



The bidi Package

Source documentation for [version 25.09.04](#)

to my Master, *Ferdowsi The Great*

If you want to report any bugs or typos and corrections in the documentation, or ask for any new features, or suggest any improvements, or ask any questions about the package, then please use the issue tracker:

<https://github.com/xepersian/bidi/issues>

In doing so, please always explain your issue well enough, and always include a minimal working example showing the issue.

You may also have conversations, ask questions and post answers without opening issues using the Discussions space:

<https://github.com/xepersian/bidi/discussions>

The announcements for the new releases of the package will also appear in the Discussions space under the Announcements category.

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The *bid*i Package

Bidirectional typesetting with plain $\mathrm{T}_{\mathrm{E}}\mathrm{X}$ and $\mathrm{L}^{\mathrm{A}}\mathrm{T}_{\mathrm{E}}\mathrm{X}$ formats in Xe $\mathrm{T}_{\mathrm{E}}\mathrm{X}$ and Lua $\mathrm{T}_{\mathrm{E}}\mathrm{X}$ engines

Source documentation for [version 25.09.04](#)

Vafa Khalighi*

September 4, 2025

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*Thanks to the `bid`i-tex GitHub organization consisted of David Carlisle and other members of the $\mathrm{L}^{\mathrm{A}}\mathrm{T}_{\mathrm{E}}\mathrm{X}$ team for maintaining the package in the period 2018–2020.

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1 File amsart-xetex-bidi.def

```

1 \ProvidesFile{amsart-xetex-bidi.def}[2017/08/09 v1.1 bidi adaptations for amsart class for X
2 \def\tocline#1#2#3#4#5#6#7{\relax
3   \ifnum #1>\c@tocdepth % then omit
4   \else
5     \par \addpenalty\@secpenalty\addvspace{#2}%
6     \begingroup \hyphenpenalty\@M
7     \@ifempty{#4}{%
8       \@tempdima\csname r@tocindent\number#1\endcsname\relax
9     }{%
10      \@tempdima#4\relax
11    }%
12    \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\
13    \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
14    #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
15    \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
16    \nobreak
17  \endgroup
18 \fi}
19 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
20 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
21 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
22 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
23 \def\part{\@startsection{part}{0}%
24   \z@{\linespacing\@plus\linespacing}{.5\linespacing}%
25   {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
26 \def\right@footnoterule{%
27   \kern-.4\p@
28   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
29   \kern11\p@\kern-\footnotesep}
30 \def\left@footnoterule{\kern-.4\p@
31   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
32
33
34 \long\def\@footnotetext#1{%
35   \insert\footins{%
36     \if@RTL\footnote\@RTLtrue\else\@RTLfalse\fi%
37     \reset@font%
38     \bidi@footnotetext@font% \normalfont\footnotesize
39     \interlinepenalty\interfootnotelinepenalty
40     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
41     \floatingpenalty\@MM \hsize\columnwidth
42     \@parboxrestore \parindent\normalparindent \sloppy
43     \protected@edef\@currentlabel{%
44       \csname p@footnote\endcsname\@thefnmark}%
45     \@makefnmark%
46     \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
47
48 \long\def\@RTLfootnotetext#1{%
49   \insert\footins{%
50     \@RTLtrue%
51     \reset@font%
52     \bidi@RTLfootnotetext@font% \normalfont\footnotesize

```



```

53 \interlinepenalty\interfootnotelinepenalty
54 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
55 \floatingpenalty\@MM \hsize\columnwidth
56 \@parboxrestore \parindent\normalparindent \sloppy
57 \protected@edef\@currentlabel{%
58 \csname p@footnote\endcsname\@thefnmark}%
59 \@makefnmark%
60 \rule{z@\footnotesep\ignorespaces#1\unskip\strut\par}}
61
62
63
64 \long\def\@LTRfootnotetext#1{%
65 \insert\footins{%
66 \@RTLfalse%
67 \reset@font%
68 \bidi@LTRfootnotetext@font% \normalfont\footnotesize
69 \interlinepenalty\interfootnotelinepenalty
70 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
71 \floatingpenalty\@MM \hsize\columnwidth
72 \@parboxrestore \parindent\normalparindent \sloppy
73 \protected@edef\@currentlabel{%
74 \csname p@footnote\endcsname\@thefnmark}%
75 \@makefnmark%
76 \rule{z@\footnotesep\ignorespaces#1\unskip\strut\par}}}
77
78
79 \footdir@temp\footdir@ORG@bidi@amsart@footnotetext\@footnotetext{\bidi@footdir@footnote}%
80 \footdir@temp\footdir@ORG@bidi@amsart@RTLfootnotetext\@RTLfootnotetext{R}%
81 \footdir@temp\footdir@ORG@bidi@amsart@LTRfootnotetext\@LTRfootnotetext{L}%
82
83 \renewenvironment{thebibliography}[1]{%
84 \@bibtitlestyle
85 \normalfont\bibliofont\labelsep .5em\relax
86 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
87 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
88 \bidi@thebibliography@font@hook%
89 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
90 \leftmargin\labelwidth \advance\leftmargin\labelsep
91 \usecounter{enumiv}}%
92 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
93 \sfcode`\.=\@m
94 }{%
95 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
96 \endlist
97 }
98 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
99 \columnseprule{z@ \columnsep 35\p@
100 \@indextitlestyle
101 \thispagestyle{plain}%
102 \let\item\@idxitem
103 \parindent\z@ \parskip\z@\@plus.3\p@\relax
104 \if@RTL\raggedleft\else\raggedright\fi
105 \hyphenpenalty\@M
106 \footnotesize}

```



```

107 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
108 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
109 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
110 \def\maketitle{\par
111   \@topnum\z@ % this prevents figures from falling at the top of page 1
112   \@setcopyright
113   \thispagestyle{firstpage}% this sets first page specifications
114   \uppercase\nonmath\shorttitle
115   \ifx\@empty\shortauthors \let\shortauthors\shorttitle
116   \else \andify\shortauthors
117   \fi
118   \@maketitle@hook
119   \begingroup
120   \@maketitle
121   \toks@{\exp{\shortauthors}\@temptokena\exp{\shorttitle}}%
122   \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
123   \edef\@tempa{%
124     \@nx\markboth{\the\toks4
125       \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
126   \@tempa
127   \endgroup
128   \c@footnote\z@
129   \cleartopmattertags
130 }

```

2 File adjmulticol-xetex-bidi.def

```

131 \ProvidesFile{adjmulticol-xetex-bidi.def}[2015/04/25 v0.1 bidi adaptations for adjmulticol p
132 \def\adjmulticols#1#2#3{\col@number#1\relax
133   \def\@tempa{#2}%
134   \ifx\@tempa\@empty\adjmc@inner\z@\else\adjmc@inner#2\fi
135   \def\@tempa{#3}%
136   \ifx\@tempa\@empty\adjmc@outer\z@\else\adjmc@outer#3\fi
137   \ifnum\col@number<\@ne
138     \PackageWarning{adjmulticol}%
139       {Using '\number\col@number'
140        columns doesn't seem a good idea.^^J
141        I therefore use one columns instead}%
142     \col@number\@ne\fi
143   \ifnum\col@number>10
144     \PackageError{adjmulticol}%
145       {Too many columns}%
146       {Current implementation doesn't
147        support more than 10 columns.%
148       \MessageBreak
149        I therefore use 10 columns instead}%
150     \col@number10 \fi
151   \ifx\@footnotetext\mult@footnotetext\else
152     \let\orig@footnotetext\@footnotetext
153     \let\@footnotetext\mult@footnotetext
154   \fi
155   \ifx\@LTRfootnotetext\mult@LTRfootnotetext\else
156     \let\orig@LTRfootnotetext\@LTRfootnotetext
157     \let\@LTRfootnotetext\mult@LTRfootnotetext

```




```

158     \fi
159     \ifx\@RTLfootnotetext\mult@RTLfootnotetext\else
160         \let\orig@RTLfootnotetext\@RTLfootnotetext
161         \let\@RTLfootnotetext\mult@RTLfootnotetext
162     \fi
163     \@ifnextchar[\adjmult@cols{\adjmult@cols[]}]{}
164 \let\adjmc@page@sofar@orig=\page@sofar

```

3 File algorithm2e-xetex-bidi.def

```

165 \ProvidesFile{algorithm2e-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for algorithm2e p
166 \expandafter\ifx\csgname algocf@within\endcsname\relax% if \algocf@within doesn't exist
167 \else%
168     \else
169 \fi
170 \renewcommand\thealgocf{\csgname the\algocf@within\endcsname\@SepMark\@arabic\c@algocf}%
171 \fi
172 \ApplyPatchIfPackageLoadedF{color}{%
173     \bidi@patchcmd{\@algocf@start}{\bgroup}{%
174         \bgroup
175         \if@RTL
176             \beginR
177         \else
178             \beginL
179         \fi
180     }{}{}
181     \bidi@patchcmd{\@algocf@finish}{\egroup\end{lrbox}}{%
182         \if@RTL
183             \endR
184         \else
185             \endL
186         \fi
187     \egroup
188     \end{lrbox}%
189 }{}{}
190 \bidi@patchcmd{\algocf@makecaption}{\hbox}{%
191     \if@RTL
192         \hboxR
193     \else
194         \hboxL
195     \fi
196 }{}{}
197 }{}{}
198 }
199
200 \@ifpackagewith{algorithm2e}{algonl}{%
201 \renewcommand\theAlgoLine{\expandafter\csgname the\algocf@float\endcsname\@SepMark\arabic{A
202 }{}
203 }{}
204
205 \@ifpackagewith{algorithm2e}{algotpart}{\renewcommand{\algocf@within}{part}}{}
206
207 \@ifpackagewith{algorithm2e}{algotchapter}{\renewcommand{\algocf@within}{chapter}}{}
208
209 \@ifpackagewith{algorithm2e}{algotsection}{\renewcommand{\algocf@within}{section}}{}

```

4 File amsbook-xetex-bidi.def



```

206 \ProvidesFile{amsbook-xetex-bidi.def}[2017/08/09 v1.2 bidi adaptations for amsbook class for
207 \def\tocline#1#2#3#4#5#6#7{\relax
208   \ifnum #1>\c@tocdepth % then omit
209   \else
210     \par \addpenalty\@secpenalty\addvspace{#2}%
211     \begingroup \hyphenpenalty\@M
212     \@ifempty{#4}{%
213       \@tempdima\c@tocindent\number#1\endcsname\relax
214     }{%
215       \@tempdima#4\relax
216     }%
217     \parindent\z@ \if@RTL\rightskip\else\leftskip\fi#3\relax \advance\if@RTL\rightskip\else\leftskip\fi
218     \if@RTL\leftskip\else\rightskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
219     #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
220     \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
221     \nobreak
222   \endgroup
223 \fi}
224 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
225 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
226 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
227 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
228 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
229   \columnseprule\z@ \columnsep 35\p@
230   \@indextitlestyle
231   \thispagestyle{plain}%
232   \let\item\@idxitem
233   \parindent\z@ \parskip\z@\@plus.3\p@\relax
234   \if@RTL\raggedleft\else\raggedright\fi
235   \hyphenpenalty\@M
236   \footnotesize}
237 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
238 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
239 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
240 \def\right@footnoterule{%
241   \kern-.4\p@
242   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
243   \kern11\p@\kern-\footnotesep}
244 \def\left@footnoterule{\kern-.4\p@
245   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
246
247 \long\def\@footnotetext#1{%
248   \insert\footins{%
249     \if@RTL\footnote\@RTLtrue\else\@RTLfalse\fi%
250     \reset@font%
251     \bidi@footnotetext@font% \normalfont\footnotesize
252     \interlinepenalty\interfootnotelinepenalty
253     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
254     \floatingpenalty\@MM \hsize\columnwidth
255     \@parboxrestore \parindent\normalparindent \sloppy
256     \protected@edef\@currentlabel{%
257       \csname p@footnote\endcsname\@thefnmark}%
258     \@makefntext{%
259       \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}

```



```

260
261 \long\def\@RTLfootnotetext#1{%
262   \insert\footins{%
263     \@RTLtrue%
264     \reset@font%
265     \bidi@RTLfootnotetext@font% \normalfont\footnotesize
266     \interlinepenalty\interfootnotelinepenalty
267     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
268     \floatingpenalty\@MM \hsize\columnwidth
269     \@parboxrestore \parindent\normalparindent \sloppy
270     \protected@edef\@currentlabel{%
271       \csname p@footnote\endcsname\@thefnmark}%
272     \@makefnfntext{%
273       \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
274
275
276 \long\def\@LTRfootnotetext#1{%
277   \insert\footins{%
278     \@RTLfalse%
279     \reset@font%
280     \bidi@LTRfootnotetext@font% \normalfont\footnotesize
281     \interlinepenalty\interfootnotelinepenalty
282     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
283     \floatingpenalty\@MM \hsize\columnwidth
284     \@parboxrestore \parindent\normalparindent \sloppy
285     \protected@edef\@currentlabel{%
286       \csname p@footnote\endcsname\@thefnmark}%
287     \@makefnfntext{%
288       \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
289
290
291
292 \footdir@temp\footdir@ORG@bidi@amsbook@footnotetext\@footnotetext{\bidi@footdir@footnote}%
293 \footdir@temp\footdir@ORG@bidi@amsbook@RTLfootnotetext\@RTLfootnotetext{R}%
294 \footdir@temp\footdir@ORG@bidi@amsbook@LTRfootnotetext\@LTRfootnotetext{L}%
295
296 \renewenvironment{thebibliography}[1]{%
297   \@bibtitlestyle
298   \normalfont\bibliofont\labelsep .5em\relax
299   \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
300   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
301   \bidi@thebibliography@font@hook%
302   \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
303     \leftmargin\labelwidth \advance\leftmargin\labelsep
304     \usecounter{enumiv}}%
305   \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
306   \sfcode`\.=\@m
307 }{%
308   \def\@noitemerr{\@latex@warning{Empty 'thebibliography' environment}}%
309   \endlist
310 }
311 \def\@makechapterhead#1{\global\topskip 7.5pc\relax
312   \begingroup
313   \fontsize{\@xivpt}{18}\bfseries\centering

```



```

314 \ifnum\c@secnumdepth>\m@ne
315 \leavevmode \hskip-\if@RTL\rightskip\else\leftskip\fi
316 \rlap{\vbox to\z@{\vss
317 \centerline{\normalsize\mdseries
318 \uppercase\@xp{\chaptername}\enspace\thechapter}
319 \vskip 3pc}}\hskip\if@RTL\rightskip\else\leftskip\fi\fi
320 #1\par \endgroup
321 \skip@34\p@ \advance\skip@-\normalbaselineskip
322 \vskip\skip@ }
323 \def\maketitle{\par
324 \@topnum\z@ % this prevents figures from falling at the top of page 1
325 \begingroup
326 \@maketitle
327 \endgroup
328 \c@footnote\z@
329 \def\do##1{\let##1\relax}%
330 \do\maketitle \do\@maketitle \do\title \do\@xtitle \do\@title
331 \do\author \do\@xauthor \do\address \do\@xaddress
332 \do\email \do\@xemail \do\curraddr \do\@xcurraddr
333 \do\dedicatory \do\@dedicatory \do\thanks \do\thankses
334 \do\keywords \do\@keywords \do\subjclass \do\@subjclass
335 }

```

5 File amsmath-xetex-bidi.def

```

336 \ProvidesFile{amsmath-xetex-bidi.def}[2020/05/16 v1.2 bidi adaptations for amsmath package f
337 \let\veqno=\eqno
338 \iftagsleft@ \let\veqno=\leqno \fi
339 \renewcommand{\numberwithin}[3][\arabic]{%
340 \ifundefined{c@#2}{\nocounterr{#2}}{%
341 \ifundefined{c@#3}{\nocnterr{#3}}{%
342 \@addtoreset{#2}{#3}%
343 \@xp\xdef\csname the#2\endcsname{%
344 \@xp\@nx\csname the#3\endcsname \@nx\@SepMark\@nx#1{#2}}}%
345 }
346 \def\tagform@#1{\maketag@@@{\if@nonlatin\beginR\fi(\kern\z@\ignorespaces#1\unskip\@italicco
347
348 \bidi@patchcmd\math@cr@@@align\place@tag{%
349 \place@tag
350 \else
351 \place@tag
352 }{}{}
353

```

6 File amstext-xetex-bidi.def

```

354 \ProvidesFile{amstext-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for amstext package f
355 \def\textdef@#1#2#3{\hbox{%
356 \everymath{#1}%
357 \let\f@size#2\selectfont
358 \if@nonlatin\beginR\fi#3\if@nonlatin\endR\fi}}}

```

7 File amsthm-xetex-bidi.def



```

359 \ProvidesFile{amsthm-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for amsthm package for
360 \def\@thmcountersep{\@SepMark}

```

8 File array-xetex-bidi.def

```

361 \ProvidesFile{array-xetex-bidi.def}[2025/09/04 v0.6 bidi adaptations for array package for X
362 \def\@testpach{\@chclass
363 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
364 \ifnum \@lastchclass=7 5 \else
365 \ifnum \@lastchclass=8 \tw@ \else
366 \ifnum \@lastchclass=9 \thr@@
367 \else \z@
368 \ifnum \@lastchclass = 10 \else
369 \edef\@nextchar{\expandafter\string\@nextchar}%
370 \@chnum
371 \if \@nextchar c\z@ \else
372 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
373 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
374 \z@ \@chclass
375 \if \@nextchar |\@ne \else
376 \if \@nextchar !6 \else
377 \if \@nextchar @7 \else
378 \if \@nextchar <8 \else
379 \if \@nextchar >9 \else
380 10
381 \@chnum
382 \if \@nextchar m\thr@@ \else
383 \if \@nextchar p4 \else
384 \if \@nextchar b5 \else
385 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi
386 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
387 \def\@tabular{%
388 \leavevmode
389 \UseTaggingSocket{tbl/hmode/begin}%
390 \hbox \bgroup\if@RTLtab\beginR \fi
391 \MathCollectFalse$\MathCollectTrue
392 \col@sep\tabcolsep \let\d@llarbegin\begin\group
393 \let\d@llarend\end\group
394 \@kernel@tabular@init
395 \@tabarray}
396 \def\endtabular{\endarray\m@th $\if@RTLtab\endR\fi\egroup
397 \UseTaggingSocket{tbl/hmode/end}%
398 }
399 \expandafter\let\csname endtabular*\endcsname=\endtabular
400 \ExplSyntaxOn
401 \def\@array[#1]#2{
402 \@tempdima \ht \strutbox
403 \advance \@tempdima by\extrarowheight
404 \setbox \@arstrutbox \hbox{\vrule
405 \@height \arraystretch \@tempdima
406 \@depth \arraystretch \dp \strutbox
407 \@width \z@}%
408 \tbl_save_outer_table_cols:
409 \begin\group

```



```

410 \@mkpream{#2}%
411 \tbl_count_table_cols:
412 \xdef\@preamble{
413   \noexpand \ar@ialign
414   \@halignto
415   \bgroup \@arstrut
416   \UseTaggingSocket{tbl/row/begin}
417   \tbl_init_cell_data_for_row:
418   \@preamble
419   \tabskip \z@ \cr}
420 \endgroup
421 \@arrayleft
422 \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi \fi
423 \bgroup
424 \let \@sharp ##\let \protect \relax
425 \lineskip \z@
426 \baselineskip \z@
427 \mathsurround \z@
428 \let\\\@arraycr \let\tabularnewline\\\let\par\@empty
429 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
430 \UseTaggingSocket{tbl/init}
431 \@preamble
432 }
433 \ExplSyntaxOff
434 \let\@array\@array
435 \ExplSyntaxOn
436 \def\endarray {
437   \tbl_crcr:n{endarray}
438   \tag_socket_use_expandable:n { math/luamml/array/save }
439   \egroup
440   \tag_socket_use:n { tbl/finalize }
441   \tbl_restore_outer_cell_data:
442   \if@RTLtab\egroup\endR\egroup\fi
443   \egroup
444   \tag_socket_use:n { math/luamml/array/finalize }
445   \@arrayright \gdef\@preamble{}%
446 }
447 \ExplSyntaxOff
448 \def\array{\col@sep\arraycolsep
449   \def\d@llarbegin{$\tag_socket_use:n { math/luamml/array/initcol }}
450   \def\d@llarend
451   {
452     \tag_socket_use:nn { math/luamml/save/nn }{{}{mtd}}
453     $
454     \tag_socket_use:nn { math/luamml/array/finalizecol}{\the\@chnum}
455   }
456   \def\@halignto{}%
457   \@RTLtabfalse
458   \@tabarray}

```

9 File article-xetex-bidi.def

```

459 \ProvidesFile{article-xetex-bidi.def}[2025/09/04 v1.0 bidi adaptations for standard article
460 \IfClassLoadedT{svmult}{\endinput}

```



```

461 \if@titlepage
462   \renewcommand\maketitle{\begin{titlepage}%
463     \let\footnotesize\small
464     \let\right@footnoterule\relax
465     \let\left@footnoterule\relax
466     \let\textwidth@footnoterule\relax
467     \let \footnote \thanks
468     \let \LTRfootnote \LTRthanks
469     \let \RTLfootnote \RTLthanks
470     \null\vfil
471     \vskip 60\p@
472     \begin{center}%
473       {\LARGE \@title \par}%
474       \vskip 3em%
475       {\large
476         \lineskip .75em%
477         \begin{tabular}[t]{c}%
478           \@author
479         \end{tabular}\par}%
480       \vskip 1.5em%
481       {\large \@date \par}%           % Set date in \large size.
482     \end{center}\par
483     \@thanks
484     \vfil\null
485   \end{titlepage}%
486   \setcounter{footnote}{0}%
487   \global\let\thanks\relax
488   \global\let\LTRthanks\relax
489   \global\let\RTLthanks\relax
490   \global\let\maketitle\relax
491   \global\let\@thanks\@empty
492   \global\let\@author\@empty
493   \global\let\@date\@empty
494   \global\let\@title\@empty
495   \global\let\title\relax
496   \global\let\author\relax
497   \global\let\date\relax
498   \global\let\and\relax
499 }
500 \else
501 \renewcommand\maketitle{\par
502   \begingroup
503     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
504     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
505     \long\def\@makefntext##1{\parindent 1em\noindent
506       \hb@xt@1.8em{%
507         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
508     \if@twocolumn
509       \ifnum \col@number=\@ne
510         \@maketitle
511       \else
512         \twocolumn[\@maketitle]%
513       \fi
514     \else

```



```

515     \newpage
516     \global\@topnum\z@    % Prevents figures from going at top of page.
517     \@maketitle
518     \fi
519     \thispagestyle{plain}\@thanks
520 \endgroup
521 \setcounter{footnote}{0}%
522 \global\let\thanks\relax
523 \global\let\LTRthanks\relax
524 \global\let\RTLthanks\relax
525 \global\let\maketitle\relax
526 \global\let\@maketitle\relax
527 \global\let\@thanks\@empty
528 \global\let\@author\@empty
529 \global\let\@date\@empty
530 \global\let\@title\@empty
531 \global\let\title\relax
532 \global\let\author\relax
533 \global\let\date\relax
534 \global\let\and\relax
535 }
536 \def\@maketitle{%
537   \newpage
538   \null
539   \vskip 2em%
540   \begin{center}%
541     \let \footnote \thanks
542     \let \LTRfootnote \LTRthanks
543     \let \RTLfootnote \RTLthanks
544     {\LARGE \@title \par}%
545     \vskip 1.5em%
546     {\large
547       \lineskip .5em%
548       \begin{tabular}[t]{c}%
549         \@author
550       \end{tabular}\par}%
551     \vskip 1em%
552     {\large \@date}%
553   \end{center}%
554   \par
555   \vskip 1.5em}
556 \fi
557 \renewcommand*\l@part[2]{%
558   \ifnum \c@tocdepth >-2\relax
559     \addpenalty\@secpenalty
560     \addvspace{2.25em \@plus\p@}%
561     \setlength\@tempdima{3em}%
562     \begin{group
563       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
564       \parfillskip -\@pnumwidth
565       {\leavevmode
566         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
567       \nobreak
568       \if@compatibility

```




```

569         \global\@nobreaktrue
570         \everypar{\global\@nobreakfalse\everypar{}}}%
571     \fi
572 \endgroup
573 \fi}
574 \renewcommand*\l@section[2]{%
575     \ifnum \c@tocdepth >\z@
576         \addpenalty\@secpenalty
577         \addvspace{1.0em \@plus\p@}%
578         \setlength\@tempdima{1.5em}%
579         \begingroup
580             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
581             \parfillskip -\@pnumwidth
582             \leavevmode \bfseries
583             \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
584             \hskip -\if@RTL\rightskip\else\leftskip\fi
585             #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
586         \endgroup
587     \fi}
588 \renewcommand\left@footnoterule{%
589     \kern-3\p@
590     \hrule\@width.4\columnwidth
591     \kern2.6\p@}
592 \renewcommand\right@footnoterule{%
593     \kern-3\p@
594     \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
595     \kern2.6\p@}
596 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
597 \renewcommand\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
598 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
599 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
600 \ApplyPatchIfPackageLoaded{nameref}{%
601     \bidi@patchcmd\NR@part{%
602         \parindent \z@
603     }{%
604         \parindent \z@
605         \if@RTL\raggedleft\else\raggedright\fi
606     }{\bidi@warningnoline{Oops! patching `string\NR@part' failed}}}%
607     \bidi@patchcmd\NR@spart\raggedright{%
608         \if@RTL\raggedleft\else\raggedright\fi
609     }{\bidi@warningnoline{Oops! patching `string\NR@spart' failed}}}%
610 }{%
611     \bidi@patchcmd\@part{%
612         \parindent \z@
613     }{%
614         \parindent \z@
615         \if@RTL\raggedleft\else\raggedright\fi
616     }{\bidi@warningnoline{Oops! patching `string\@part' failed}}}%
617     \bidi@patchcmd\@spart\raggedright{%
618         \if@RTL\raggedleft\else\raggedright\fi
619     }{\bidi@warningnoline{Oops! patching `string\@spart' failed}}}%
620 }
621 \renewenvironment{thebibliography}[1]
622     {\section*{\refname}%

```



```

623 \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
624 \ifRTL\ifLTRbibitems\RTLfalse\else\fi\else\ifRTLbibitems\RTLtrue\else\fi\fi
625 \bidi@thebibliography@font@hook%
626 \list{\@biblabel{\@arabic\c@enumiv}}%
627     {\settoheight\labelwidth{\@biblabel{#1}}%
628     \leftmargin\labelwidth
629     \advance\leftmargin\labelsep
630     \@openbib@code
631     \usecounter{enumiv}%
632     \let\p@enumiv\@empty
633     \renewcommand\theenumiv{\@arabic\c@enumiv}}%
634 \sloppy
635 \clubpenalty4000
636 \@clubpenalty \clubpenalty
637 \widowpenalty4000%
638 \sfcode\.\@m}
639 {\def\@noitemerr
640     {\@latex@warning{Empty `thebibliography' environment}}}%
641 \endlist}
642 \renewenvironment{theindex}
643     {\if@twocolumn
644         \@restonecolfalse
645     \else
646         \@restonecoltrue
647     \fi
648     \columnseprule \z@
649     \columnsep 35\p@
650     \twocolumn[\section*{\indexname}]%
651     \mkboth{\MakeUppercase\indexname}%
652             {\MakeUppercase\indexname}%
653     \thispagestyle{plain}\parindent\z@
654     \parskip\z@ \@plus .3\p@\relax
655     \let\item\@idxitem}
656     {\if@restonecol\onecolumn\else\clearpage\fi}

```

10 File artikel1-xetex-bidi.def

```

657 \ProvidesFile{artikel1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel1 class f
658 \renewenvironment{theindex}{%
659     \if@twocolumn
660         \@restonecolfalse
661     \else
662         \@restonecoltrue
663     \fi
664     \columnseprule \z@
665     \columnsep 35\p@
666     \twocolumn[\section*{\indexname}]%
667     \mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
668     \thispagestyle{plain}\parindent\z@
669     \parskip\z@ \@plus .3\p@\relax
670     \let\item\@idxitem
671 }{%
672     \if@restonecol\onecolumn\else\clearpage\fi}
673 \renewcommand*\head@style{%

```



```

674 \interlinepenalty \@M
675 \hyphenpenalty=\@M \exhyphenpenalty=\@M
676 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
677 \if@titlepage
678 \renewenvironment{abstract}{%
679 \titlepage
680 \null\vfil
681 \section*{\SectFont\abstractname}
682 \noindent\ignorespaces}
683 {\par\vfil\null\endtitlepage}
684 \else
685 \renewenvironment{abstract}{%
686 \if@twocolumn
687 \section*{\abstractname}%
688 \else
689 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
690 \section*{\small\SectFont\abstractname}%
691 \noindent\ignorespaces
692 \fi}
693 {\if@twocolumn\else\par\egroup\fi}
694 \fi
695 \renewcommand*\@regtocline[3]{%
696 \ifnum #1>\c@tocdepth
697 \else
698 \vskip\z@ \@plus.2\p@
699 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
700 \if@RTL\rightskip\else\leftskip\fi\unitindent
701 \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
702 \parfillskip\z@
703 \@tempdima\unitindent
704 \parindent\z@
705 \leavevmode
706 \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
707 \hskip 1em \nobreak{\slshape #3}\par
708 }%
709 \fi}
710 \if@oldtoc
711 \renewcommand*\l@part[2]{%
712 \ifnum \c@tocdepth >-2\relax
713 \addpenalty\@secpenalty
714 \addvspace{2.25em \@plus\p@}%
715 \begingroup
716 \setlength\@tempdima{3em}%
717 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
718 \parfillskip -\@pnumwidth
719 {\leavevmode
720 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
721 \nobreak
722 \if@compatibility
723 \global\@nobreaktrue
724 \everypar{\global\@nobreakfalse\everypar{}}%
725 \fi
726 \endgroup
727 \fi}

```



```

728 \else
729   \renewcommand*\l@part{%
730     \ifnum \c@tocdepth >-2\relax
731       \addpenalty\@secpenalty
732       \addvspace{2.25em \@plus \p@}%
733       \@regtocline{0}%
734     \fi}
735 \fi
736 \if@oldtoc
737 \renewcommand*\l@section[2]{%
738   \addpenalty\@secpenalty
739   \addvspace{1.0em \@plus \p@}%
740   \setlength\@tempdima{1.5em}%
741   \begingroup
742   \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
743   \parfillskip -\@pnumwidth
744   \leavevmode \bfseries
745   \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
746   \hskip -\if@RTL\rightskip\else\leftskip\fi
747   #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
748   \endgroup}
749 \else
750   \renewcommand*\l@section{\@regtocline{1}}
751 \fi
752 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
753 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
754 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
755 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
756 \renewenvironment{thebibliography}[1]
757   {\section*\@refname}%
758   \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
759   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
760   \bidi\@thebibliography@font@hook%
761   \list{\@biblabel{\@arabic\c@enumiv}}%
762     {\settowidth\labelwidth{\@biblabel{#1}}%
763     \leftmargin\labelwidth
764     \advance\leftmargin\labelsep
765     \@openbib@code
766     \usecounter{enumiv}%
767     \let\p@enumiv\@empty
768     \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
769   \sloppy\clubpenalty4000\widowpenalty4000%
770   \sfcode\.\@m}
771   {\def\@noitemerr
772     {\@latex@warning{Empty `thebibliography' environment}}}%
773   \endlist}
774 \renewcommand*\left@footnoterule{%
775   \kern-3\p@
776   \kern.5\baselineskip
777   \hrule\@width\unitindent
778   \kern.4\baselineskip
779 }
780 \renewcommand*\right@footnoterule{%
781   \kern-3\p@

```



```

782 \kern.5\baselineskip
783 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
784 \kern.4\baselineskip}
785 \if@titlepage
786 \renewcommand*{\TitleFont{\rmfamily}
787 \renewcommand*{\maketitle{%
788 \begin{titlepage}%
789 \let\footnotesize\small
790 \let\right@footnoterule\relax
791 \let\left@footnoterule\relax
792 \let\textwidth\footnoterule\relax
793 \let \footnote \thanks
794 \long\def\@makefntext##1{\parindent\z@
795 \def\labelitemi{\textendash}\@revlabeltrue
796 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
797 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
798 \if@compatibility\setcounter{page}{0}\fi
799 \null\vfil
800 \vskip 60\p@
801 \begin{center}%
802 \TitleFont
803 {\LARGE \def\\{\penalty -\@M}
804 \if@allcaps
805 \expandafter\uc@nothanks\@title\thanks\relax
806 \else
807 \@title
808 \fi\par}%
809 \vskip 3em%
810 {\large
811 \lineskip .75em \parindent\z@
812 \begin{tabular}[t]{c}%
813 \if@allcaps
814 \expandafter\uc@authornothanks\@author\and\relax
815 \else
816 \@author
817 \fi
818 \end{tabular}\par}%
819 \vskip 1.5em%
820 {\large
821 \if@allcaps
822 \uppercase\expandafter{\@date}%
823 \else
824 \@date
825 \fi\par}%
826 \end{center}\par
827 \@thanks
828 \vfil\null
829 \end{titlepage}%
830 \setcounter{footnote}{0}%
831 \global\let\thanks\relax
832 \global\let\maketitle\relax
833 \global\let\@thanks\@empty
834 \global\let\@author\@empty
835 \global\let\@title\@empty

```



```

836 \global\let\@date\@empty
837 \global\let\title\relax
838 \global\let\author\relax
839 \global\let\date\relax
840 \global\let\and\relax
841 }
842 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
843 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
844 \futurelet\@tempa\uc@ax}
845 \def\uc@ax{%
846 \ifx\@tempa\relax
847 \else
848 \\\andname \\\expandafter\uc@authornothanks
849 \fi}
850 \def\uc@tx{\ifx\@tempa\relax
851 \else \expandafter\uc@ty \fi}
852 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
853 \else
854 \renewcommand*\maketitle{\par
855 \begingroup
856 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
857 \def\@makefnmark{\rlap{%
858 \@textsuperscript{\normalfont\@thefnmark}}}%
859 \long\def\@makefntext{\@xmakefntext{%
860 \@textsuperscript{\normalfont\@thefnmark}}}%
861 \if@twocolumn
862 \ifnum \col@number=\@ne
863 \@maketitle
864 \else
865 \twocolumn[\@maketitle]%
866 \fi
867 \else
868 \newpage
869 \global\@topnum\z@
870 \@maketitle
871 \fi
872 \thispagestyle{plain}\@thanks
873 \endgroup
874 \setcounter{footnote}{0}%
875 \global\let\thanks\relax
876 \global\let\maketitle\relax
877 \global\let\@maketitle\relax
878 \global\let\@thanks\@empty
879 \global\let\@author\@empty
880 \global\let\@title\@empty
881 \global\let\@date\@empty
882 \global\let\title\relax
883 \global\let\author\relax
884 \global\let\date\relax
885 \global\let\and\relax
886 }
887 \def\@maketitle{%
888 \newpage
889 \null

```



```

890 \vskip 2em%
891 \begin{center}%
892   \let \footnote \thanks
893   {\LARGE \TitleFont \@title \par}%
894   \vskip 1.5em%
895   {\large \TitleFont
896     \lineskip .5em%
897     \begin{tabular}[t]{c}%
898       \@author
899     \end{tabular}\par}%
900   \vskip 1em%
901   {\large \TitleFont \@date}%
902 \end{center}%
903 \par
904 \vskip 1.5em}
905 \fi

```

11 File artikel2-xetex-bidi.def

```

906 \ProvidesFile{artikel2-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel2 class f
907 \renewenvironment{theindex}{%
908   \if@twocolumn
909     \@restonecolfalse
910   \else
911     \@restonecoltrue
912   \fi
913   \columnseprule \z@
914   \columnsep 35\p@
915   \twocolumn[\section*{\indexname}]%
916   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
917   \thispagestyle{plain}\parindent\z@
918   \parskip\z@ \@plus .3\p@\relax
919   \let\item\idxitem
920 }{%
921   \if@restonecol\onecolumn\else\clearpage\fi}
922 \renewcommand*{\regtocline}[3]{%
923   \ifnum #1>\c@tocdepth
924   \else
925     \vskip\z@\@plus.2\p@
926     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
927       \if@RTL\righskip\else\leftskip\fi\unitindent
928       \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
929       \parfillskip\z@
930       \@tempdima\unitindent
931       \advance\@tempdima by \othermargin
932       \parindent\z@
933       \leavevmode
934       \hbox{} \hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
935       \hskip 1em \nobreak{\slshape #3}\par
936     }%
937   \fi}
938 \if@oldtoc
939 \renewcommand*{\l@section}[2]{%
940   \addpenalty\@secpenalty

```



```

941 \addvspace{1.0em \@plus\p@}%
942 \setlength\@tempdima{1.5em}%
943 \begingroup
944 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
945 \parfillskip -\@pnumwidth
946 \leavevmode \bfseries
947 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
948 \hskip -\if@RTL\rightskip\else\leftskip\fi
949 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
950 \endgroup}
951 \else
952 \renewcommand*\l@section{\@regtocline{1}}
953 \fi
954 \if@oldtoc
955 \renewcommand*\l@part[2]{%
956 \ifnum \c@tocdepth >-2\relax
957 \addpenalty\@secpenalty
958 \addvspace{2.25em \@plus\p@}%
959 \begingroup
960 \setlength\@tempdima{3em}%
961 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
962 \parfillskip -\@pnumwidth
963 {\leavevmode
964 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
965 \nobreak
966 \if@compatibility
967 \global\@nobreaktrue
968 \everypar{\global\@nobreakfalse\everypar{}}%
969 \fi
970 \endgroup
971 \fi}
972 \else
973 \renewcommand*\l@part{%
974 \ifnum \c@tocdepth >-2\relax
975 \addpenalty\@secpenalty
976 \addvspace{2.25em \@plus\p@}%
977 \@regtocline{0}%
978 \fi}
979 \fi
980 \renewcommand*\head@style{%
981 \interlinepenalty \@M
982 \hyphenpenalty=\@M \exhyphenpenalty=\@M
983 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
984 \if@titlepage
985 \renewenvironment{abstract}{%
986 \titlepage
987 \null\vfil
988 \section*{\SectFont\abstractname}%
989 \noindent\ignorespaces}
990 {\par\vfil\null\endtitlepage}
991 \else
992 \renewenvironment{abstract}{%
993 \if@twocolumn
994 \section*{\abstractname}%

```




```

995     \else
996     \section*{\hskip\unitindent\small\SectFont\abstractname}%
997     \list*{\setlength\listparindent{\unitindent}%
998           \setlength\parindent    {\z@}%
999           \setlength\leftmargin   {\unitindent}%
1000          \setlength\rightmargin  {\unitindent}%
1001          \setlength\parsep       {\z@}}%
1002     \item[]%
1003     \fi}
1004     {\if@twocolumn\else\par\endlist\fi}
1005 \fi
1006 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
1007 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1008 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1009 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1010 \renewcommand*\left@footnoterule{%
1011   \kern-3\p@
1012   \hrule\@width 3\unitindent
1013   \kern 2.6\p@
1014 }
1015 \renewcommand*\right@footnoterule{%
1016   \kern-3\p@
1017   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-3\unitindent\relax \hrulefill }
1018   \kern 2.6\p@}
1019 \renewenvironment{thebibliography}[1]
1020   {\section*{\refname}%
1021    \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1022    \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
1023    \bidi@thebibliography@font@hook%
1024    \list*{\@biblabel{\@arabic\c@enumiv}}%
1025          {\settowidth\labelwidth{\@biblabel{#1}}%
1026           \leftmargin\labelwidth
1027           \advance\leftmargin\labelsep
1028           \@openbib@code
1029           \usecounter{enumiv}%
1030           \let\p@enumiv\@empty
1031           \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1032   \sloppy\clubpenalty4000\widowpenalty4000%
1033   \sfcode`.\@m}
1034   {\def\@noitemerr
1035    {\@latex@warning{Empty `thebibliography' environment}}}%
1036   \endlist}
1037 \if@titlepage
1038 \renewcommand*\TitleFont{\rmfamily}
1039 \renewcommand*\maketitle{%
1040   \begin{titlepage}%
1041     \let\footnotesize\small
1042     \let\right@footnoterule\relax
1043     \let\left@footnoterule\relax
1044     \let\textwidth\footnoterule\relax
1045     \let \footnote \thanks
1046     \long\def\@makefntext##1{\parindent\z@
1047       \def\labelitemi{\textendash}\@revlabeltrue
1048       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}

```



```

1049 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1050 \if@compatibility\setcounter{page}{0}\fi
1051 \null\vfil
1052 \vskip 60\p@
1053 \begin{center}%
1054 \TitleFont
1055 {\LARGE \def\{\{\penalty -\@M}
1056 \if@allcaps
1057 \expandafter\uc@nothanks\@title\thanks\relax
1058 \else
1059 \@title
1060 \fi\par}%
1061 \vskip 3em%
1062 {\large
1063 \lineskip .75em \parindent\z@
1064 \begin{tabular}[t]{c}%
1065 \if@allcaps
1066 \expandafter\uc@authornothanks\@author\and\relax
1067 \else
1068 \@author
1069 \fi
1070 \end{tabular}\par}%
1071 \vskip 1.5em%
1072 {\large
1073 \if@allcaps
1074 \uppercase\expandafter{\@date}%
1075 \else
1076 \@date
1077 \fi\par}%
1078 \end{center}\par
1079 \@thanks
1080 \vfil\null
1081 \end{titlepage}%
1082 \setcounter{footnote}{0}%
1083 \global\let\thanks\relax
1084 \global\let\maketitle\relax
1085 \global\let\@thanks\@empty
1086 \global\let\@author\@empty
1087 \global\let\@title\@empty
1088 \global\let\@date\@empty
1089 \global\let\title\relax
1090 \global\let\author\relax
1091 \global\let\date\relax
1092 \global\let\and\relax
1093 }
1094 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1095 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1096 \futurelet\@tempa\uc@ax}
1097 \def\uc@ax{%
1098 \ifx\@tempa\relax
1099 \else
1100 \ \andname \ \ \expandafter\uc@authornothanks
1101 \fi}
1102 \def\uc@tx{\ifx\@tempa\relax

```



```

1103 \else \expandafter\uc@ty \fi}
1104 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1105 \else
1106 \renewcommand*\maketitle{\par
1107 \begin{group}
1108 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1109 \long\def\@makefntext##1{\parindent\z@
1110 \def\labelitemi{\textendash}%
1111 \leavevmode\hb@xt@.5\unitindent{%
1112 \@textsuperscript{\normalfont\@thefnmark}\hfil}##1}
1113 \if@twocolumn
1114 \ifnum \col@number=\@ne
1115 \maketitle
1116 \else
1117 \twocolumn[\maketitle]%
1118 \fi
1119 \else
1120 \newpage
1121 \global\@topnum\z@
1122 \maketitle
1123 \fi
1124 \thispagestyle{plain}\@thanks
1125 \endgroup
1126 \setcounter{footnote}{0}%
1127 \global\let\thanks\relax
1128 \global\let\maketitle\relax
1129 \global\let\@maketitle\relax
1130 \global\let\@thanks\@empty
1131 \global\let\@author\@empty
1132 \global\let\@title\@empty
1133 \global\let\@date\@empty
1134 \global\let\title\relax
1135 \global\let\author\relax
1136 \global\let\date\relax
1137 \global\let\and\relax
1138 }
1139 \def\@maketitle{%
1140 \newpage
1141 \null
1142 \vskip 2em%
1143 \begin{center}%
1144 \let \footnote \thanks
1145 {\LARGE \TitleFont \@title \par}%
1146 \vskip 1.5em%
1147 {\large \TitleFont
1148 \lineskip .5em%
1149 \begin{tabular}[t]{c}%
1150 \@author
1151 \end{tabular}\par}%
1152 \vskip 1em%
1153 {\large \TitleFont \@date}%
1154 \end{center}%
1155 \par
1156 \vskip 1.5em}

```



1157 \fi

12 File artikel3-xetex-bidi.def

```
1158 \ProvidesFile{artikel3-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for artikel3 class f
1159 \renewenvironment{theindex}{%
1160   \if@twocolumn
1161     \@restonecolfalse
1162   \else
1163     \@restonecoltrue
1164   \fi
1165   \columnseprule \z@
1166   \columnsep 35\p@
1167   \twocolumn[section*{\indexname}]%
1168   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
1169   \thispagestyle{plain}\parindent\z@
1170   \parskip\z@ \@plus .3\p@\relax
1171   \let\item\@idxitem
1172 }{%
1173   \if@restonecol\onecolumn\else\clearpage\fi}
1174 \renewcommand*{\head@style}{%
1175   \interlinepenalty \@M
1176   \hyphenpenalty=\@M \exhyphenpenalty=\@M
1177   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
1178 \renewcommand*{\regtocline}[3]{%
1179   \ifnum #1>\c@tocdepth
1180   \else
1181     \vskip\z@ \@plus.2\p@
1182     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
1183     \if@RTL\rightskip\else\leftskip\fi\unitindent
1184     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
1185     \parfillskip\z@
1186     \@tempdima\unitindent
1187     \parindent\z@
1188     \leavevmode
1189     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
1190     \hskip 1em \nobreak{\slshape #3}\par
1191   }%
1192 \fi}
1193 \if@oldtoc
1194 \renewcommand*{\l@part}[2]{%
1195   \ifnum \c@tocdepth >-2\relax
1196     \addpenalty\@secpenalty
1197     \addvspace{2.25em \@plus\p@}%
1198     \begingroup
1199       \setlength{\@tempdima}{3em}%
1200       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1201       \parfillskip -\@pnumwidth
1202       {\leavevmode
1203         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
1204         \nobreak
1205       \if@compatibility
1206         \global\@nobreaktrue
1207         \everypar{\global\@nobreakfalse\everypar{}}%
```



```

1208     \fi
1209   \endgroup
1210 \fi}
1211 \else
1212   \renewcommand*\l@part{%
1213     \ifnum \c@tocdepth >-2\relax
1214       \addpenalty\@secpenalty
1215       \addvspace{2.25em \@plus \p@}%
1216       \@regtocline{0}%
1217     \fi}
1218 \fi
1219
1220 \if@oldtoc
1221 \renewcommand*\l@section[2]{%
1222   \addpenalty\@secpenalty
1223   \addvspace{1.0em \@plus \p@}%
1224   \setlength\@tempdima{1.5em}%
1225   \begingroup
1226   \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1227   \parfillskip -\@pnumwidth
1228   \leavevmode \bfseries
1229   \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
1230   \hskip -\if@RTL\rightskip\else\leftskip\fi
1231   #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
1232 \endgroup}
1233 \else
1234   \renewcommand*\l@section{\@regtocline{1}}
1235 \fi
1236 \if@titlepage
1237 \renewenvironment{abstract}{%
1238   \titlepage
1239   \null\vfil
1240   \section*\SectFont\abstractname}%
1241   \noindent\ignorespaces}
1242   {\par\vfil\null\endtitlepage}
1243 \else
1244 \renewenvironment{abstract}{%
1245   \if@twocolumn
1246     \section*\abstractname}%
1247   \else
1248     \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
1249     \section*\small\SectFont\abstractname}%
1250     \noindent\ignorespaces
1251   \fi}
1252   {\if@twocolumn\else\par\egroup\fi}
1253 \fi
1254 \renewcommand*\left@footnoterule{%
1255   \kern-3\p@
1256   \kern.5\baselineskip
1257   \hrule\@width\unitindent
1258   \kern.4\baselineskip
1259 }
1260 \renewcommand*\right@footnoterule{%
1261   \kern-3\p@

```



```

1262 \kern.5\baselineskip
1263 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
1264 \kern.4\baselineskip}
1265 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@section}
1266 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1267 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1268 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1269 \renewenvironment{thebibliography}[1]
1270     {\section*\refname}%
1271     \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1272     \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
1273     \bidi@thebibliography@font@hook%
1274     \list{\@biblabel{\@arabic\c@enumiv}}%
1275         {\settowidth\labelwidth{\@biblabel{#1}}%
1276         \leftmargin\labelwidth
1277         \advance\leftmargin\labelsep
1278         \@openbib@code
1279         \usecounter{enumiv}%
1280         \let\p@enumiv\@empty
1281         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1282     \sloppy\clubpenalty4000\widowpenalty4000%
1283     \sfcode`. \@m}
1284     {\def\@noitemerr
1285     {\@latex@warning{Empty `thebibliography' environment}}}%
1286     \endlist}
1287 \if@titlepage
1288 \renewcommand*\TitleFont{\rmfamily}
1289 \renewcommand*\maketitle{%
1290 \begin{titlepage}%
1291 \let\footnotesize\small
1292 \let\right@footnoterule\relax
1293 \let\left@footnoterule\relax
1294 \let\textwidth\footnoterule\relax
1295 \let \footnote \thanks
1296 \long\def\@makefntext##1{\parindent\z@
1297 \def\labelitemi{\textendash}\@revlabeltrue
1298 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1299 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1300 \if@compatibility\setcounter{page}{0}\fi
1301 \null\vfil
1302 \vskip 60\p@
1303 \begin{center}%
1304 \TitleFont
1305 {\LARGE \def\\{\penalty -\@M}
1306 \if@allcaps
1307 \expandafter\uc@nothanks\@title\thanks\relax
1308 \else
1309 \@title
1310 \fi\par}%
1311 \vskip 3em%
1312 {\large
1313 \lineskip .75em \parindent\z@
1314 \begin{tabular}[t]{c}%
1315 \if@allcaps

```



```

1316         \expandafter\uc@authornothanks \@author\and\relax
1317     \else
1318         \@author
1319     \fi
1320 \end{tabular}\par}%
1321 \vskip 1.5em%
1322 {\large
1323 \if@allcaps
1324 \uppercase\expandafter{\@date}%
1325 \else
1326 \@date
1327 \fi\par}%
1328 \end{center}\par
1329 \@thanks
1330 \vfil\null
1331 \end{titlepage}%
1332 \setcounter{footnote}{0}%
1333 \global\let\thanks\relax
1334 \global\let\maketitle\relax
1335 \global\let\@thanks\@empty
1336 \global\let\@author\@empty
1337 \global\let\@title\@empty
1338 \global\let\@date\@empty
1339 \global\let\title\relax
1340 \global\let\author\relax
1341 \global\let\date\relax
1342 \global\let\and\relax
1343 }
1344 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1345 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1346 \futurelet\@tempa\uc@ax}
1347 \def\uc@ax{%
1348 \ifx\@tempa\relax
1349 \else
1350 \ \andname \ \ \expandafter\uc@authornothanks
1351 \fi}
1352 \def\uc@tx{\ifx\@tempa\relax
1353 \else \expandafter\uc@ty \fi}
1354 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1355 \else
1356 \renewcommand*\maketitle{\par
1357 \begin{group}
1358 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1359 \def\@makefnmark{\rlap{%
1360 \@textsuperscript{\normalfont\@thefnmark}}}%
1361 \long\def\@makefntext{\@xmakefntext{%
1362 \@textsuperscript{\normalfont\@thefnmark}}}%
1363 \if@twocolumn
1364 \ifnum \col@number=\@one
1365 \@maketitle
1366 \else
1367 \twocolumn[\@maketitle]%
1368 \fi
1369 \else

```



```

1370     \newpage
1371     \global\@topnum\z@
1372     \@maketitle
1373     \fi
1374     \thispagestyle{plain}\@thanks
1375 \endgroup
1376 \setcounter{footnote}{0}%
1377 \global\let\thanks\relax
1378 \global\let\maketitle\relax
1379 \global\let\@maketitle\relax
1380 \global\let\@thanks\@empty
1381 \global\let\@author\@empty
1382 \global\let\@title\@empty
1383 \global\let\@date\@empty
1384 \global\let\title\relax
1385 \global\let\author\relax
1386 \global\let\date\relax
1387 \global\let\and\relax
1388 }
1389 \def\@maketitle{%
1390     \newpage
1391     \null
1392     \vskip 2em%
1393     \if@titlecentered
1394         \begin{center}%
1395             \let \footnote \thanks
1396             {\LARGE \TitleFont \@title \par}%
1397             \vskip 1.5em%
1398             {\large \TitleFont
1399               \lineskip .5em%
1400               \begin{tabular}[t]{c}%
1401                 \@author
1402               \end{tabular}\par}%
1403             \vskip 1em%
1404             {\large \TitleFont \@date}%
1405         \end{center}%
1406     \else
1407         {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
1408         {\large \TitleFont \lineskip .5em \tabcolsep\z@
1409           \def\and{%%} \begin{tabular} has already started
1410             \end{tabular}\hskip 1em plus .17fil
1411             \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabu
1412             \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}\
1413           \vskip 1em {\large \TitleFont \@date}
1414     \fi
1415     \par
1416     \vskip 1.5em}
1417 \fi

```

13 File arydshln-xetex-bidi.def

```

1418 \ProvidesFile{arydshln-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for arydshln package]
1419 \def\endarray{\adl@endarray \egroup \adl@arrayrestore \if@RTLtab\egroup\endR\egroup\fi\egroup}
1420 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}

```




```

1421 \expandafter\let\csname endtabular*\endcsname\endtabular
1422 \let\adl@array\@array
1423 \def\@array{\adl@everyvbox\everyvbox
1424     \everyvbox{\adl@arrayinit \the\adl@everyvbox \everyvbox\adl@everyvbox}%
1425     \ifadl@inactive \adl@inactivate \else \adl@activate \fi
1426     \let\adl@noalign\noalign
1427     \adl@array}
1428 \ifadl@usingarypkg
1429 \def\@testpach{\@chclass
1430 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
1431 \ifnum \@lastchclass=7 5 \else
1432 \ifnum \@lastchclass=8 \tw@ \else
1433 \ifnum \@lastchclass=9 \thr@@
1434 \else \z@
1435 \ifnum \@lastchclass = 10 \else
1436 \edef\@nextchar{\expandafter\string\@nextchar}%
1437 \@chnum
1438 \if \@nextchar c\z@ \else
1439 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
1440 \if \@nextchar \if@RTLtab l\else r\fi\@tw@ \else
1441 \z@ \@chclass
1442 \if \@nextchar |\@ne \let\@arrayrule\adl@arrayrule \else
1443 \if \@nextchar : \@ne \let\@arrayrule\adl@arraydashrule \else
1444 \if \@nextchar ; \@ne \let\@arrayrule\adl@argarraydashrule \else
1445 \if \@nextchar !6 \else
1446 \if \@nextchar @7 \else
1447 \if \@nextchar <8 \else
1448 \if \@nextchar >9 \else
1449 10
1450 \@chnum
1451 \if \@nextchar m\thr@@\else
1452 \if \@nextchar p4 \else
1453 \if \@nextchar b5 \else
1454 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi
1455 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1456
1457 \def\@classz{\@classx
1458     \@tempcnta \count@
1459     \prepnext@tok
1460     \@addtopreamble{\ifcase \@chnum
1461         \hfil
1462         \adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1463         \hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1464         \hfil\hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\or
1465         \setbox\adl@box\hbox \adl@startmbox{\@nextchar}\insert@column
1466         \adl@endmbox\or
1467         \setbox\adl@box\vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
1468         \setbox\adl@box\vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1469         \fi}\prepnext@tok}
1470 \def\adl@class@start{4}
1471 \def\adl@class@iiiorvii{7}
1472
1473 \else
1474 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4\relax \else

```



```

1475 \ifnum \@lastchclass=\thr@@ 5\relax \else
1476 \z@ \if #1c\@chnum \z@ \else
1477 \if \if@RTLtab#1r\else#1l\fi\@chnum \@one \else
1478 \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
1479 \@chclass
1480 \if #1|\@one \let\@arrayrule\adl@arrayrule \else
1481 \if #1:\@one \let\@arrayrule\adl@arraydashrule \else
1482 \if #1;\@one \let\@arrayrule\adl@argarraydashrule \else
1483 \if #1@tw@ \else
1484 \if #1p\thr@@ \else \z@ \@preamerr 0\fi
1485 \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1486
1487 \def\@arrayclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1488 \or \or \@addamp \or
1489 \@acolampacol \or \@firstampfalse \@acol \fi
1490 \edef\@preamble{\@preamble
1491 \ifcase \@chnum
1492 \hfil\adl@putlrc{\$relax\@sharp$}\hfil
1493 \or \adl@putlrc{\$relax\@sharp$}\hfil
1494 \or \hfil\adl@putlrc{\$relax\@sharp$}\fi}}
1495 \def\@tabclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1496 \or \or \@addamp \or
1497 \@acolampacol \or \@firstampfalse \@acol \fi
1498 \edef\@preamble{\@preamble
1499 \ifcase \@chnum
1500 \hfil\adl@putlrc{\@sharp\unskip}\hfil
1501 \or \adl@putlrc{\@sharp\unskip}\hfil
1502 \or \hfil\hskip\z@ \adl@putlrc{\@sharp\unskip}\fi}}
1503 \def\adl@class@start{6}
1504 \def\adl@class@iiiorvii{3}
1505 \fi
1506 \ApplyPatchCodeToPackage{colortbl}{%
1507 \def\adl@inactivate{\adl@org@inactivate \let\CT@setup\adl@CT@setup}
1508 \def\adl@activate{\adl@org@activate \let\CT@setup\adl@act@CT@setup
1509 \let\@endpbox\adl@org@endpbox}
1510 \let\adl@CT@setup\CT@setup
1511 \def\CT@setup{\adl@CT@setup
1512 \@tempdima\ht\z@ \advance\@tempdima\minrowclearance
1513 \ifdim\adl@height<\@tempdima \global\adl@height\@tempdima \fi
1514 \ifdim\adl@depth<\dp\z@ \global\adl@depth\dp\z@\fi}
1515 \let\adl@act@CT@setup\CT@setup
1516 \def\@classz{\@classx
1517 \@tempcnta\count@ \prepnext@tok
1518 \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
1519 \expandafter\adl@extract@arc\the\toks\@tempcnta\arrayrulecolor!\@nil
1520 \expandafter\adl@extract@drsc
1521 \the\toks\@tempcnta\doublerulesepcolor!\@nil
1522 \expandafter\adl@extract@dgc\the\toks\@tempcnta\dashgapcolor!\@nil
1523 \@addtopreamble{\if@RTL\beginL\fi%
1524 \setbox\z@\hbox\bgroup\bgroup\if@RTL\beginR\fi
1525 \ifcase \@chnum
1526 \hskip\stretch{.5}\kern\z@
1527 \dollarbegin
1528 \insert@column

```



```

1529             \d@llarend\hskip\stretch{.5}%
1530         \or \d@llarbegin \insert@column \d@llarend \hfill
1531         \or \hfill \kern\z@ \d@llarbegin \insert@column \d@llarend
1532         \or $\vcenter
1533             \@startpbox{\@nextchar}\insert@column \@endpbox $\%
1534         \or \vtop \@startpbox{\@nextchar}\insert@column \@endpbox
1535         \or \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1536         \fi
1537     \if@RTL\endR\fi\egroup\egroup
1538     \beginngroup
1539         \CT@setup
1540         \CT@column@color
1541         \CT@row@color
1542         \CT@cell@color
1543         \CT@do@color
1544     \endgroup
1545     \@tempdima\ht\z@
1546     \advance\@tempdima\minrowclearance
1547     \vrule\@height\@tempdima\@width\z@
1548     \unhbox\z@\if@RTL\endL\fi}%
1549     \prepnext@tok}
1550 \let\adl@act@classz\@classz
1551 \let\adl@org@classz\@classz
1552 }

```

14 File beamer-xetex-bidi.def

```

1553 \ProvidesFile{beamer-xetex-bidi.def}[2022/06/07 v0.3 bidi adaptations for beamer class for Xe
1554 \AtBeginDocument{%
1555     \if@RTLmain
1556         \raggedleft
1557     \else
1558         \raggedright
1559     \fi
1560 }
1561
1562 \renewcommand*{\bidi@beamer@ragged}{%
1563     \if@RTL
1564         \raggedleft
1565     \else
1566         \raggedright
1567     \fi
1568 }
1569
1570

```

15 File beamerbaseauxtemplates-xetex-bidi.def

```

1571 \ProvidesFile{beamerbaseauxtemplates-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for be
1572 \bidi@csundef{beamer@tmpop@subsection in toc@sections numbered}
1573
1574 \bidi@csundef{beamer@tmpop@subsubsection in toc@sections numbered}
1575
1576 \bidi@csundef{beamer@tmpop@section in toc@subsections numbered}

```



```

1577
1578 \bidi@csundef{beamer@@tmpop@subsection in toc@subsections numbered}
1579
1580 \bidi@csundef{beamer@@tmpop@subsubsection in toc@subsections numbered}
1581
1582 \defbeamertemplate{subsection in toc}{sections numbered}
1583 {\leavevmode\bidi@beamer@leftskip=2.5em\inserttocsubsection\par}
1584
1585 \defbeamertemplate{subsubsection in toc}{sections numbered}
1586 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3.5em\usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
1587
1588 \defbeamertemplate{section in toc}{subsections numbered}
1589 {\leavevmode\bidi@beamer@leftskip=2em\inserttocsection\par}
1590
1591 \defbeamertemplate{subsection in toc}{subsections numbered}
1592 {\leavevmode\bidi@beamer@leftskip=2em\rlap{\hskip-2em\inserttocsectionnumber.\inserttocsubsection in toc}{sections numbered}
1593 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}%
1594 \inserttocsubsubsection\par}
1595
1596 \defbeamertemplate{section in toc}{circle}
1597 {\leavevmode\bidi@beamer@leftskip=2em\inserttocsubsection\par}
1598
1599 \defbeamertemplate{subsubsection in toc}{circle}
1600 {\leavevmode\normalsize\usebeamerfont{subsubsection in toc}\bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}%
1601 \inserttocsubsubsection\par}
1602
1603 \defbeamertemplate{section in toc}{square}
1604 {\leavevmode\bidi@beamer@leftskip=2em\inserttocsubsection\par}
1605
1606 \defbeamertemplate{subsubsection in toc}{square}
1607 {\leavevmode\normalsize\usebeamerfont{subsubsection in toc}\bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}%
1608 \inserttocsubsubsection\par}
1609
1610 \defbeamertemplate{section in toc}{square}
1611 {\leavevmode\bidi@beamer@leftskip=2em\inserttocsubsection\par}
1612
1613 \defbeamertemplate{subsubsection in toc}{square}
1614 {\leavevmode\normalsize\usebeamerfont{subsubsection in toc}\bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}%
1615 \inserttocsubsubsection\par}
1616
1617 \defbeamertemplate{section in toc}{square}
1618 {\leavevmode\bidi@beamer@leftskip=2em\inserttocsubsection\par}
1619
1620 \defbeamertemplate{subsubsection in toc}{square}
1621 {\leavevmode\normalsize\usebeamerfont{subsubsection in toc}\bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}%
1622 \inserttocsubsubsection\par}
1623
1624 \defbeamertemplate{section in toc}{square}
1625 {\leavevmode\bidi@beamer@leftskip=2em\inserttocsubsection\par}
1626
1627 \defbeamertemplate{subsubsection in toc}{square}
1628 {\leavevmode\normalsize\usebeamerfont{subsubsection in toc}\bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}%
1629 \inserttocsubsubsection\par}
1630

```



```

1631
1632 \bidi@csundef{beamer@@tmpop@subsubsection in toc@square}
1633
1634 \bidi@csundef{beamer@@tmpop@enumerate item@square}
1635
1636 \bidi@csundef{beamer@@tmpop@enumerate subitem@square}
1637
1638 \bidi@csundef{beamer@@tmpop@enumerate subsubitem@square}
1639
1640 \bidi@csundef{beamer@@tmpop@enumerate mini template@square}
1641
1642 \defbeamertemplate{section in toc}{square}
1643 {\leavevmode\bidi@beamer@leftskip=3ex%
1644   \llap{{%
1645     \usebeamerfont*{section number projected}%
1646     \usebeamercolor[bg]{section number projected}%
1647     \if@RTL
1648     \else
1649       \vrule width2.25ex height1.85ex depth.4ex%
1650       \hskip-2.25ex%
1651     \fi
1652     \hbox to2.25ex{{\hfil\color{fg}\inserttocsectionnumber\hfil}}}%
1653     \if@RTL
1654       \hskip-2.25ex%
1655       \vrule width2.25ex height1.85ex depth.4ex%
1656     \fi
1657   }}\kern1.25ex}%
1658 \inserttocsection\par}
1659
1660 \defbeamertemplate{subsection in toc}{square}
1661 {\leavevmode\bidi@beamer@leftskip=5ex\llap{{%
1662   \usebeamercolor[bg]{subsection number projected}%
1663   \vrule width1ex height1ex\kern1ex}}\inserttocsubsection\par}
1664
1665 \defbeamertemplate{subsubsection in toc}{square}
1666 {\leavevmode\normalsize\usebeamerfont{subsection in
1667   toc}\bidi@beamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1668   \llap{{%
1669     \usebeamercolor[bg]{subsubsection number projected}%
1670     \vrule width0.75ex height0.75ex\kern1ex}}\inserttocsubsubsection\par}
1671
1672 \defbeamertemplate{enumerate item}{square}
1673 {
1674   \hbox{{%
1675     \usebeamerfont*{item projected}%
1676     \usebeamercolor[bg]{item projected}%
1677     \if@RTL
1678     \else
1679       \vrule width2.25ex height1.85ex depth.4ex%
1680       \hskip-2.25ex%
1681     \fi
1682     \hbox to2.25ex{{%
1683       \hfil%
1684       \color{fg}\insertenumlabel%

```



```

1685     \hfil}}%
1686     \if@RTL
1687         \hskip-2.25ex%
1688         \vrule width2.25ex height1.85ex depth.4ex%
1689     \fi
1690 }}%
1691 }
1692 [action]
1693 {\setbeamerfont{item projected}{size=\scriptsize}}
1694
1695 \defbeamertemplate{enumerate subitem}{square}
1696 {
1697     \hbox{%
1698         \usebeamerfont*{subitem projected}%
1699         \usebeamercolor[bg]{subitem projected}%
1700         \if@RTL
1701         \else
1702             \vrule width2.25ex height1.85ex depth.4ex%
1703             \hskip-2.25ex%
1704         \fi
1705         \hbox to2.25ex{%
1706             \hfil%
1707             \color{fg}\insertsubenumlabel%
1708             \hfil}}%
1709         \if@RTL
1710             \hskip-2.25ex%
1711             \vrule width2.25ex height1.85ex depth.4ex%
1712         \fi
1713     }}%
1714 }
1715
1716 \defbeamertemplate{enumerate subsubitem}{square}
1717 {
1718     \hbox{%
1719         \usebeamerfont*{subitem projected}%
1720         \usebeamercolor[bg]{subsubitem projected}%
1721         \if@RTL
1722         \else
1723             \vrule width2.25ex height1.85ex depth.4ex%
1724             \hskip-2.25ex%
1725         \fi
1726         \hbox to2.25ex{%
1727             \hfil%
1728             \color{fg}\insertsubsubenumlabel%
1729             \hfil}}%
1730         \if@RTL
1731             \hskip-2.25ex%
1732             \vrule width2.25ex height1.85ex depth.4ex%
1733         \fi
1734     }}%
1735 }
1736
1737 \defbeamertemplate{enumerate mini template}{square}
1738 {

```



```

1739 \hbox{%
1740   \usebeamerfont*{\beameritemnestingprefix item projected}%
1741   \usebeamercolor[bg]{\beameritemnestingprefix item projected}%
1742   \if@RTL
1743   \else
1744     \vrule width2.25ex height1.85ex depth.4ex%
1745     \hskip-2.25ex%
1746   \fi
1747   \hbox to2.25ex{%
1748     \hfil%
1749     \color{fg}\insertenumlabel%
1750     \hfil}%
1751   \if@RTL
1752     \hskip-2.25ex%
1753     \vrule width2.25ex height1.85ex depth.4ex%
1754   \fi
1755 }}%
1756 }
1757
1758 \bidi@csundef{beamer@@tmpop@section in toc@ball unnumbered}
1759
1760 \bidi@csundef{beamer@@tmpop@subsection in toc@ball unnumbered}
1761
1762 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball unnumbered}
1763
1764 \defbeamertemplate{section in toc}{ball unnumbered}
1765 {\leavevmode\bidi@beamer@leftskip=2.25ex%
1766   \llap{%
1767     \raise0.1ex\beamer@usesphere{section number projected}{bigsphere}\kern1.25ex}%
1768   \inserttocsection\par}
1769
1770 \defbeamertemplate{subsection in toc}{ball unnumbered}
1771 {\leavevmode\bidi@beamer@leftskip=5.1ex\llap{%
1772   \raise0.2ex\beamer@usesphere{subsection number projected}{smallsphere}\kern1ex}\inserttocsection\par}
1773
1774 \defbeamertemplate{subsubsection in toc}{ball unnumbered}
1775 {\leavevmode\normalsize\usebeamerfont{subsection in
1776   toc}\bidi@beamer@leftskip=8.2ex\usebeamerfont{subsubsection in toc}%
1777   \llap{%
1778     \beamer@usesphere{subsubsection number projected}{smallsphere}\kern0.75ex}\inserttocsubsubsection\par}
1779
1780 \bidi@csundef{beamer@@tmpop@section in toc@ball}
1781
1782 \bidi@csundef{beamer@@tmpop@subsection in toc@ball}
1783
1784 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball}
1785
1786 \defbeamertemplate{section in toc}{ball}
1787 {\leavevmode\bidi@beamer@leftskip=2.75ex%
1788   \llap{%
1789     \normalsize%
1790     \begin{pgfpicture}{-1ex}{-0.7ex}{1ex}{1ex}
1791       \pgftext{\beamer@usesphere{section number projected}{tocsphere}}
1792       \pgftext{%

```



```

1793         \usebeamerfont*{section number projected}%
1794         \usebeamerfont*{section number projected}%
1795         \color{fg!90!bg}%
1796         \inserttocsectionnumber}
1797     \end{pgfpicture}%
1798     \kern1.25ex}%
1799 \inserttocsection\par
1800 }
1801 [action]
1802 {\setbeamerfont{section number projected}{size=\scriptsize}}
1803
1804 \defbeamertemplate{subsection in toc}{ball}
1805 {\leavevmode\bidibeamer@leftskip=5ex%
1806   \llap{\raise0.1ex\beamer@usesphere{subsection number projected}{bigsphere}\kern1ex}%
1807   \inserttocsubsection\par%
1808 }
1809
1810 \defbeamertemplate{subsubsection in toc}{ball}
1811 {\leavevmode\normalsize\usebeamerfont{subsubsection in
1812   toc}\bidibeamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1813   \llap{\beamer@usesphere{subsubsection number projected}{bigsphere}\kern0.75ex}%
1814   \inserttocsubsubsection\par%
1815 }
1816
1817 \bidicsundef{beamer@@tmpop@block begin@rounded}
1818
1819 \bidicsundef{beamer@@tmpop@block alerted begin@rounded}
1820
1821 \bidicsundef{beamer@@tmpop@block example begin@rounded}
1822
1823 \defbeamertemplate{block begin}{rounded}[1][shadow=false]
1824 {%
1825   \par\vskip\medskipamount%
1826   \begin{beamerboxesrounded}[upper=block title,lower=block body,#1]%
1827     {\raggedright\usebeamerfont*{block title}\insertblocktitle}%
1828     \bidibeamer@ragged%
1829     \usebeamerfont{block body}%
1830   }
1831
1832 \defbeamertemplate{block alerted begin}{rounded}[1][shadow=false]
1833 {%
1834   \par\vskip\medskipamount%
1835   \begin{beamerboxesrounded}[upper=block title alerted,lower=block body alerted,#1]%
1836     {\raggedright\usebeamerfont*{block title alerted}\insertblocktitle}%
1837     \bidibeamer@ragged%
1838     \usebeamerfont{block body alerted}%
1839   }%
1840
1841 \defbeamertemplate{block example begin}{rounded}[1][shadow=false]
1842 {%
1843   \par\vskip\medskipamount%
1844   \begin{beamerboxesrounded}[upper=block title example,lower=block body example,#1]
1845     {\raggedright\usebeamerfont*{block title example}\insertblocktitle}%
1846     \bidibeamer@ragged%

```




```

1847 \usebeamerfont{block body example}%
1848 }%
1849
1850 \bidi@csundef{beamer@@tmpop@caption@numbered}
1851
1852 \defbeamertemplate{caption}{numbered}
1853 {%
1854 \leavevmode
1855 \bidi@beamer@ragged
1856 {%
1857 \usebeamercolor[fg]{caption name}%
1858 \usebeamerfont*{caption name}%
1859 \insertcaptionname~\insertcaptionnumber
1860 \usebeamertemplate{caption label separator}%
1861 }%
1862 \insertcaption\par
1863 }
1864
1865 \bidi@csundef{beamer@@tmpop@caption@caption name own line}
1866
1867 \defbeamertemplate{caption}{caption name own line}
1868 {%
1869 \begin{minipage}{\textwidth}
1870 \leavevmode
1871 \bidi@beamer@ragged
1872 {%
1873 \usebeamercolor[fg]{caption name}%
1874 \usebeamerfont*{caption name}%
1875 \insertcaptionname%
1876 }\\
1877 \insertcaption
1878 \end{minipage}
1879 }
1880
1881 \ApplyPatchCodeToPackage{caption}{%
1882 \DeclareCaptionFont{beamer@font}{%
1883 \usebeamerfont*{caption}%
1884 % \usebeamercolor[fg]{caption}%
1885 }
1886 \SetCaptionDefault{font}{beamer@font}
1887 \DeclareCaptionJustification{bidi@beamer@ragged}{\bidi@beamer@ragged}
1888 \SetCaptionDefault{justification}{bidi@beamer@ragged}
1889 }
1890

```

16 File beamerbaseboxes-xetex-bidi.def

```

1891 \ProvidesFile{beamerbaseboxes-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for beamerbas
1892 \renewcommand\beamerboxesrounded[2][]{%
1893 \global\let\beamer@firstlineitemizeunskip=\relax%
1894 \vbox\bgroup%
1895 \setkeys{beamerboxes}{upper=block title,lower=block body,width=\textwidth,shadow=false}%
1896 \setkeys{beamerboxes}{#1}%
1897 {%

```



```

1898 \usebeamercolor{\bmb@lower}%
1899 \globalcolorstrue%
1900 \colorlet{lower.bg}{bg}%
1901 }%
1902 {%
1903 \usebeamercolor{\bmb@upper}%
1904 \globalcolorstrue%
1905 \colorlet{upper.bg}{bg}%
1906 }%
1907 %
1908 % Typeset head
1909 %
1910 \vskip4bp
1911 \setbox\bmb@box=\hbox{%
1912 \begin{minipage}[b]{\bmb@width}%
1913 \usebeamercolor{fg}{\bmb@upper}%
1914 #2%
1915 \end{minipage}}%
1916 \ifdim\wd\bmb@box=0pt%
1917 \setbox\bmb@box=\hbox{}%
1918 \ht\bmb@box=1.5pt%
1919 \bmb@prevheight=-4.5pt%
1920 \else%
1921 \wd\bmb@box=\bmb@width%
1922 \bmb@temp=\dp\bmb@box%
1923 \ifdim\bmb@temp<1.5pt%
1924 \bmb@temp=1.5pt%
1925 \fi%
1926 \setbox\bmb@box=\hbox{\raise\bmb@temp\hbox{\box\bmb@box}}%
1927 \dp\bmb@box=0pt%
1928 \bmb@prevheight=\ht\bmb@box%
1929 \fi%
1930 \bmb@temp=\bmb@width%
1931 \bmb@dima=\bmb@temp\advance\bmb@dima by2.2bp%
1932 \bmb@dimb=\bmb@temp\advance\bmb@dimb by4bp%
1933 \hbox{%
1934 \begin{pgfpicture}{0bp}{+-\ht\bmb@box}{0bp}{+-\ht\bmb@box}
1935 \ifdim\wd\bmb@box=0pt%
1936 \color{lower.bg}%
1937 \else%
1938 \color{upper.bg}%
1939 \fi%
1940 \pgfpathmoveto{-4bp}{-1bp}
1941 \pgfpathqcurveto{-4bp}{1.2bp}{-2.2bp}{3bp}{0bp}{3bp}
1942 \pgfpathlineto{\pgfpoint{\bmb@temp}{3bp}}
1943 \pgfpathcurveto%
1944 {\pgfpoint{\bmb@dima}{3bp}}%
1945 {\pgfpoint{\bmb@dimb}{1.2bp}}%
1946 {\pgfpoint{\bmb@dimb}{-1bp}}%
1947 \bmb@dima=-\ht\bmb@box%
1948 \advance\bmb@dima by-2pt%
1949 \pgfpathlineto{\pgfpoint{\bmb@dimb}{\bmb@dima}}
1950 \pgfpathlineto{\pgfpoint{-4bp}{\bmb@dima}}
1951 \pgfusepath{fill}

```



```

1952 \end{pgfpicture}%
1953 \copy\bmb@box%
1954 }%
1955 \nointerlineskip%
1956 \vskip-1pt%
1957 \ifdim\wd\bmb@box=0pt%
1958 \else%
1959 \hbox{%
1960 \begin{pgfpicture}{0pt}{0pt}{\bmb@width}{6pt}
1961 \bmb@dima=\bmb@width%
1962 \advance\bmb@dima by8bp%
1963 \pgfpathrectangle{\pgfpoint{-4bp}{-1bp}}{\pgfpoint{\bmb@dima}{8bp}}
1964 \pgfusepath{clip}
1965 {\pgftransformshift{\pgfpoint{-4bp}{0bp}}\pgftext[left,base]{\pgfuses shading{\bmb@transi
1966 \end{pgfpicture}%
1967 }%
1968 \nointerlineskip%
1969 \vskip-0.5pt%
1970 \fi%
1971 \setbox\bmb@colorbox=\hbox{\pgfpicturetrue\pgfsetcolor{lower.bg}}}%
1972 \setbox\bmb@box=\hbox\bgroup\begin{minipage}[b]{\bmb@width}%
1973 \vskip2pt%
1974 \usebeamercolor{fg}{\bmb@lower}%
1975 \colorlet{beamerstructure}{upper.bg}%
1976 \colorlet{structure}{upper.bg}%
1977 %\color{.}%
1978 \@bidi@list@minipage@parboxfalse
1979 }
1980
1981 \bidi@patchcmd{\endbeamerboxesrounded}{\begingroup}{%
1982 \begingroup
1983 \@RTLfalse
1984 }{}{}
1985
1986

```

17 File beamerbasecolor-xetex-bidi.def

```

1987 \ProvidesFile{beamerbasecolor-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for beamerbas
1988 \renewenvironment{beamercolorbox}[2][]{%
1989 \def\beamer@vmode{\leavevmode}%
1990 \setkeys{beamercolbox}{wd=\textwidth,ht={},dp={},%
1991 leftskip=0pt,rightskip=0pt plus1fil,%
1992 sep=0pt,colsep=0pt,colsep*=0pt,%
1993 shadow=false,rounded=false,ignorebg=false}%
1994 \if@RTL
1995 \setkeys{beamercolbox}{rightskip=0pt,leftskip=0pt plus1fil}%
1996 \else
1997 \setkeys{beamercolbox}{leftskip=0pt,rightskip=0pt plus1fil}%
1998 \fi
1999 \setkeys{beamercolbox}{#1}%
2000 \ifbeamercoloreempty{bg}{#2}{\@tempwafalse}{\@tempwattrue}%
2001 \ifbeamer@colbox@ignorebg\@tempwafalse\fi%
2002 \def\beamer@colbox@color{#2}%

```



```

2003 \setbox\beamer@tempbox=\hbox\bgroup\color@begingroup
2004 \ifbeamer@colbox@ignorebg%
2005 \colorlet{beamer@temp@color}{bg}%
2006 \usebeamercolor[fg]{#2}%
2007 \colorlet{bg}{beamer@temp@color}%
2008 \else%
2009 \usebeamercolor[fg]{#2}%
2010 \fi%
2011 \beginL
2012 \vbox\bgroup%
2013 \hsize=\beamer@colbox@wd%
2014 \@arrayparboxrestore%
2015 \leftskip=\beamer@colbox@ls%
2016 \ifdim\beamer@colbox@sep>\z@\advance\leftskip\beamer@colbox@sep\fi%
2017 \rightskip=\beamer@colbox@rs%
2018 \ifdim\beamer@colbox@sep>\z@\advance\rightskip\beamer@colbox@sep\fi%
2019 \if@tempswa\ifdim\beamer@colbox@colsep>\z@%
2020 \advance\leftskip by\beamer@colbox@colsep%
2021 \advance\rightskip by\beamer@colbox@colsep%
2022 \vskip\beamer@colbox@colsep%
2023 \fi%
2024 \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
2025 \fi%
2026 \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
2027 \beamer@vmode\ignorespaces}{%
2028 \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
2029 \if@tempswa
2030 \ifdim\beamer@colbox@colsep>\z@\vskip\beamer@colbox@colsep\fi%
2031 \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
2032 \fi%
2033 \egroup\endL\color@endgroup\egroup%
2034 \wd\beamer@tempbox=\beamer@colbox@wd%
2035 \ifx\beamer@colbox@ht\@empty\else\ht\beamer@tempbox=\beamer@colbox@ht\fi%
2036 \ifx\beamer@colbox@dp\@empty\else\dp\beamer@tempbox=\beamer@colbox@dp\fi%
2037 \ifbeamer@colbox@rounded%
2038 \if@tempswa%
2039 \begin{beamerboxesrounded}[%
2040 shadow=\beamer@colbox@shadow,%
2041 lower=\beamer@colbox@color,%
2042 upper=normal text,%
2043 width=\beamer@colbox@wd]{}%
2044 \box\beamer@tempbox%
2045 \end{beamerboxesrounded}%
2046 \else%
2047 \ifdim\wd\beamer@tempbox>\textwidth%
2048 \setbox\beamer@tempbox=\hbox to\textwidth{\hss\box\beamer@tempbox\hss}%
2049 \fi%
2050 \box\beamer@tempbox%
2051 \fi%
2052 \else%
2053 \if@tempswa\setbox\beamer@tempbox=\hbox{%
2054 \usebeamercolor{\beamer@colbox@color}%
2055 \hskip-\beamer@colbox@colseps%
2056 \fboxsep=\z@\colorbox{bg}{%

```



```

2057         \hskip\beamer@colbox@colseps%
2058         \box\beamer@tempbox%
2059         \hskip\beamer@colbox@colseps%
2060     }%
2061     \hskip-\beamer@colbox@colseps%
2062     }\fi%
2063     \ifdim\wd\beamer@tempbox>\textwidth%
2064         \setbox\beamer@tempbox=\hbox to\textwidth{\hskip0pt minus\beamer@leftmargin\relax\box%
2065     \fi%
2066     \box\beamer@tempbox%
2067 \fi%
2068 }
2069
2070

```

18 File beamerbasecompatibility-xetex-bidi.def

```

2071 \ProvidesFile{beamerbasecompatibility-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for b
2072 \def\insertvrule#1#2{\hbox{{\color{#2}\hskip-\Gm@lmargin\vrule width \paperwidth height #1\h
2073
2074

```

19 File beamerbaseframecomponents-xetex-bidi.def

```

2075 \ProvidesFile{beamerbaseframecomponents-xetex-bidi.def}[2024/12/28 v0.7 bidi adaptations for
2076 \renewcommand{\setbeamersize}[1]{%
2077     \beamer@dogeometryfalse%
2078     \setkeys{beamer@margin}{#1}%
2079     \ifbeamer@dogeometry%
2080         % Reset left margin now
2081         \beamer@tempdim=\beamer@leftmargin%
2082         \advance\beamer@tempdim by\beamer@leftsidebar%
2083         \if@RTLmain
2084             \geometry{right=\the\beamer@tempdim}%
2085         \else
2086             \geometry{left=\the\beamer@tempdim}%
2087         \fi
2088         % Reset right margin now
2089         \beamer@tempdim=\beamer@rightmargin%
2090         \advance\beamer@tempdim by\beamer@rightsidebar%
2091         \if@RTLmain
2092             \geometry{left=\the\beamer@tempdim}%
2093         \else
2094             \geometry{right=\the\beamer@tempdim}%
2095         \fi
2096     \fi%
2097 }
2098
2099 \newcommand*{\bidi@beamer@Gm@lmargin}{%
2100     \if@RTLmain
2101         \Gm@rmargin
2102     \else
2103         \Gm@lmargin
2104     \fi

```



```

2105 }
2106
2107 \newcommand*{\bidi@beamer@Gm@rmargin}{%
2108   \if@RTLmain
2109     \Gm@lmargin
2110   \else
2111     \Gm@rmargin
2112   \fi
2113 }
2114
2115 \def\ps@navigation{
2116   \def\@oddhead{%
2117     \begingroup%
2118     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransition}%
2119     \beamer@tempdim=\ht\beamer@tempbox%
2120     \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}%
2121     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2122     \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}%
2123     \beamer@tempdim=\ht\@tempboxa%
2124     \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}%
2125     \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
2126     \vbox{\hbox{\hskip-\bidi@beamer@Gm@lmargin\box\beamer@tempbox\box\@tempboxa}%
2127       \hbox{%
2128         {%
2129           \setbox\beamer@tempbox=\hbox{\hskip-\bidi@beamer@Gm@lmargin%
2130             \if@RTLmain
2131               {%
2132                 \vbox to \sidebarheight{%
2133                   \usebeamertemplate***{sidebar left}}%
2134                   \vfil%
2135                 }}%
2136                 \ApplyPatchIfPackageLoadedF{beamerinnerthemeinmargin}{%
2137                   \hskip-\textwidth
2138                 }%
2139                 \fi
2140                 {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2141                   \usebeamercolor*{sidebar left}%
2142                   \usebeamertemplate{sidebar canvas left}%
2143                   \vss%
2144                 }}%
2145                   \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2146                   \box\beamer@tempbox}%
2147                   \if@RTLmain
2148                     \else
2149                     {%
2150                       \vbox to \sidebarheight{%
2151                         \usebeamertemplate***{sidebar left}}%
2152                         \vfil%
2153                       }}\fi}%
2154                   \beamer@tempdim=\ht\beamer@tempbox%
2155                   \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2156                   \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2157                   \box\beamer@tempbox%
2158                 }%

```



```

2159      {% print right sidebar first, since it should be overwritten by headline
2160      \setbox\beamer@tempbox=\hbox{\hskip\textwidth\hskip\beamer@rightmargin%
2161      \if@RTLmain
2162          {%
2163              \vbox to \sidebarheight{%
2164                  \usebeamertemplate***{sidebar right}%
2165                  \vfil%
2166              }}%
2167      \hskip-\textwidth
2168      \fi
2169      {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2170          \usebeamercolor*{sidebar right}%
2171          \usebeamertemplate{sidebar canvas right}%
2172          \vss%
2173          }}%
2174      \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2175      \box\beamer@tempbox}%
2176      \if@RTLmain
2177      \else
2178      {%
2179          \vbox to \sidebarheight{%
2180              \usebeamertemplate***{sidebar right}%
2181              \vfil%
2182          }}\fi}%
2183      \beamer@tempdim=\ht\beamer@tempbox%
2184      \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2185      \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2186      \box\beamer@tempbox%
2187      }%
2188      \beamer@typesetheadorfoot{headline}%
2189      }%
2190      \hfil}%
2191      \endgroup}
2192      \def\@oddfoot{%
2193          \vbox{\offinterlineskip\hbox{\beamer@typesetheadorfoot{footline}%
2194          \hfil}\hbox{}}\hfil
2195      }%
2196      \let\@evenhead\@oddhead
2197      \let\@evenfoot\@oddfoot}
2198
2199      \AtBeginDocument{%
2200          \pagestyle{navigation}%
2201      }
2202
2203      \def\beamer@typesetheadorfoot#1{% typeset the head or footline
2204      {\parskip0pt\offinterlineskip%
2205          \hbox{%
2206              \hskip-\bidi@beamer@Gm@lmargin%
2207              \hbox{%
2208                  \vbox{%
2209                      \@tempdima=\textwidth%
2210                      \textwidth=\paperwidth%
2211                      \hsize=\textwidth%
2212                      \def\{,\}%

```



```

2213         \usebeamertemplate***{#1}%
2214     }}%
2215     \hskip-\bidi@beamer@Gm@rmargin%
2216 } }\hfil%
2217 }
2218
2219 \def\ps@empty{%
2220 \let\@mkboth\@gobbletwo%
2221 \def\@oddhead{\begingroup%
2222     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransiti
2223     \beamer@tempdim=\ht\beamer@tempbox%
2224     \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2225     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2226     \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}}%
2227     \beamer@tempdim=\ht\@tempboxa%
2228     \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}}%
2229     \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
2230     \vbox{\hbox{\hskip-\Gm@lmargin\raise\headheight\box\beamer@tempbox\raise\headheight\box
2231     \endgroup%
2232 }
2233 \def\@oddfoot{\normalcolor\hfil%
2234     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{navigation symbols}\hskip-\bidi@beame
2235     \ht\beamer@tempbox=0pt%
2236     \dp\beamer@tempbox=0pt%
2237     \box\beamer@tempbox}}
2238 \let\@evenhead\@oddhead\let\@evenfoot\@oddfoot}
2239
2240 \renewenvironment<>{beamer@columnenv}[2][\beamer@colmode]{%
2241 \beamer@colclose\def\beamer@colclose{}%
2242 \begin{actionenv}#3%
2243     \setkeys{beamer@col}{#1}%
2244     \begin{minipage}[\beamer@colalign]{#2}%
2245         \leavevmode\bidi@beamer@ragged\beamer@colheadskip\ignorespaces}
2246     {\end{minipage}\hfill\end{actionenv}\@ignoretrue}
2247 \let\endcolumn\endbeamer@columnenv
2248
2249 \renewcommand<>\beamer@columncom[2][\beamer@colmode]{%
2250 \beamer@colclose%
2251 \def\beamer@colclose{\end{minipage}\hfill\end{actionenv}\ignorespaces}%
2252 \begin{actionenv}#3%
2253     \setkeys{beamer@col}{#1}%
2254     \begin{minipage}[\beamer@colalign]{#2}%
2255         \leavevmode\bidi@beamer@ragged\beamer@colheadskip\ignorespaces}
2256
2257 \renewenvironment<>{columns}[1][\%
2258 \begin{actionenv}#2%
2259 \ifbeamer@onlytextwidth
2260     \def\beamer@colentrycode{\hbox to\textwidth\bgroup\ignorespaces}%
2261     \def\beamer@colexitcode{\unskip\egroup}
2262 \else%
2263     \def\beamer@colentrycode{%
2264         \hbox to\textwidth\bgroup%
2265         \leavevmode%
2266         \hskip-\beamer@leftmargin%

```




```

2267 \nobreak%
2268 \beamer@tempdim=\textwidth%
2269 \advance\beamer@tempdim by\beamer@leftmargin%
2270 \advance\beamer@tempdim by\beamer@rightmargin%
2271 \hbox to\beamer@tempdim\bgroup%
2272 \hbox{}\hfill\ignorespaces}%
2273 \def\beamer@colexitcode{\egroup%
2274 \nobreak%
2275 \hskip-\beamer@rightmargin\egroup}%
2276 \fi%
2277 \ifbeamer@centered\setkeys{beamer@col}{c}\else\setkeys{beamer@col}{t}\fi%
2278 \setkeys{beamer@col}{#1}%
2279 \par%
2280 \leavevmode
2281 \beamer@colentrycode%
2282 \def\beamer@colclose{}\ignorespaces}%
2283 {\beamer@colclose\def\beamer@colclose{}\beamer@colexitcode\end{actionenv}}%
2284
2285
2286 \def\@makeRTLfntext#1{%
2287 \def\insertfootnotetext{#1}%
2288 \def\insertfootnotemark{\@makefnmark}%
2289 \usebeamertemplate***{RTLfootnote}}
2290
2291 \def\@makeLTRfntext#1{%
2292 \def\insertfootnotetext{#1}%
2293 \def\insertfootnotemark{\@makefnmark}%
2294 \usebeamertemplate***{LTRfootnote}}
2295
2296 \renewcommand<>\beamer@framefootnotetext[1]{%
2297 \global\setbox\beamer@footins\vbox{%
2298 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
2299 \hsize\framewidth
2300 \textwidth\hsize
2301 \columnwidth\hsize
2302 \unvbox\beamer@footins
2303 \reset@font
2304 \bidi@@footnotetext@font
2305 \@parboxrestore
2306 \protected@edef\@currentlabel
2307 {\csname p@footnote\endcsname\@thefnmark}%
2308 \color@begingroup
2309 \uncover#2{\@makefntext{%
2310 \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}}}%
2311 \color@endgroup}}
2312
2313 \renewcommand<>\beamer@frameRTLfootnotetext[1]{%
2314 \global\setbox\beamer@footins\vbox{%
2315 \@RTLtrue
2316 \hsize\framewidth
2317 \textwidth\hsize
2318 \columnwidth\hsize
2319 \unvbox\beamer@footins
2320 \reset@font

```



```

2321 \bidi@RTLfootnotetext@font
2322 \@parboxrestore
2323 \protected@edef\@currentlabel
2324     {\csname p@footnote\endcsname\@thefnmark}%
2325 \color@begingroup
2326     \uncover#2{\@makeRTLfntext{%
2327         \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2328     \color@endgroup}}
2329
2330 \renewcommand<>\beamer@frameLTRfootnotetext[1]{%
2331     \global\setbox\beamer@footins\vbox{%
2332         \RTLfalse
2333         \hsize\framewidth
2334         \textwidth\hsize
2335         \columnwidth\hsize
2336         \unvbox\beamer@footins
2337         \reset@font
2338         \bidi@LTRfootnotetext@font
2339         \@parboxrestore
2340         \protected@edef\@currentlabel
2341             {\csname p@footnote\endcsname\@thefnmark}%
2342         \color@begingroup
2343             \uncover#2{\@makeLTRfntext{%
2344                 \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2345             \color@endgroup}}
2346
2347 \renewcommand<>\@mpfootnotetext[1]{%
2348 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\ifRTL@footnote\global\let\bidi@mpfootnoterule
2349 \global\setbox\@mpfootins\vbox{%
2350     \unvbox\@mpfootins
2351     \ifRTL@footnote\RTLtrue\else\RTLfalse\fi
2352     \reset@font
2353     \bidi@footnotetext@font
2354     \hsize\columnwidth
2355     \@parboxrestore
2356     \protected@edef\@currentlabel
2357         {\csname p@mpfootnote\endcsname\@thefnmark}%
2358     \color@begingroup
2359         \uncover#2{\@makefntext{%
2360             \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2361         \color@endgroup}}
2362
2363 \renewcommand<>\@mpRTLfootnotetext[1]{%
2364 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@footnoterule
2365 \global\setbox\@mpfootins\vbox{%
2366     \unvbox\@mpfootins
2367     \RTLtrue
2368     \reset@font
2369     \bidi@RTLfootnotetext@font
2370     \hsize\columnwidth
2371     \@parboxrestore
2372     \protected@edef\@currentlabel
2373         {\csname p@mpfootnote\endcsname\@thefnmark}%
2374     \color@begingroup

```



```

2375     \uncover#2{\@makeRTLfntext{%
2376         \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}}%
2377     \color@endgroup}}
2378
2379 \renewcommand<>\@mpLTRfootnotetext[1]{%
2380 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footnot
2381     \global\setbox\@mpfootins\vbox{%
2382     \unvbox\@mpfootins
2383     \@RTLfalse
2384     \reset@font
2385     \bidi@@LTRfootnotetext@font
2386     \hsize\columnwidth
2387     \@parboxrestore
2388     \protected@edef\@currentlabel
2389         {\csname p@mpfootnote\endcsname\@thefnmark}%
2390     \color@begingroup
2391         \uncover#2{\@makeLTRfntext{%
2392             \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}}%
2393         \color@endgroup}}
2394
2395 \let\@footnotetext=\beamer@framefootnotetext
2396 \let\@RTLfootnotetext=\beamer@frameRTLfootnotetext
2397 \let\@LTRfootnotetext=\beamer@frameLTRfootnotetext
2398
2399 \footdir@temp\footdir@ORG@bidi@beamer@footnotetext\@footnotetext{\bidi@footdir@footnote}%
2400 \footdir@temp\footdir@ORG@bidi@beamer@RTLfootnotetext\@RTLfootnotetext{R}%
2401 \footdir@temp\footdir@ORG@bidi@beamer@LTRfootnotetext\@LTRfootnotetext{L}%
2402
2403 \renewcommand<>{\footnote}[1][ ]{%
2404     \let\beamer@footnotetext=\@footnotetext%
2405     \let\beamer@mpfn=\@mpfn%
2406     \let\beamer@thempfn=\thempfn%
2407     \let\beamer@kvorig=\KV@errx%
2408     \let\beamer@xkvorig=\XKV@err
2409     \def\beamer@footarg{}%
2410     \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2411     \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2412     \setkeys{beamerfootnote}{#1}%
2413     \let\KV@errx=\beamer@kvorig%
2414     \let\XKV@errx=\beamer@xkvorig
2415     \ifx\beamer@footarg\@empty%
2416         \def\beamer@next{\stepcounter\beamer@mpfn
2417             \protected@xdef\@thefnmark{\beamer@thempfn}%
2418             \@footnotemark\beamer@footnotetext#2}%
2419     \else%
2420         \def\beamer@next{%
2421             \begingroup
2422                 \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2423                 \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2424             \endgroup
2425             \@footnotemark\beamer@footnotetext#2}%
2426     \fi%
2427     \beamer@next}
2428

```



```

2429 \renewcommand<>{\RTLfootnote}[1] [] {%
2430   \let\beamer@RTLfootnotetext=\@RTLfootnotetext%
2431   \let\beamer@mpfn=\@mpfn%
2432   \let\beamer@thempfn=\thempfn%
2433   \let\beamer@kvorig=\KV@errx%
2434   \let\beamer@xkvorig=\XKV@err
2435   \def\beamer@footarg{%
2436     \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2437     \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2438     \setkeys{beamerfootnote}{#1}%
2439     \let\KV@errx=\beamer@kvorig%
2440     \let\XKV@errx=\beamer@xkvorig
2441     \ifx\beamer@footarg\@empty%
2442       \def\beamer@next{\stepcounter\beamer@mpfn
2443         \protected@xdef\@thefnmark{\beamer@thempfn}%
2444         \@footnotemark\beamer@RTLfootnotetext#2}%
2445     \else%
2446       \def\beamer@next{%
2447         \begingroup
2448           \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2449           \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2450         \endgroup
2451         \@footnotemark\beamer@RTLfootnotetext#2}%
2452     \fi%
2453   \beamer@next}
2454
2455 \renewcommand<>{\LTRfootnote}[1] [] {%
2456   \let\beamer@LTRfootnotetext=\@LTRfootnotetext%
2457   \let\beamer@mpfn=\@mpfn%
2458   \let\beamer@thempfn=\thempfn%
2459   \let\beamer@kvorig=\KV@errx%
2460   \let\beamer@xkvorig=\XKV@err
2461   \def\beamer@footarg{%
2462     \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2463     \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2464     \setkeys{beamerfootnote}{#1}%
2465     \let\KV@errx=\beamer@kvorig%
2466     \let\XKV@errx=\beamer@xkvorig
2467     \ifx\beamer@footarg\@empty%
2468       \def\beamer@next{\stepcounter\beamer@mpfn
2469         \protected@xdef\@thefnmark{\beamer@thempfn}%
2470         \@footnotemark\beamer@LTRfootnotetext#2}%
2471     \else%
2472       \def\beamer@next{%
2473         \begingroup
2474           \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2475           \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2476         \endgroup
2477         \@footnotemark\beamer@LTRfootnotetext#2}%
2478     \fi%
2479   \beamer@next}
2480
2481

```



20 File beamerbaseframesize-xetex-bidi.def

```

2482 \ProvidesFile{beamerbaseframesize-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamer]
2483 \def\beamer@framezoom<#1><#2>[#3](#4,#5)(#6,#7){%
2484   \par\nointerlineskip%
2485   \global\beamer@slidehaszoomtrue%
2486   \advance\beamer@zoomcount by1\relax%
2487   \def\beamer@zoomborderwidth{0}%
2488   \edef\beamer@labelzoomed{\beamer@labelzoomed@the\beamer@zoomframecount @the\beamer@zoomcount}%
2489   \setkeys{beamerzoom}{#3}%
2490   \only<#1>{%
2491     {\hypersetup{pdfhighlight={/P},pdfborder={0 0 \beamer@zoomborderwidth}}}%
2492     \global\setbox\@tempboxa=\vbox{\hyperlink{\beamer@labelzoomed}{%
2493       \expandafter\ifx\csname XeTeXrevision\endcsname\relax
2494         \vbox to #7{%
2495           \hbox to#6{\hfil}%
2496           \vfil%
2497         }%
2498       \else%
2499         \begingroup%
2500         \normalsize%
2501         \begin{pgfpicture}{0pt}{0pt}{#6}{#7}%
2502           \pgfsetfillopacity{0}
2503           \pgftext[x=0cm,y=3pt]{.}
2504           \pgftext[x=#6,y=\dimexpr#7-\baselineskip+3pt]{.}
2505           \end{pgfpicture}%
2506         \endgroup%
2507       \fi%
2508     }%
2509     \ht\@tempboxa=0pt%
2510     \wd\@tempboxa=0pt%
2511     \dp\@tempboxa=0pt%
2512     \setbox\@tempboxa=\vbox{\if@RTL\moveleft\else\moveright\fi#4\hbox{\lower#5\vbox{\box\@tempboxa}}}%
2513     \ht\@tempboxa=0pt%
2514     \wd\@tempboxa=0pt%
2515     \dp\@tempboxa=0pt%
2516     \global\setbox\beamer@zoombox=\vbox to0pt{\unvbox\beamer@zoombox\box\@tempboxa}%
2517   }%
2518   \only<#2>{%
2519     \ifundefined{\beamer@labelzoomed}%
2520     {%
2521       \hypertarget{\beamer@labelzoomed}{}%
2522       \expandafter\gdef\csname\beamer@labelzoomed\endcsname{}%
2523     }%
2524     \gdef\beamer@zoomer{%
2525       % compute zoom factor
2526       \@tempdima=\beamer@frametextheight%
2527       \@tempdimb=#7\relax%
2528       \@tempcnta=\@tempdimb%
2529       \divide\@tempcnta by4096\relax%
2530       \multiply\@tempdima by16\relax%
2531       \divide\@tempdima by\@tempcnta%
2532       \@tempdimb=\paperwidth%
2533       \ifbeamer@plainframe%

```



```

2534 \else%
2535 \advance\@tempdimb by-\beamer@leftsidebar%
2536 \advance\@tempdimb by-\beamer@rightsidebar\relax%
2537 \fi%
2538 \@tempdimc=#6\relax%
2539 \@tempcntb=\@tempdimc%
2540 \divide\@tempcntb by4096\relax%
2541 \multiply\@tempdimb by16\relax%
2542 \divide\@tempdimb by\@tempcntb%
2543 \ifdim\@tempdimb<\@tempdima%
2544 \@tempdima=\@tempdimb%
2545 \fi%
2546 \edef\beamer@temp{\strip@pt\@tempdima}%
2547 \@tempdimc=\beamer@frametextheight%
2548 \advance\@tempdimc by4pt%
2549 \@tempdimb=\paperwidth%
2550 \ifbeamer@plainframe%
2551 \else%
2552 \advance\@tempdimb by-\beamer@leftsidebar%
2553 \advance\@tempdimb by-\beamer@rightsidebar\relax%
2554 \fi%
2555 \setbox\@tempboxa=\vbox{\hsize=\@tempdimb\Acrobatmenu{GoBack}{\vbox to
2556 \beamer@frametextheight{\hbox to\@tempdimb{\hfil}\vfil}}}%
2557 \ht\@tempboxa=0pt%
2558 \wd\@tempboxa=0pt%
2559 \dp\@tempboxa=0pt%
2560 \setbox\beamer@framebox=\vbox to\beamer@frametextheight{%
2561 \ifbeamer@plainframe\beamer@leftmargin=\Gm@lmargin\fi%
2562 \if@RTL
2563 \begin{pgfpicture}{\paperwidth-\beamer@leftmargin}{-\beamer@frametextheight}{\pape
2564 \pgftext[right,top]{\box\@tempboxa}
2565 \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2566 \pgfusepath{clip}
2567 \begingroup
2568 \pgftransformscale{\beamer@temp}
2569 \@tempdima=#4\relax%
2570 \@tempdimb=#5\relax%
2571 {\pgftransformshift{\pgfpoint{\@tempdima+#6}{\@tempdimb}}}%
2572 \pgftext[right,top]{\vbox{\vbox{} \nointerlineskip\unvbox\beamer@framebox}}
2573 \endgroup
2574 \end{pgfpicture}}%
2575 \else
2576 \begin{pgfpicture}{\beamer@leftmargin}{-\beamer@frametextheight}{\beamer@leftmargi
2577 \pgftext[left,top]{\box\@tempboxa}
2578 \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2579 \pgfusepath{clip}
2580 \begingroup
2581 \pgftransformscale{\beamer@temp}
2582 \@tempdima=#4\relax%
2583 \@tempdimb=#5\relax%
2584 {\pgftransformshift{\pgfpoint{-\@tempdima}{\@tempdimb}}}%
2585 \pgftext[left,top]{\vbox{\vbox{} \nointerlineskip\unvbox\beamer@framebox}}
2586 \endgroup
2587 \end{pgfpicture}}%

```



```

2588         \fi
2589     } }%
2590     \setbox\beamer@framebox=\vbox{%
2591         \nobreak\vbox{}\nobreak\par\nobreak\beamer@entrycode\nobreak%
2592         \nointerlineskip\unvbox\beamer@frametitlebox%
2593         \nobreak%
2594         \box\beamer@framebox%
2595         \nobreak%
2596         \vss%
2597         \beamer@exitcode%
2598     }%
2599     \global\setbox\beamer@footins=\box\voidb@x% no footnotes in zoomed slides
2600 }%
2601 }%
2602 }
2603
2604

```

21 File beamerbaselocalstructure-xetex-bidi.def

```

2605 \ProvidesFile{beamerbaselocalstructure-xetex-bidi.def}[2022/05/24 v0.1 bidi adaptations for
2606 \def\beamer@enum{%
2607     \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2608     \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2609     \bgroup
2610     \usebeamerfont{fg}{itemize/enumerate \beameritemnestingprefix body}%
2611     \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2612     \egroup
2613     \expandafter
2614     \list
2615     {\usebeamertemplate{\beamer@enumtempl}}
2616     {\usecounter\@enumctr%
2617         \def\makelabel##1{\hss\llap{%
2618             \usebeamerfont*{enumerate \beameritemnestingprefix item}%
2619             \usebeamerfont{fg}{enumerate \beameritemnestingprefix item}##1}}}%
2620     \beamer@cramped%
2621     \bidi@beamer@ragged%
2622     \beamer@firstlineitemizeunskip%
2623 }
2624
2625 \renewcommand{\itemize}[1][ ]{%
2626     \ifblank{#1}{\def\beamer@defaulttospec{#1}}%
2627     \ifnum \@itemdepth >2\relax\@toodeep\else
2628         \advance\@itemdepth\@ne
2629         \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2630         \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2631         \bgroup
2632         \usebeamerfont{fg}{itemize/enumerate \beameritemnestingprefix body}%
2633         \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2634         \egroup
2635         \list
2636         {\usebeamertemplate{itemize \beameritemnestingprefix item}}
2637         {\def\makelabel##1{%
2638             {%

```



```

2639         \hss\llap{%
2640             \usebeamerfont*{itemize \beameritemnestingprefix item}%
2641             \usebeamerfont{description \beameritemnestingprefix item}%
2642         }%
2643     }%
2644 }
2645 \fi%
2646 \beamer@cramped%
2647 \bidi@beamer@ragged%
2648 \beamer@firstlineitemizeunskip%
2649 }
2650
2651 \def\@@description{%
2652     \advance\beamer@descdefault by \labelsep%
2653     \usebeamerfont{description body}%
2654     \bgroup
2655     \usebeamerfont{description body}%
2656     \usebeamertemplate{description body begin}%
2657     \egroup
2658     \list
2659     {}
2660     {\labelwidth\beamer@descdefault\leftmargin\beamer@descdefault\let\makelabel\beamer@descrip
2661     \beamer@cramped%
2662     \bidi@beamer@ragged
2663     \beamer@firstlineitemizeunskip%
2664 }
2665
2666 \renewenvironment{thebibliography}[1]
2667 {%\leavevmode\unskip%
2668 \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
2669 \bidi@thebibliography@font@hook%
2670 \list{\@biblabel{\@arabic\c@enumiv}}%
2671     {\settowidth\labelwidth{\beamer@biblabeltemplate{\@biblabel{#1}}}%
2672     \leftmargin\labelwidth
2673     \advance\leftmargin\labelsep
2674     \itemsep=0pt%
2675     \partopsep=0pt%
2676     \topsep=0pt%
2677     \usecounter{enumiv}%
2678     \let\p@enumiv\@empty
2679     \renewcommand\theenumiv{\@arabic\c@enumiv}
2680     \let\makelabel\beamer@biblabeltemplate}%
2681 \sloppy\bidi@beamer@ragged
2682 \clubpenalty10000
2683 \@clubpenalty \clubpenalty
2684 \widowpenalty10000%
2685 \sfcode`\.\@m}
2686 {\def\@noitemerr
2687     {\@latex@warning{Empty `thebibliography' environment}}%
2688 \ifhmode\unskip\fi\endlist}
2689
2690

```



22 File beamerbasemisc-xetex-bidi.def

```
2691 \ProvidesFile{beamerbasemisc-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamerbase
2692 \define@key{beamerst}{width}{%
2693   \def\beamer@ststart{%
2694     \begin{minipage}[t]{#1}%
2695       \bidi@beamer@ragged
2696       \beamer@stalign
2697       \beamer@stlinebreakrule
2698     }%
2699   \def\beamer@stend{\end{minipage}}%
2700
2701
```

23 File beamerbasenavigation-xetex-bidi.def

```
2702 \ProvidesFile{beamerbasenavigation-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for beam
2703 \def\slideentry#1#2#3#4#5#6{%
2704   %section number, subsection number, slide number, first/last frame, page number, part numb
2705   \ifnum#6=\c@part\ifnum#1>0\ifnum#3>0%
2706     \ifbeamer@compress%
2707       \advance\beamer@xpos by1\relax%
2708     \else%
2709       \ifnum#2=0%
2710         \beamer@ypos@offset=1\relax%
2711       \fi
2712       \beamer@xpos=#3\relax%
2713       \beamer@ypos=#2\relax%
2714       \advance\beamer@ypos by \beamer@ypos@offset\relax
2715     \fi%
2716   \hbox to 0pt{%
2717     \beamer@tempdim=-\beamer@vboxoffset%
2718     \advance\beamer@tempdim by-\beamer@boxsize%
2719     \multiply\beamer@tempdim by\beamer@ypos%
2720     \advance\beamer@tempdim by -.05cm%
2721     \raise\beamer@tempdim\hbox{%
2722       \beamer@tempdim=\beamer@boxsize%
2723       \multiply\beamer@tempdim by\beamer@xpos%
2724       \advance\beamer@tempdim by -\beamer@boxsize%
2725       \advance\beamer@tempdim by 1pt%
2726       \kern\beamer@tempdim
2727       \global\beamer@section@min@dim\beamer@tempdim
2728       \hbox{\beamer@link(#4){%
2729         \usebeamerfont{mini frame}%
2730         \ifnum\c@section=#1%
2731           \ifnum\c@subsection=#2%
2732             \usebeamercolor[fg]{mini frame}%
2733             \ifnum\c@subsectionslide=#3%
2734               \usebeamertemplate{mini frame}%\beamer@minislidehighlight%
2735             \else%
2736               \usebeamertemplate{mini frame in current subsection}%\beamer@minisliderowhil
2737             \fi%
2738           \else%
2739             \usebeamercolor{mini frame}%

```



```

2740         %\color{fg!50!bg}%
2741         \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2742         \fi%
2743     \else%
2744         \usebeamercolor{mini frame}%
2745         %\color{fg!50!bg}%
2746         \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2747         \fi%
2748     }}}} \hskip-10cm plus 1fil%
2749 } \fi \fi%
2750 \else%
2751 \fakeslideentry{#1}{#2}{#3}{#4}{#5}{#6}%
2752 \fi \ignorespaces
2753 }
2754
2755 \pgfdefobject{bidi@beamer@RTL@gotosymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2756 {
2757     \pgfpathmoveto{3.5bp}{0.5bp}
2758     \pgfpathqlineto{1.5bp}{2bp}
2759     \pgfpathqlineto{3.5bp}{3.5bp}
2760     \pgfusepathqfill
2761 }
2762
2763 \def\insertgotosymbol{%
2764 \if@RTL
2765     \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2766         \pgfuseobject{bidi@beamer@RTL@gotosymbol}%
2767     \end{pgfpicture}%
2768 \else
2769     \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2770         \pgfuseobject{beamer@gotosymbol}%
2771     \end{pgfpicture}%
2772 \fi
2773 }
2774
2775 \pgfdefobject{bidi@beamer@RTL@skipsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{7pt}{5pt}}
2776 {
2777     \pgfpathmoveto{5.5bp}{0.5bp}
2778     \pgfpathqlineto{3.5bp}{2bp}
2779     \pgfpathqlineto{5.5bp}{3.5bp}
2780     \pgfpathmoveto{3.5bp}{0.5bp}
2781     \pgfpathqlineto{1.5bp}{2bp}
2782     \pgfpathqlineto{3.5bp}{3.5bp}
2783     \pgfusepathqfill
2784 }
2785
2786 \def\insertskipsymbol{%
2787 \if@RTL
2788     \begin{pgfpicture}{-1pt}{0pt}{6pt}{5pt}
2789         \pgfuseobject{bidi@beamer@RTL@skipsymbol}%
2790     \end{pgfpicture}%
2791 \else
2792     \begin{pgfpicture}{1pt}{0pt}{8pt}{5pt}
2793         \pgfuseobject{beamer@skipsymbol}%

```



```

2794 \end{pgfpicture}%
2795 \fi
2796 }
2797
2798 \pgfdefobject{bidi@beamer@RTL@returnsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2799 {
2800 \pgfpathmoveto{1.5bp}{0.5bp}
2801 \pgfpathqlineto{3.5bp}{2bp}
2802 \pgfpathqlineto{1.5bp}{3.5bp}
2803 \pgfusepathqfill
2804 }
2805
2806 \def\insertreturnsymbol{%
2807 \if@RTL
2808 \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2809 \pgfuseobject{bidi@beamer@RTL@returnsymbol}%
2810 \end{pgfpicture}%
2811 \else
2812 \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2813 \pgfuseobject{beamerreturnsymbol}%
2814 \end{pgfpicture}%
2815 \fi
2816 }
2817
2818

```

24 File beamerbaseoverlay-xetex-bidi.def

```

2819 \ProvidesFile{beamerbaseoverlay-xetex-bidi.def}[2022/06/10 v0.1 bidi adaptations for beamer]
2820 \renewcommand<>{\color}{\alt#1{\beameroriginal{\color}}{\beamer@gobbleoptionalinsp}}
2821
2822

```

25 File beamerinnerthemedefault-xetex-bidi.def

```

2823 \ProvidesFile{beamerinnerthemedefault-xetex-bidi.def}[2022/06/27 v0.6 bidi adaptations for beamer]
2824 \newcommand*{\bidi@beamer@leftskip}{%
2825 \if@RTL
2826 \rightskip
2827 \else
2828 \leftskip
2829 \fi
2830 }
2831
2832 \newcommand*{\bidi@beamer@rightskip}{%
2833 \if@RTL
2834 \leftskip
2835 \else
2836 \rightskip
2837 \fi
2838 }
2839
2840 \bidi@csundef{beamer@tmpop@subsection in toc@default}
2841

```



```

2842 \bidi@csundef{beamer@@tmpop@subsubsection in toc@default}
2843
2844 \defbeamertemplate*{subsection in toc}{default}
2845 {\leavevmode\bidi@beamer@leftskip=1.5em\inserttocsubsection\par}
2846
2847 \defbeamertemplate*{subsubsection in toc}{default}
2848 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3em%
2849 \usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
2850
2851 \newcommand*{\bidi@beamer@blacktriangle}{%
2852 \if@RTL
2853   $\blacktriangleleft$%
2854 \else
2855   $\blacktriangleright$%
2856 \fi
2857 }
2858
2859 \bidi@csundef{beamer@@tmpop@itemize item@default}
2860
2861 \bidi@csundef{beamer@@tmpop@itemize subitem@default}
2862
2863 \bidi@csundef{beamer@@tmpop@itemize subsubitem@default}
2864
2865 \defbeamertemplate*{itemize item}{default}{\usebeamerfont*{itemize item}\raise1.25pt\hbox{\d
2866 \defbeamertemplate*{itemize subitem}{default}{\usebeamerfont*{itemize subitem}\raise1.5pt\hb
2867 \defbeamertemplate*{itemize subsubitem}{default}{\usebeamerfont*{itemize subsubitem}\raise1.
2868
2869 \bidi@undef\beamer@@tmpop@footnote@default
2870
2871 \defbeamertemplate*{footnote}{default}
2872 {
2873 \parindent 1em\noindent%
2874 \bidi@beamer@ragged
2875 \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2876 }
2877
2878 \defbeamertemplate*{RTLfootnote}{default}
2879 {
2880 \parindent 1em\noindent%
2881 \raggedleft
2882 \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2883 }
2884
2885 \defbeamertemplate*{LTRfootnote}{default}
2886 {
2887 \parindent 1em\noindent%
2888 \raggedright
2889 \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2890 }
2891
2892 \bidi@undef\beamer@@tmpop@caption@default
2893
2894 \defbeamertemplate*{caption}{default}
2895 {%

```



```

2896 \bidi@beamer@ragged
2897 {%
2898   \leavevmode
2899   \usebeamercolor[fg]{caption name}%
2900   \usebeamerfont*{caption name}%
2901   \insertcaptionname
2902   \usebeamertemplate{caption label separator}%
2903 }%
2904 \insertcaption\par
2905 }
2906
2907 \bidi@csundef{beamer@@tmpop@block begin@default}
2908
2909 \bidi@csundef{beamer@@tmpop@block alerted begin@default}
2910
2911 \bidi@csundef{beamer@@tmpop@block example begin@default}
2912
2913 \defbeamertemplate*{block begin}{default}
2914 {
2915   \par\vskip\medskipamount%
2916   \begin{beamercolorbox}[colsep*=.75ex]{block title}
2917     \usebeamerfont*{block title}\insertblocktitle%
2918   \end{beamercolorbox}%
2919   {\parskip0pt\par}%
2920   \ifbeamercolorempy[bg]{block title}
2921   {}
2922   {\ifbeamercolorempy[bg]{block body}{\nointerlineskip\vskip-0.5pt}}%
2923   \usebeamerfont{block body}%
2924   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body}%
2925     \ifbeamercolorempy[bg]{block body}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\baselineskip}
2926   }
2927
2928 \defbeamertemplate*{block alerted begin}{default}
2929 {
2930   \par\vskip\medskipamount%
2931   \begin{beamercolorbox}[colsep*=.75ex]{block title alerted}
2932     \usebeamerfont*{block title alerted}\insertblocktitle%
2933   \end{beamercolorbox}%
2934   {\parskip0pt\par}%
2935   \ifbeamercolorempy[bg]{block title alerted}
2936   {}
2937   {\ifbeamercolorempy[bg]{block body alerted}{\nointerlineskip\vskip-0.5pt}}%
2938   \usebeamerfont{block body alerted}%
2939   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body alerted}%
2940     \ifbeamercolorempy[bg]{block body alerted}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\baselineskip}
2941   }
2942
2943 \defbeamertemplate*{block example begin}{default}
2944 {
2945   \par\vskip\medskipamount%
2946   \begin{beamercolorbox}[colsep*=.75ex]{block title example}
2947     \usebeamerfont*{block title example}\insertblocktitle%
2948   \end{beamercolorbox}%
2949   {\parskip0pt\par}%

```



```

2950 \ifbeamercolorempy[bg]{block title example}
2951 {}
2952 {\ifbeamercolorempy[bg]{block body example}{\nointerlineskip\vskip-0.5pt}}%
2953 \usebeamerfont{block body example}%
2954 \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body example}%
2955   \ifbeamercolorempy[bg]{block body example}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex}
2956 }
2957
2958 \bidi@csundef{beamer@@tmpop@abstract begin@default}
2959
2960 \defbeamerteremplate*{abstract begin}{default}
2961 {\beamercolorbox[vmode]{abstract}\bidi@beamer@leftskip2em\bidi@beamer@rightskip2em plus 1fil}
2962
2963 \bidi@undef{beamer@@tmpop@button@default}
2964
2965 \defbeamerteremplate*{button}{default}
2966 {%
2967   \setbox\beamer@tempbox=\hbox{\insertbuttontext}}%
2968   \ht\beamer@tempbox=6pt%
2969   \dp\beamer@tempbox=0pt%
2970   \setbox\beamer@tempbox=\vbox{\box\beamer@tempbox\vskip2pt}%
2971   \beamer@tempdim=\wd\beamer@tempbox%
2972   \beamer@dima=\beamer@tempdim\advance\beamer@dima by2.2pt
2973   \beamer@dimb=\beamer@tempdim\advance\beamer@dimb by4pt
2974   \if@RTL
2975     \kern4pt%
2976     \box\beamer@tempbox%
2977     \hskip-\beamer@tempdim%
2978   \fi
2979   \begin{pgfpicture}{-4pt}{0pt}{\the\beamer@tempdim}{8pt}
2980     \color{bg}
2981     \pgfsetlinewidth{0.8pt}
2982     \pgfpathmoveto{0pt}{0pt}
2983     \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2984     \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2985     \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2986     \pgfpathcurveto%
2987       {\pgfpoint{\the\beamer@dima}{8pt}}%
2988     {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
2989     {\pgfpoint{\the\beamer@dimb}{4pt}}
2990     \pgfpathcurveto%
2991       {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
2992     {\pgfpoint{\the\beamer@dima}{0pt}}%
2993     {\pgfpoint{\the\beamer@tempdim}{0pt}}
2994     \pgfpathclose
2995     \pgfusepathqfill
2996     \colorlet{bg}{parent.bg}
2997     \usebeamercolor[fg]{button border}
2998     \pgfpathmoveto{0pt}{0pt}
2999     \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
3000     \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
3001     \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
3002     \pgfpathcurveto%
3003     {\pgfpoint{\the\beamer@dima}{8pt}}%

```



```

3004     {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
3005     {\pgfpoint{\the\beamer@dimb}{4pt}}
3006     \pgfpathcurveto%
3007     {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
3008     {\pgfpoint{\the\beamer@dimb}{0pt}}%
3009     {\pgfpoint{\the\beamer@tempdim}{0pt}}
3010     \pgfpathclose
3011     \pgfusepathqstroke
3012 \end{pgfpicture}%
3013 \if@RTL
3014 \else
3015     \hskip-\beamer@tempdim%
3016     \box\beamer@tempbox%
3017     \kern4pt%
3018 \fi
3019 }
3020
3021

```

26 File beamerinnerthemecircles-xetex-bidi.def

```

3022 \ProvidesFile{beamerinnerthemecircles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations for bea
3023 \setbeamertemplate{sections/subsections in toc}[circle]
3024

```

27 File beamerinnerthemefocus-xetex-bidi.def

```

3025 \ProvidesFile{beamerinnerthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for bea
3026 \setbeamertemplate{section in toc}[square]
3027 \setbeamertemplate{subsection in toc}[square]
3028
3029 \setbeamertemplate{itemize items}[square]
3030 \setbeamertemplate{itemize subitem}[triangle]
3031
3032 \bidi@csundef{beamer@@tmpop@title page@focus}
3033
3034 \defbeamertemplate*{title page}{focus}{%
3035     {%
3036         \usebeamercolor{frametitle}\colorlet{focus@temp}{bg}%
3037         \begin{tikzpicture}[overlay, remember picture]
3038             \fill[color=focus@temp] (current page.north west) rectangle ([shift = {(0, -0.4
3039         \end{tikzpicture}
3040     }
3041
3042     \vspace{-1.65\baselineskip}
3043     \begin{minipage}[b] [0.35\paperheight]{\textwidth}
3044         \vspace{\baselineskip}
3045         \usebeamerfont{title}
3046         \usebeamercolor[fg]{frametitle}
3047         \inserttitle
3048     \end{minipage}
3049
3050     \begin{minipage}[t] [0.1\paperheight]{\textwidth}
3051         \usebeamerfont{subtitle}

```



```

3052         \usebeamercolor[fg]{frametitle}
3053         \insertsubtitle
3054     \end{minipage}
3055
3056     % Set the title graphic in a zero-height box, so that
3057     % the position of other elements is not affected.
3058     {\vfuzz=9999pt\vbox to 0pt {
3059         \if@RTL
3060             \raggedright
3061         \else
3062             \raggedleft
3063         \fi
3064         \inserttitlegraphic
3065     }}
3066
3067     \begin{minipage}[t]{\textwidth}
3068         \usebeamerfont{author}
3069         \insertauthor
3070     \end{minipage}
3071
3072     \vspace*{\baselineskip}
3073     \begin{minipage}[t]{\textwidth}
3074         \usebeamerfont{institute}
3075         \insertinstitute
3076     \end{minipage}
3077
3078     \vspace*{\baselineskip}
3079     \begin{minipage}[t]{\textwidth}
3080         \usebeamerfont{date}
3081         \insertdate
3082     \end{minipage}
3083
3084     \vspace*{0pt plus 100fill}
3085
3086     \addtocounter{framenum}{-1}
3087     \addtocounter{realframenum}{-1}
3088 }
3089
3090
3091

```

28 File beamerinnerthemeinmargin-xetex-bidi.def

```

3092 \ProvidesFile{beamerinnerthemeinmargin-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for
3093 \AtBeginDocument{%
3094     \setbeamersize{sidebar width left=.25\paperwidth}%
3095 }
3096
3097 \bidi@csundef{beamer@@tmpop@section in toc@inmargin}
3098
3099 \bidi@csundef{beamer@@tmpop@title page@inmargin}
3100
3101 \bidi@csundef{beamer@@tmpop@block begin@inmargin}
3102

```




```

3103 \bidi@csundef{beamer@@tmpop@block end@inmargin}
3104
3105 \bidi@csundef{beamer@@tmpop@block alerted begin@inmargin}
3106
3107 \bidi@csundef{beamer@@tmpop@block alerted end@inmargin}
3108
3109 \bidi@csundef{beamer@@tmpop@block example begin@inmargin}
3110
3111 \bidi@csundef{beamer@@tmpop@block example end@inmargin}
3112
3113 \defbeamertemplate*{section in toc}{inmargin}
3114 {\leavevmode
3115   \beamer@putleft{\usebeamercolor[fg]{section in toc}\inserttocsection}\strut}{2.5ex}}
3116
3117 \defbeamertemplate*{title page}{inmargin}
3118 {
3119   \begin{block}{\inserttitleindicator}
3120     \bgroup\usebeamercolor[fg]{title}\usebeamerfont{title}\inserttitle\egroup\par
3121     \usebeamercolor[fg]{subtitle}\usebeamerfont{subtitle}\insertsubtitle
3122   \end{block}
3123   \vfill
3124   \ifx\insertauthor\@empty
3125   \else
3126     \begin{block}{\insertauthorindicator}
3127       \bgroup\usebeamercolor[fg]{author}\usebeamerfont{author}\insertauthor\egroup\par
3128     \end{block}
3129     \fi
3130     \ifx\insertinstitute\@empty
3131     \else
3132       \begin{block}{\insertinstituteindicator}
3133         \bgroup\usebeamercolor[fg]{institute}\usebeamerfont{institute}\insertinstitute\egroup\par
3134       \end{block}
3135       \fi
3136       \ifx\insertdate\@empty
3137       \else
3138         \begin{block}{\insertdateindicator}
3139           \bgroup\usebeamercolor[fg]{date}\usebeamerfont{date}\insertdate\egroup\par
3140         \end{block}
3141         \fi
3142     }
3143
3144 \defbeamertemplate*{block begin}{inmargin}
3145 {
3146   \par\vskip\medskipamount%
3147   \leavevmode%
3148   \beamer@putleft{\normalfont\usebeamercolor[fg]{block title}\usebeamerfont*{block title}\i
3149   \beginL\beamer@putright
3150   %\usebeamercolor[fg]{block body}% to be done!
3151 }
3152
3153 \defbeamertemplate*{block end}{inmargin}
3154 {\endbeamer@putright\endL\vskip\smallskipamount}
3155
3156 \defbeamertemplate*{block alerted begin}{inmargin}

```



```

3157 {
3158   \par\vskip\medskipamount%
3159   \leavevmode%
3160   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title alerted}}\usebeamerfont*{block
3161   \beginL\beamer@putright
3162   %\usebeamercolor[fg]{block body alerted}% to be done!
3163 }
3164
3165 \defbeamertemplate*{block alerted end}{inmargin}
3166 {\endbeamer@putright\endL\vskip\smallskipamount}
3167
3168 \defbeamertemplate*{block example begin}{inmargin}
3169 {
3170   \par\vskip\medskipamount%
3171   \leavevmode%
3172   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title example}}\usebeamerfont*{block
3173   \beginL\beamer@putright
3174   %\usebeamercolor[fg]{block body example}% to be done
3175 }
3176
3177 \defbeamertemplate*{block example end}{inmargin}
3178 {\endbeamer@putright\endL\vskip\smallskipamount}
3179
3180 \bidi@AfterFile{beamerinnerthememetropolis-xetex-bidi.def}{%
3181   \setbeamertemplate{section in toc}[inmargin]%
3182   \setbeamertemplate{subsection in toc}[inmargin]%
3183   \setbeamertemplate{subsubsection in toc}[inmargin]%
3184 }
3185
3186

```

29 File beamerinnerthememetropolis-xetex-bidi.def

```

3187 \ProvidesFile{beamerinnerthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations fo
3188 \setbeamertemplate{title}{
3189   \bidi@beamer@ragged%
3190   \linespread{1.0}%
3191   \inserttitle%
3192   \par%
3193   \vspace*{0.5em}
3194 }
3195
3196 \setbeamertemplate{subtitle}{
3197   \bidi@beamer@ragged%
3198   \insertsubtitle%
3199   \par%
3200   \vspace*{0.5em}
3201 }
3202
3203 \bidi@csundef{beamer@@tmpop@section page@progressbar}
3204
3205 \defbeamertemplate{section page}{progressbar}{
3206   \centering
3207   \begin{minipage}{22em}

```



```

3208 \bidi@beamer@ragged
3209 \usebeamercolor[fg]{section title}
3210 \usebeamerfont{section title}
3211 \insertsectionhead\[-1ex]
3212 \usebeamertemplate*{progress bar in section page}
3213 \par
3214 \ifx\insertsubsectionhead\@empty\else%
3215 \usebeamercolor[fg]{subsection title}%
3216 \usebeamerfont{subsection title}%
3217 \insertsubsectionhead
3218 \fi
3219 \end{minipage}
3220 \par
3221 \vspace{\baselineskip}
3222 }
3223
3224 \setbeamertemplate{progress bar in section page}{
3225 \setlength{\metropolis@progressonsectionpage}{%
3226 \textwidth * \ratio{\insertframenumber pt}{\inserttotalframenumber pt}}%
3227 }%
3228 \begin{tikzpicture}
3229 \fill[bg] (0,0) rectangle (\textwidth, \metropolis@progressonsectionpage@linewidth);
3230 \if@RTLmain
3231 \fill[fg] (\textwidth-\metropolis@progressonsectionpage,0) rectangle (\textwidth, \metropolis@progressonsectionpage@linewidth);
3232 \else
3233 \fill[fg] (0,0) rectangle (\metropolis@progressonsectionpage, \metropolis@progressonsectionpage@linewidth);
3234 \fi
3235 \end{tikzpicture}%
3236 }
3237
3238 \renewcommand{\metropolis@block}[1]{
3239 \par\vskip\medskipamount%
3240 \setlength{\parskip}{0pt}
3241 \ifbeamercolorempy[bg]{block title#1}{%
3242 \if@RTL
3243 \begin{beamercolorbox}[leftskip=0pt plus 4em]{block title#1}%
3244 \else
3245 \begin{beamercolorbox}[rightskip=0pt plus 4em]{block title#1}%
3246 \fi
3247 }{%
3248 \ifbeamercolorempy[bg]{block title}{%
3249 \if@RTL
3250 \begin{beamercolorbox}[leftskip=0pt plus 4em]{block title#1}%
3251 \else
3252 \begin{beamercolorbox}[rightskip=0pt plus 4em]{block title#1}%
3253 \fi
3254 }%
3255 {%
3256 \if@RTL
3257 \begin{beamercolorbox}[
3258 sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3259 rightskip=\metropolis@blockadjust,
3260 leftskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3261 ]{block title#1}%

```



```

3262 \else
3263 \begin{beamercolorbox}[
3264     sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3265     leftskip=\metropolis@blockadjust,
3266     rightskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3267 ]{block title#1}%
3268 \fi
3269 }}%
3270 \usebeamerfont*{block title#1}%
3271 \metropolis@strut%
3272 \insertblocktitle%
3273 \metropolis@strut%
3274 \end{beamercolorbox}%
3275 \nointerlineskip%
3276 \ifbeamercoloreempty[bg]{block body#1}{%
3277     \begin{beamercolorbox}[vmode]{block body#1}}{
3278     \ifbeamercoloreempty[bg]{block body}{%
3279         \begin{beamercolorbox}[vmode]{block body#1}%
3280     }{%
3281         \begin{beamercolorbox}[sep=\metropolis@blocksep, vmode]{block body#1}%
3282         \vspace{-\metropolis@parskip}
3283     }}%
3284     \usebeamerfont{block body#1}%
3285     \setlength{\parskip}{\metropolis@parskip}%
3286 }
3287
3288
3289 \setbeamertemplate{footnote}{%
3290     \parindent 0em\noindent%
3291     \bidi@beamer@ragged
3292     \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3293 }
3294
3295 \setbeamertemplate{RTLfootnote}{%
3296     \parindent 0em\noindent%
3297     \raggedleft
3298     \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3299 }
3300
3301 \setbeamertemplate{LTRfootnote}{%
3302     \parindent 0em\noindent%
3303     \raggedright
3304     \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3305 }
3306
3307 \setbeamertemplate{itemize items}{\textbullet}
3308
3309 \setbeamertemplate{section page}[progressbar]
3310
3311

```

30 File beamerinnerthemerectangles-xetex-bidi.def

```

3312 \ProvidesFile{beamerinnerthemerectangles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations fo

```



```

3313 \setbeamertemplate{sections/subsections in toc}[square]
3314 \setbeamertemplate{items}[square]
3315

```

31 File beamerinnerthemrounded-xetex-bidi.def

```

3316 \ProvidesFile{beamerinnerthemrounded-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for b
3317 \setbeamertemplate{blocks}[rounded] [shadow=\beamer@themrounded@shadow]
3318 \setbeamertemplate{items}[ball]
3319 \setbeamertemplate{sections/subsections in toc}[ball]
3320

```

32 File beamerouterthemedefault-xetex-bidi.def

```

3321 \ProvidesFile{beamerouterthemedefault-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for b
3322 \def\beamer@fteleft{\if@RTLmain\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightskip by1.
3323
3324 \def\beamer@fteright{\if@RTLmain\else\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightski
3325
3326 \AtBeginDocument{%
3327   \if@RTLmain
3328     \setbeamertemplate{frametitle}[default] [right]
3329   \fi
3330 }
3331
3332 \bidi@csundef{beamer@@tmpop@note page@default}
3333
3334 \newcommand*{\bidi@beamer@today}{%
3335 \the\year-\ifnum\month<10\relax0\fi\the\month-\ifnum\day<10\relax0\fi\the\day}
3336
3337 \defbeamertemplate*{note page}{default}
3338 {%
3339   {%
3340     \scriptsize
3341     \usebeamerfont{note title}\usebeamercolor[fg]{note title}%
3342     \ifbeamercolorempy[bg]{note title}{\fi}%
3343     \insertvrule{.25\paperheight}{note title.bg}%
3344     \vskip-.25\paperheight%
3345     \nointerlineskip%
3346   }%
3347   \vbox{
3348     \hfill\insertslideintonotes{0.25}\hskip-\Gm@rmargin\hskip0pt%
3349     \vskip-0.25\paperheight%
3350     \nointerlineskip
3351     \if@RTL
3352       \begin{pgfpicture}{-\textwidth}{0cm}{-\textwidth}{0cm}
3353         \begin{pgflowlevelscope}{\pgftransformrotate{-90}}
3354           {\pgftransformshift{\pgfpoint{2cm}{0.2cm}}}%
3355           \pgftext[base,right]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@
3356         \end{pgflowlevelscope}
3357       \end{pgfpicture}%
3358     \else
3359       \begin{pgfpicture}{0cm}{0cm}{0cm}{0cm}
3360         \begin{pgflowlevelscope}{\pgftransformrotate{90}}

```



```

3361         {\pgftransformshift{\pgfpoint{-2cm}{0.2cm}}}%
3362         \pgftext[base,left]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@B
3363         \end{pgflowlevelslope}
3364         \end{pgfpicture}%
3365         \fi}
3366         \nointerlineskip
3367         \vbox to .25\paperheight{\vskip0.5em
3368         \if@RTL
3369         \moveright0.25\textwidth
3370         \fi
3371         \hbox{\insertshorttitle[width=0.75\textwidth]}}%
3372         \setbox\beamer@tempbox=\hbox{\insertsection}%
3373
3374 \if@RTL
3375 \moveright\dimexpr0.29\textwidth-14pt\relax
3376 \fi
3377 \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip4pt\raise3pt\hbox{\vrule
3378         width0.4pt height7pt\vrule width 9pt
3379         height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}%
3380         \if@RTL\endR\fi}}%
3381         \setbox\beamer@tempbox=\hbox{\insertsubsection}%
3382
3383 \if@RTL
3384 \moveright\dimexpr0.29\textwidth-27.4pt\relax
3385 \fi \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip17.4pt\raise3pt\hbox{\vrule
3386         width0.4pt height7pt\vrule width 9pt
3387         height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}%
3388         \if@RTL\endR\fi}}%
3389         \setbox\beamer@tempbox=\hbox{\insertshortframetitle}%
3390
3391 \if@RTL
3392 \moveright\dimexpr0.33\textwidth-40.8pt\relax
3393 \fi \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip30.8pt\raise3pt\hbox{\vrule
3394         width0.4pt height7pt\vrule width 9pt
3395         height0.4pt}}\hskip1pt\hbox{\insertshortframetitle[width=0.67\textwidth]}\fi%
3396         \if@RTL\endR\fi}}%
3397         \vfil}%
3398 }%
3399 \ifbeamercolorempy[bg]{note page}{\fi}%
3400 \nointerlineskip%
3401 \insertvrule{.75\paperheight}{note page.bg}%
3402 \vskip-.75\paperheight%
3403 }%
3404 \vskip.25em
3405 \nointerlineskip
3406 \insertnote
3407 }
3408
3409
3410

```

33 File beamerouterthemefocus-xetex-bidi.def

```

3411 \ProvidesFile{beamerouterthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for bea

```



```

3412 \bidi@undef\beamer@@tmpop@footline@progressbar
3413
3414 \defbeamertertemplate*{footline}{progressbar}{%
3415   % If not appendix.
3416   \ifnum\mainend<0% From package appendixnumberbeamer.
3417   %
3418   \settowidth{\focus@pbar@leftoffset}{1}%
3419   \addtolength{\focus@pbar@leftoffset}{1.5em}%
3420   %
3421   \ifx\beamer@focus@totalframenummering\no%
3422     \settowidth{\focus@pbar@rightoffset}{}%
3423     \addtolength{\focus@pbar@rightoffset}{0.5em}%
3424   \else%
3425     \settowidth{\focus@pbar@rightoffset}{\inserttotalframenummer}%
3426     \addtolength{\focus@pbar@rightoffset}{1.5em}%
3427   \fi%
3428   %
3429   % If not title page.
3430   \ifnum\value{realframenummer}>0%
3431     \ifnum\value{framenummer}<\inserttotalframenummer%
3432       \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]\usebeamerfont{footli
3433       \pgfmathsetmacro{\focus@pbar@progress}%
3434       {(\paperwidth-\focus@pbar@leftoffset-\focus@pbar@rightoffset)*(\inse
3435
3436       \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3437 \if@RTLmain
3438       \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@leftoff
3439       \fill[footline.bg] (\paperwidth-\the\focus@pbar@leftoffset,0) rectangle
3440       ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=west,
3441 \else
3442       \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@leftoffset,\the\fo
3443       \fill[footline.bg] (\the\focus@pbar@leftoffset,0) rectangle ++(\focus@pb
3444       ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=east,
3445 \fi
3446       \ifx\beamer@focus@totalframenummering\no%
3447       \else%
3448 \if@RTLmain
3449       \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@rightoffset,\t
3450       ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=e
3451 \else
3452       \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@rig
3453       ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=w
3454 \fi
3455       \fi%
3456       \end{tikzpicture}%
3457     \else%
3458       \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]
3459       \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3460       \fill[footline.bg] (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height
3461 \if@RTLmain
3462       \node[anchor=west, footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\
3463 \else
3464       \node[anchor=east, footline.fg] at ({\paperwidth-\the\focus@pbar@rightof
3465 \fi

```



```

3466             \ifx\beamer@focus@totalframenumbers\no%
3467             \else%
3468 \if@RTLmain
3469             \node[footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\focus@pba
3470             \node[anchor=east, footline.fg] at ({\the\focus@pbar@rightoffset},{0
3471 \else
3472             \node[footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.
3473             \node[anchor=west, footline.fg] at ({\paperwidth-\the\focus@pbar@rig
3474 \fi
3475             \fi%
3476             \end{tikzpicture}%
3477             \fi%
3478             \fi%
3479             \fi%
3480 }
3481
3482

```

34 File beamerouterthemeinfoclines-xetex-bidi.def

```

3483 \ProvidesFile{beamerouterthemeinfoclines-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for
3484 \bidi@csundef{beamer@tmpop@footline@infoclines theme}
3485
3486 \defbeamerteremplate*{footline}{infoclines theme}
3487 {%
3488   \leavevmode%
3489   \hbox{%
3490     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{author in head/foot}%
3491     \usebeamerfont{author in head/foot}\insertshortauthor\expandafter\ifblank\expandafter{\b
3492     \end{beamercolorbox}%
3493     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{title in head/foot}%
3494     \usebeamerfont{title in head/foot}\insertshorttitle
3495     \end{beamercolorbox}%
3496     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,leftskip=2ex,rightskip=2ex,s
3497     \hfill%
3498     \usebeamerfont{date in head/foot}%
3499     \insertshortdate{}%
3500     \hfill%
3501     \bgroup
3502     \usebeamerfont{page number in head/foot}%
3503     \usebeamerfont{page number in head/foot}%
3504     \usebeamerfont{page number in head/foot}%
3505     \egroup
3506     \end{beamercolorbox}}%
3507     \vskip0pt%
3508 }
3509
3510 \bidi@csundef{beamer@tmpop@headline@infoclines theme}
3511
3512 \defbeamerteremplate*{headline}{infoclines theme}
3513 {%
3514   \leavevmode%
3515   \hbox{%
3516     \if@RTL

```




```

3517 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{section in head/foot}%
3518 \else
3519 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{section in head/foot}%
3520 \fi
3521 \usebeamerfont{section in head/foot}\insertsectionhead\hspace*{2ex}
3522 \end{beamercolorbox}%
3523 \if@RTL
3524 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{subsection in head/foot}%
3525 \else
3526 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{subsection in head/foot}%
3527 \fi
3528 \usebeamerfont{subsection in head/foot}\hspace*{2ex}\insertsubsectionhead
3529 \end{beamercolorbox}}%
3530 \vskip0pt%
3531 }
3532
3533 \bidi@AfterFile{beamerouterthememsplit-xetex-bidi.def}{%
3534 \setbeamertemplate{footline}[infolines theme]%
3535 }
3536

```

35 File beamerouterthememetropolis-xetex-bidi.def

```

3537 \ProvidesFile{beamerouterthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations fo
3538 \setbeamertemplate{progress bar in head/foot}{
3539 \nointerlineskip
3540 \setlength{\metropolis@progressinheadfoot}{%
3541 \paperwidth * \ratio{\insertframenumber pt}{\inserttotalframenumber pt}}%
3542 }%
3543 \begin{beamercolorbox}[wd=\paperwidth]{progress bar in head/foot}
3544 \begin{tikzpicture}
3545 \fill[bg] (0,0) rectangle (\paperwidth, \metropolis@progressinheadfoot@linewidth);
3546 \if@RTLmain
3547 \fill[fg] (\paperwidth-\metropolis@progressinheadfoot,0) rectangle (\paperwidth, \metr
3548 \else
3549 \fill[fg] (0,0) rectangle (\metropolis@progressinheadfoot, \metropolis@progressinheadf
3550 \fi
3551 \end{tikzpicture}%
3552 \end{beamercolorbox}
3553 }
3554
3555 \AtBeginDocument{%
3556 \setbeamertemplate{frametitle}[plain]%
3557 }
3558
3559

```

36 File beamerouterthememiniframes-xetex-bidi.def

```

3560 \ProvidesFile{beamerouterthememiniframes-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3561 \bidi@csundef{beamer@tmpop@headline@miniframes theme}
3562
3563 \defbeamertemplate*{headline}{miniframes theme}
3564 {%

```



```

3565 \begin{beamercolorbox}[colsep=1.5pt]{upper separation line head}
3566 \end{beamercolorbox}
3567 \begin{beamercolorbox}{section in head/foot}
3568 \vskip2pt\if@RTL\beginR\fi\insertnavigation{\paperwidth}\if@RTL\endR\fi\vskip2pt
3569 \end{beamercolorbox}%
3570 \ifbeamer@theme@subsection%
3571 \begin{beamercolorbox}[colsep=1.5pt]{middle separation line head}
3572 \end{beamercolorbox}
3573 \if@RTL
3574 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3575 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3576 \else
3577 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3578 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3579 \fi
3580 \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3581 \end{beamercolorbox}%
3582 \fi%
3583 \begin{beamercolorbox}[colsep=1.5pt]{lower separation line head}
3584 \end{beamercolorbox}
3585 }
3586
3587

```

37 File beamerouterthemesidebar-xetex-bidi.def

```

3588 \ProvidesFile{beamerouterthemesidebar-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for b
3589 \bidi@csundef{beamer@@tmpop@frametitle@sidebar theme}
3590
3591 \bidi@csundef{beamer@@tmpop@headline@sidebar theme}
3592
3593 \bidi@csundef{beamer@@tmpop@sidebar left@sidebar theme}
3594
3595 \bidi@csundef{beamer@@tmpop@sidebar right@sidebar theme}
3596
3597 \ifdim\beamer@headheight>0pt
3598
3599 \defbeamertemplate*{frametitle}{sidebar theme}
3600 {%
3601 \nointerlineskip%
3602 \ifbeamer@plainframe%
3603 \hbox{\usebeamercolor[bg]{frametitle}%
3604 \@tempdima\paperwidth\advance\@tempdima-\beamer@sidebarwidth
3605 \hskip-\beamer@leftmargin\vrule height\beamer@headheight width\@tempdima\hskip-\bea
3606 \nointerlineskip%
3607 \fi%
3608 \vskip-\beamer@headheight%
3609 \vbox to \beamer@headheight{%
3610 \vfil
3611 \bidi@beamer@leftskip=-\beamer@leftmargin%
3612 \advance\bidi@beamer@leftskip by0.3cm%
3613 \bidi@beamer@rightskip=-\beamer@rightmargin%
3614 \advance\bidi@beamer@rightskip by0.3cm plus1fil%
3615 {\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframetitle\par}

```



```

3616     \ifx\insertframesubtitle\@empty\else%
3617         {\usebeamercolor[fg]{framesubtitle}\usebeamerfont{framesubtitle}\strut\insertframesubtitle}%
3618     \fi%
3619     \vbox{}%
3620     \vskip-1em%
3621     \vfil
3622 }%
3623 }
3624
3625 \AtBeginDocument{%
3626     \setbeamertemplate{frametitle}[sidebar theme]%
3627 }
3628
3629 \defbeamertemplate*{headline}{sidebar theme}
3630 {%
3631     \begin{beamercolorbox}[wd=\paperwidth]{frametitle}
3632     \ifx\beamer@sidebarside\beamer@lefttext%
3633     \else%
3634         \hfill%
3635     \fi%
3636     \ifdim\beamer@sidebarwidth>0pt%
3637         \bgroup
3638         \usebeamercolor[bg]{logo}%
3639         \if@RTLmain
3640         \else
3641             \vrule width\beamer@sidebarwidth height \beamer@headheight%
3642             \hskip-\beamer@sidebarwidth%
3643         \fi
3644         \hbox to \beamer@sidebarwidth{\hss\vbox to
3645             \beamer@headheight{\vss\hbox{{\color{fg}\insertlogo}}\vss}\hss}%
3646         \if@RTLmain
3647             \hskip-\beamer@sidebarwidth%
3648             \vrule width\beamer@sidebarwidth height \beamer@headheight%
3649         \fi
3650         \egroup
3651     \else%
3652         \vrule width0pt height \beamer@headheight%
3653     \fi%
3654     \end{beamercolorbox}
3655 }
3656 \fi
3657
3658 \def\beamer@sidebarformat#1#2#3{%
3659 \if@RTL
3660     \begin{beamercolorbox}[wd=\beamer@sidebarwidth,rightskip=#1,leftskip=1ex plus1fil,vmode]{#2}
3661 \else
3662     \begin{beamercolorbox}[wd=\beamer@sidebarwidth,leftskip=#1,rightskip=1ex plus1fil,vmode]{#2}
3663 \fi
3664     \vbox{}%
3665     #3\par%
3666     \vbox{}%
3667     \vskip-1.5ex%
3668     \end{beamercolorbox}
3669 }

```



```

3670
3671 \ifdim\beamer@sidebarwidth>0pt
3672
3673 \AtBeginDocument{%
3674   \setbeamersize{sidebar width \beamer@sidebarside=\beamer@sidebarwidth}%
3675 }
3676
3677 \defbeamertemplate*{sidebar \beamer@sidebarside}{sidebar theme}
3678 {
3679   \beamer@tempdim=\beamer@sidebarwidth%
3680   \advance\beamer@tempdim by -6pt%
3681   {\usebeamerfont{title in sidebar}%
3682     \vskip1.5em%
3683     \hskip3pt%
3684     \bgroup
3685     \usebeamercolor[fg]{title in sidebar}%
3686     \insertshorttitle[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3687     \vskip1.25em%
3688   }%
3689   {%
3690     \hskip3pt%
3691     \bgroup
3692     \usebeamercolor[fg]{author in sidebar}%
3693     \usebeamerfont{author in sidebar}%
3694     \insertshortauthor[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3695     \vskip1.25em%
3696   }%
3697   \insertverticalnavigation{\beamer@sidebarwidth}%
3698   \vfill
3699   \ifx\beamer@sidebarside\beamer@lefttext%
3700   \else%
3701     \usebeamercolor{normal text}%
3702     \llap{\usebeamertemplate***{navigation symbols}\hskip0.1cm}%
3703     \vskip2pt%
3704   \fi%
3705 }%
3706 \fi
3707

```

38 File beamerouterthemesplit-xetex-bidi.def

```

3708 \ProvidesFile{beamerouterthemesplit-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for bea
3709 \bidi\csundef{beamer@tmpop@footline@split theme}
3710
3711 \defbeamertemplate*{footline}{split theme}
3712 {%
3713   \leavevmode%
3714   \hbox{\if@RTL\begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm pl
3715 \else
3716 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm plus1fill,rightski
3717 \fi
3718   \usebeamerfont{author in head/foot}\insertshortauthor
3719   \end{beamercolorbox}%
3720 \if@RTL

```



```

3721 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm,leftskip=.3cm
3722 \else
3723 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm,rightskip=.3cm p
3724 \fi
3725 \usebeamerfont{title in head/foot}\insertshorttitle\nobreak\hfill\bggroup\usebeamercolor[
3726 \end{beamercolorbox}}}%
3727 \vskip0pt%
3728 }
3729
3730

```

39 File beamerouterthemeshadow-xetex-bidi.def

```

3731 \ProvidesFile{beamerouterthemeshadow-xetex-bidi.def}[2022/06/11 v0.3 bidi adaptations for be
3732 \pgfdeclarehorizontalshading[frametitle.bg,frametitle right.bg]{bidi@beamer@RTL@frametitlesh
3733 color(0pt)=(frametitle right.bg);
3734 color(\paperwidth)=(frametitle.bg)
3735 }
3736
3737 \newcommand*{\bidi@beamer@frametitleshade}{%
3738 \if@RTLmain
3739 \pgfuses shading{bidi@beamer@RTL@frametitleshade}%
3740 \else
3741 \pgfuses shading{beamer@frametitleshade}%
3742 \fi
3743 }
3744
3745 \bidi@csundef{beamer@tmpop@frametitle@shadow theme}
3746
3747 \defbeamer@template*{frametitle}{shadow theme}
3748 {%
3749 \nointerlineskip%
3750 \vskip-2pt%
3751 \hbox{\leavevmode
3752 \advance\beamer@leftmargin by -12bp%
3753 \advance\beamer@rightmargin by -12bp%
3754 \beamer@tempdim=\textwidth%
3755 \advance\beamer@tempdim by \beamer@leftmargin%
3756 \advance\beamer@tempdim by \beamer@rightmargin%
3757 \hskip-\Gm@lmargin\hbox{%
3758 \setbox\beamer@tempbox=\hbox{\begin{minipage}[b]{\paperwidth}%
3759 \vbox{\vskip-.75ex%
3760 \bidi@beamer@leftskip0.3cm%
3761 \bidi@beamer@rightskip0.3cm plus1fil\leavevmode
3762 \bggroup\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframe
3763 \ifx\insertframesubtitle\@empty\else%
3764 {\usebeamerfont*{framesubtitle}\usebeamercolor[fg]{framesubtitle}\insertframesu
3765 \fi%
3766 \nointerlineskip
3767 \vbox{}}%
3768 \end{minipage}}}%
3769 \beamer@tempdim=\ht\beamer@tempbox%
3770 \advance\beamer@tempdim by 2pt%
3771 \begin{pgfpicture}{0pt}{0pt}{\paperwidth}{\beamer@tempdim}

```



```

3772     \begin{pgfscope}
3773         \pgfsetfillcolor{black}%
3774         \pgfpathrectangle{\pgfpoint{0pt}{-4pt}}{\pgfpoint{\paperwidth}{8pt}}%
3775         \pgfsetfading{beamer@topshadowmask}{}%
3776         \pgfusepath{fill}%
3777     \end{pgfscope}
3778     \begin{pgfscope}
3779         \usebeamercolor{frametitle right}%
3780         \pgfpathrectangle{\pgfpointorigin}{\pgfpoint{\paperwidth}{\beamer@tempdim}}%
3781         \pgfusepath{clip}%
3782         \pgftext[left,base]{\bidi@beamer@frametitleshade}%
3783     \end{pgfscope}
3784     \end{pgfpicture}
3785     \hskip-\paperwidth%
3786     \box\beamer@tempbox%
3787 }%
3788 \hskip-\Gm@rmargin%
3789 }%
3790 \vskip-2pt
3791 }
3792
3793 \AtBeginDocument{%
3794     \setbeamertemplate{frametitle}[shadow theme]%
3795 }
3796
3797

```

40 File beamerouterthemesmoothbars-xetex-bidi.def

```

3798 \ProvidesFile{beamerouterthemesmoothbars-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for]
3799 \bidi@csundef{beamer@@tmpop@headline@smoothbars theme}
3800
3801 \bidi@csundef{beamer@@tmpop@frametitle@smoothbars theme}
3802
3803 \defbeamertemplate*{headline}{smoothbars theme}
3804 {%
3805     \pgfuses shading{beamer@barshade}%
3806     \vskip-0.05ex%
3807     \begin{beamer colorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3808     \begin{pgfpicture}
3809         \begin{pgfscope}%
3810             \ifbeamer@sb@subsection%
3811                 \pgfsetfillcolor{subsection in head/foot.bg}%
3812             \else%
3813                 \pgfsetfillcolor{section in head/foot.bg}%
3814             \fi%
3815             \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3816             \pgfsetfading{beamer@belowframetitlemask}{}%
3817             \pgfusepath{fill}%
3818         \end{pgfscope}%
3819     \end{pgfpicture}%
3820     \end{beamer colorbox}%
3821     \ifbeamer@sb@subsection%
3822         \vskip-9.75ex%

```



```

3823 \else%
3824 \vskip-6.85ex%
3825 \fi%
3826 \begin{beamercolorbox}[ignorebg,ht=2.25ex,dp=3.75ex]{section in head/foot}
3827 \insertnavigation{\paperwidth}
3828 \end{beamercolorbox}%
3829 \ifbeamer@sb@subsection%
3830 \if@RTL
3831 \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3832 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3833 \else
3834 \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3835 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3836 \fi
3837 \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3838 \end{beamercolorbox}%
3839 \fi%
3840 }%
3841
3842 \defbeamertemplate*{frametitle}{smoothbars theme}
3843 {%
3844 \nointerlineskip%
3845 \vskip-0.19ex%
3846 \usebeamerfont{headline}%
3847 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=1ex,vmode]{empty}
3848 \pgfuses shading{beamer@aboveframetitle}%
3849 \end{beamercolorbox}%
3850 \vskip-1ex%
3851 \nointerlineskip%
3852 \if@RTL
3853 \begin{beamercolorbox}[wd=\paperwidth,rightskip=.3cm,leftskip=.3cm plus1fil,vmode]{frameti
3854 \else
3855 \begin{beamercolorbox}[wd=\paperwidth,leftskip=.3cm,rightskip=.3cm plus1fil,vmode]{frameti
3856 \fi
3857 \vskip0.5ex%
3858 \usebeamerfont*{frametitle}\strut\insertframetitle%
3859 \ifx\insertframesubtitle\@empty%
3860 \strut\par%
3861 \else
3862 \par{\usebeamerfont*{framesubtitle}\usebeamercolor[fg]{framesubtitle}\strut\insertf
3863 \fi}%
3864 \usebeamerfont{headline}%
3865 \vskip0.05ex%
3866 \end{beamercolorbox}%
3867 \nointerlineskip%
3868 \vskip-0.05ex%
3869 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3870 \begin{pgfpicture}
3871 \begin{pgfscope}%
3872 \pgfsetfillcolor{frametitle.bg}%
3873 \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3874 \pgfsetfading{beamer@belowframetitlemask}{}%
3875 \pgfusepath{fill}%
3876 \end{pgfscope}%

```



```

3877 \end{pgfpicture}%
3878 \end{beamercolorbox}%
3879 }
3880
3881 \AtBeginDocument{%
3882 \setbeamertemplate{frametitle}[smoothbars theme]%
3883 }
3884
3885

```

41 File beamerouterthemesmoothtree-xetex-bidi.def

```

3886 \ProvidesFile{beamerouterthemesmoothtree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3887 \bidi\csundef{beamer@tmpop@headline@smoothtree theme}
3888
3889 \bidi\csundef{beamer@tmpop@frametitle@smoothtree theme}
3890
3891 \defbeamertemplate*{headline}{smoothtree theme}
3892 {%
3893 \pgfuses shading{beamer@treeshade}%
3894 \vskip-0.05ex%
3895 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3896 \begin{pgfpicture}
3897 \begin{pgfscope}%
3898 \pgfsetfillcolor{subsection in head/foot.bg}%
3899 \pgfpathrectangle{\pgfpoint{-0.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3900 \pgfsetfading{beamer@belowframetitlemask}{}%
3901 \pgfusepath{fill}%
3902 \end{pgfscope}%
3903 \end{pgfpicture}%
3904 \end{beamercolorbox}%
3905 \vskip-9.15ex%
3906 \if@RTL
3907 \begin{beamercolorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3908 rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3909 \else
3910 \begin{beamercolorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3911 leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3912 \fi
3913 \usebeamerfont{title in head/foot}\insertshorttitle
3914 \end{beamercolorbox}
3915 \if@RTL
3916 \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3917 rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3918 \else
3919 \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3920 leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3921 \fi
3922 \usebeamerfont{section in head/foot}%
3923 \hskip6pt\insertsectionhead
3924 \end{beamercolorbox}
3925 \if@RTL
3926 \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3927 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}

```




```

3928 \else
3929 \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3930 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3931 \fi
3932 \usebeamerfont{subsection in head/foot}%
3933 \hskip12pt\insertsubsectionhead
3934 \end{beamercolorbox}
3935 \vskip-0.4ex%
3936 }
3937
3938 \defbeamertemplate*{frametitle}{smoothtree theme}
3939 {%
3940 \nointerlineskip%
3941 \vskip-0.05ex%
3942 \usebeamerfont{headline}%
3943 \begin{beamercolorbox}[wd=\paperwidth,ht=0.85ex,dp=0ex]{empty}
3944 \pgfuses shading{beamer@aboveframetitle}%
3945 \end{beamercolorbox}
3946 \nointerlineskip%
3947 \if@RTL
3948 \begin{beamercolorbox}[wd=\paperwidth,rightskip=.935cm,leftskip=.3cm plus1fil]{frametitle}
3949 \else
3950 \begin{beamercolorbox}[wd=\paperwidth,leftskip=.935cm,rightskip=.3cm plus1fil]{frametitle}
3951 \fi
3952 \vskip-1.2ex%
3953 \usebeamerfont*{frametitle}\strut\insertframetitle%
3954 \ifx\insertframesubtitle\@empty%
3955 \strut\par%
3956 \else
3957 \par{\usebeamerfont*{framesubtitle}{\usebeamercolor[fg]{framesubtitle}\strut\insertframesubtitle}%
3958 \fi}%
3959 \usebeamerfont{headline}%
3960 \end{beamercolorbox}%
3961 \nointerlineskip
3962 \vskip-0.2ex%
3963 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3964 \begin{pgfpicture}
3965 \begin{pgfscope}%
3966 \pgfsetfillcolor{frametitle.bg}%
3967 \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3968 \pgfsetfading{beamer@belowframetitlemask}{}%
3969 \pgfusepath{fill}%
3970 \end{pgfscope}%
3971 \end{pgfpicture}%
3972 \end{beamercolorbox}%
3973 }
3974
3975
3976 \AtBeginDocument{%
3977 \setbeamertemplate{frametitle}[smoothtree theme]%
3978 }
3979
3980

```



42 File beamerouterthemetree-xetex-bidi.def

```
3981 \ProvidesFile{beamerouterthemetree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beam
3982 \bidi@csundef{beamer@tmpop@headline@tree theme}
3983
3984 \defbeamermetemplate*{headline}{tree theme}
3985 {%
3986   \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{upper separation line head}
3987   \end{beamercolorbox}
3988   \if@RTL
3989   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3990     rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3991   \else
3992   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3993     leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3994   \fi
3995   \usebeamerfont{title in head/foot}\insertshorttitle
3996   \end{beamercolorbox}
3997   \if@RTL
3998   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3999     rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
4000   \else
4001   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4002     leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
4003   \fi
4004   \usebeamerfont{section in head/foot}%
4005   \ifbeamer@tree@showhooks
4006     \setbox\beamer@tempbox=\hbox{\insertsectionhead}%
4007     \ifdim\wd\beamer@tempbox>1pt%
4008       \hskip2pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height0.
4009       \hskip1pt%
4010     \fi%
4011   \else%
4012     \hskip6pt%
4013   \fi%
4014   \insertsectionhead
4015   \end{beamercolorbox}
4016   \if@RTL
4017   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4018     rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
4019   \else
4020   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4021     leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
4022   \fi
4023   \usebeamerfont{subsection in head/foot}%
4024   \ifbeamer@tree@showhooks
4025     \setbox\beamer@tempbox=\hbox{\insertsubsectionhead}%
4026     \ifdim\wd\beamer@tempbox>1pt%
4027       \hskip9.4pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height
4028       \hskip1pt%
4029     \fi%
4030   \else%
4031     \hskip12pt%
4032   \fi%
```



```

4033     \insertsubsectionhead
4034   \end{beamercolorbox}
4035   \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{lower separation line head}
4036   \end{beamercolorbox}
4037 }
4038
4039

```

43 File beamerthemeHannover-xetex-bidi.def

```

4040 \ProvidesFile{beamerthemeHannover-xetex-bidi.def}[2022/06/07 v0.1 bidi adaptations for beamer]
4041 \AtBeginDocument{%
4042   \if@RTLmain
4043     \setbeamertemplate{frametitle}[default][left]%
4044   \else
4045     \setbeamertemplate{frametitle}[default][right]%
4046   \fi
4047 }
4048
4049

```

44 File beamerthemeSingapore-xetex-bidi.def

```

4050 \ProvidesFile{beamerthemeSingapore-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beamer]
4051 \addtoheadtemplate{\pgfuses shading{beamer@headfade}\vskip-1.25cm}{%}
4052
4053 \beamertemplatedotitem
4054
4055 \AtBeginDocument{%
4056   \setbeamertemplate{frametitle}[default][center]%
4057 }
4058
4059

```

45 File bidi.sty

```

4060 \NeedsTeXFormat{LaTeX2e}
4061 \def\bididate{2025/09/04}
4062 \def\bidi@version{25.09.04}
4063 \def\bidi@releasename{Iran}
4064 \newcommand*{\bidi@releasename}{\bidi@releasename}
4065 \ProvidesPackage{bidi}[\bididate\space v\bidi@version\space (Release \bidi@releasename)\space]
4066 Bidirectional typesetting in plain TeX and LaTeX]
4067 \newif\if@bidi@banner
4068 \newif\if@bidi@pdfbanner
4069 \newif\iffootdir@debug
4070 \newif\if@extrafootnotefeatures
4071 \newif\if@nonlatin
4072 \newif\if@bidi@pdfm@mark
4073 \newif\if@bidi@perpage@footnote
4074 \ExplSyntaxOn
4075 \msg_new:nnn {bidi} {cannot-use-engine}
4076 {
4077   Oops!~can~not~use~\c_sys_engine_str.\\

```



```

4078   The~bidi~package~requires~XeTeX.
4079 }
4080 \sys_if_engine_xetex:F
4081 {
4082   \msg_fatal:nn {bidi} {cannot-use-engine}
4083 }
4084
4085 \keys_define:nn { bidi }
4086 {
4087   banner .choice: ,
4088   banner / on .code:n = \@bidi@bannertrue ,
4089   banner / off .code:n = \@bidi@bannerfalse ,
4090   banner .default:n = on
4091 }
4092 \keys_define:nn { bidi }
4093 {
4094   PDFbanner .choice: ,
4095   PDFbanner / on .code:n = \@bidi@pdfbannertrue ,
4096   PDFbanner / off .code:n = \@bidi@pdfbannerfalse ,
4097   PDFbanner .default:n = on
4098 }
4099 \keys_define:nn { bidi }
4100 {
4101   RTLdocument .choice: ,
4102   RTLdocument / on .code:n = \AtEndOfPackage{\@RTLtrue} ,
4103   RTLdocument / off .code:n = \AtEndOfPackage{\@RTLfalse} ,
4104   RTLdocument .default:n = on
4105 }
4106 \keys_define:nn { bidi }
4107 {
4108   rldocument .choice: ,
4109   rldocument / on .code:n = \AtEndOfPackage{\@RTLtrue} ,
4110   rldocument / off .code:n = \AtEndOfPackage{\@RTLfalse} ,
4111   rldocument .default:n = on
4112 }
4113 \keys_define:nn { bidi }
4114 {
4115   documentdirection .choice: ,
4116   documentdirection / righttoleft .code:n = \AtEndOfPackage{\@RTLtrue} ,
4117   documentdirection / lefttoright .code:n = \AtEndOfPackage{\@RTLfalse}
4118 }
4119 \keys_define:nn { bidi }
4120 {
4121   tabledirection .choice: ,
4122   tabledirection / righttoleft .code:n = \AtEndOfPackage{\@RTLtabtrue} ,
4123   tabledirection / lefttoright .code:n = \AtEndOfPackage{\@RTLtabfalse}
4124 }
4125 \keys_define:nn { bidi }
4126 {
4127   footnotedirection .choice: ,
4128   footnotedirection / righttoleft .code:n = \AtEndOfPackage{\@RTL@footnotetrue} ,
4129   footnotedirection / lefttoright .code:n = \AtEndOfPackage{\@RTL@footnotefalse}
4130 }
4131 \keys_define:nn { bidi }

```



```

4132 {
4133     debugfootnotedirection .choice: ,
4134     debugfootnotedirection / on .code:n = \footdir@debugtrue ,
4135     debugfootnotedirection / off .code:n = \footdir@debugfalse ,
4136     debugfootnotedirection .default:n = on
4137 }
4138 \keys_define:nn { bidi }
4139 {
4140     footnoterule .choice: ,
4141     footnoterule / automatic .code:n = \AtEndOfPackage{\autofootnoterule} ,
4142     footnoterule / left .code:n = \AtEndOfPackage{\leftfootnoterule} ,
4143     footnoterule / right .code:n = \AtEndOfPackage{\rightfootnoterule} ,
4144     footnoterule / split .code:n = \AtEndOfPackage{\SplitFootnoteRule} ,
4145     footnoterule / textwidth .code:n = \AtEndOfPackage{\textwidthfootnoterule}
4146 }
4147 \keys_define:nn { bidi }
4148 {
4149     extrafootnotefeatures .choice: ,
4150     extrafootnotefeatures / on .code:n = \@extrafootnotefeaturestrue ,
4151     extrafootnotefeatures / off .code:n = \@extrafootnotefeaturesfalse ,
4152     extrafootnotefeatures .default:n = on
4153 }
4154 \keys_define:nn { bidi }
4155 {
4156     script .choice: ,
4157     script / latin .code:n = \@nonlatinfalse ,
4158     script / nonlatin .code:n = \@nonlatintrue ,
4159     script .default:n = latin
4160 }
4161 \keys_define:nn { bidi }
4162 {
4163     DetectColumn .choice: ,
4164     DetectColumn / on .code:n =
4165         \def\bidi@firstcolumn@status@write{%
4166             \protected@write\@auxout{%
4167                 {\string\bidi@column@status
4168                     {1}}}
4169         \def\bidi@lastcolumn@status@write{%
4170             \protected@write\@auxout{%
4171                 {\string\bidi@column@status{2}}} ,
4172     DetectColumn / off .code:n =
4173         \let\bidi@firstcolumn@status@write\relax
4174         \let\bidi@lastcolumn@status@write\relax ,
4175     DetectColumn .default:n = on
4176 }
4177 \keys_define:nn { bidi }
4178 {
4179     logo .choice: ,
4180     logo / on .code:n = \AtEndOfPackage{\AtBeginDocument{\@bidi@inslogo}} ,
4181     logo / off .code:n = \let\@bidi@logo@\empty \let\@bidi@inslogo@\empty ,
4182     logo .default:n = on
4183 }
4184 \keys_define:nn { bidi }
4185 {

```



```

4186 pdfinfo .choice: ,
4187 pdfinfo / on .code:n = \@bidi@pdfm@marktrue ,
4188 pdfinfo / off .code:n = \@bidi@pdfm@markfalse ,
4189 pdfinfo .default:n = on
4190 }
4191 % The `perpagefootnote' option is documented in UK TeX FAQ at
4192 % <https://texfaq.org/FAQ-footnpp> (see last paragraph)
4193 \keys_define:nn { bidi }
4194 {
4195   perpagefootnote .choice: ,
4196   perpagefootnote / on .code:n = \@bidi@perpage@footnotetrue ,
4197   perpagefootnote / off .code:n = \@bidi@perpage@footnotefalse ,
4198   perpagefootnote .default:n = on
4199 }
4200 \keys_set:nn { bidi }
4201 {
4202   banner = on ,
4203   PDFbanner = on ,
4204   DetectColumn = off
4205 }
4206 }
4207 \ExplSyntaxOff
4208 \ProcessKeyOptions
4209 \edef\@bidi@info{*****~J%
4210 * ~J%
4211 * bidi package (Bidirectional typesetting with~J%
4212 * plain TeX and LaTeX formats in XeTeX and LuaTeX engines)~J%
4213 * ~J%
4214 * Description: A convenient interface for~J%
4215 * typesetting bidirectional texts in plain TeX~J%
4216 * and LaTeX. The package includes adaptations~J%
4217 * for use with many other commonly-used packages.~J%
4218 * ~J%
4219 * Copyright (c) 2007--2025 Vafa Khalighi~J%
4220 * Copyright (c) 2018--2020 bidi-tex GitHub organization~J%
4221 * ~J%
4222 * v\bidi@version\space (Release \bidi@releasename), \bidi@date~J%
4223 * ~J%
4224 * License: LaTeX Project Public License, version~J%
4225 * 1.3c or higher (your choice)~J%
4226 * ~J%
4227 * Location on CTAN: /macros/unicodetex/latex/bidi~J%
4228 * ~J%
4229 * Issue tracker: https://github.com/xepersian/bidi/issues~J%
4230 * ~J%
4231 * Discussions: https://github.com/xepersian/bidi/discussions~J%
4232 * ~J%
4233 * Primary author of bidi package: Vafa Khalighi.~J%
4234 * ~J%
4235 *****}
4236 \edef\bidi@everyjob{\the\everyjob}
4237 \if@bidi@banner
4238   \typeout{\@bidi@info}
4239   \everyjob{\bidi@everyjob\typeout{\@bidi@info}}

```



```

4240 \fi
4241 \newcommand*{\bidi@version}{\ensuremath\bidi@version}
4242 \RequirePackage{bidiutils}
4243 \RequirePackage{zref-abspage}
4244 \RequirePackage{auxhook}
4245 \RequirePackage{ltxcmds}
4246 \eqnewif{\if@RTLmain}{\if@rlmain}
4247 \eqnewif{\if@RTL}{\if@rl}
4248 \newcommand*{\setlatin}{\@nonlatinfalse}
4249 \newcommand*{\setnonlatin}{\@nonlatintrue}
4250 \eqnewif{\if@RTLtab}{\if@tab@rl}
4251 \newif\if@hboxRconstruct
4252 \newif\if@bidi@pdfencrypt
4253 \newcommand*{\setRTLtable}{\@RTLtabtrue}
4254 \newcommand*{\setLTRtable}{\@RTLtabfalse}
4255 \newif\if@RTLMarginpar
4256 \newif\if@LTRmarginpar
4257 \newif\if@LTRbibitems
4258 \newif\if@RTLbibitems
4259 \eqnewif{\if@RTL@footnote}{\if@rl@footnote}
4260 \newif\if@bidi@list@minipage@parbox
4261 \newif\if@bidi@list@minipage@parbox@not@nob
4262 \newcommand*{\@bidi@pdfcreator}{\%}
4263 The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4264 }
4265 \newcommand*{\@bidi@pdfproducer}{\%}
4266 The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4267 }
4268 \newcommand*{\@bidi@pdfcustomproperties}{\%}
4269 This is the bidi package, Version \bidi@version\space (Release \bidi@releasename),
4270 Released September 4, 2025.
4271 }
4272 \newcommand*{\bidi@beamer@ragged}{\%}
4273 \@RTLmainfalse
4274 \AtBeginDocument{\%
4275   \if@RTLmain\else
4276     \if@RTL\@RTLmaintrue\%
4277     \else\@RTLmainfalse\%
4278     \fi\%
4279   \fi\%
4280 }
4281 \let\n@xt=\
4282 \bidi@newrobustcmd*{\LRE}{\protect\pLRE}\%
4283 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4284 \bidi@newrobustcmd*{\RLE}{\protect\pRLE}
4285 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4286 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4287   \errmessage{Missing left brace has been substituted}\fi \bgroup}
4288 \newinsert\@bidi@copyins@
4289 \skip\@bidi@copyins@=12\p@
4290 \dimen\@bidi@copyins@=40pc
4291 \count\@bidi@copyins@=1000
4292 \newcommand*{\@bidi@inslogo@}{\insert\@bidi@copyins@{\@bidi@logo@}}
4293 \newcommand*{\@bidi@logo@hb@xt@columnwidth}{\%

```



```

4294 \if@RTLmain
4295   \if@twocolumn
4296     \hboxR to \columnwidth
4297   \else
4298     \hboxR to \textwidth
4299   \fi
4300 \else
4301   \if@twocolumn
4302     \hboxL to \columnwidth
4303   \else
4304     \hboxL to \textwidth
4305   \fi
4306 \fi
4307 }
4308 \newcommand*{\@bidi@logo}[1]{%
4309   \toks@{%
4310     \setbox\z@\hbox{%
4311       \special{%
4312         pdf:image width 50pt height 50pt (#1)%
4313       }
4314     }%
4315     \dp\z@\z@
4316     \ht\z@=50pt
4317     \wd\z@=50pt
4318     \beginL
4319       \lower20pt\box\z@
4320     \endL
4321   }%
4322   \the\toks@
4323 }
4324 \newcount\bidi@typesethour
4325 \newcount\bidi@typesetminute
4326 \bidi@typesethour=\time
4327 \divide\bidi@typesethour 60
4328 \bidi@typesetminute=-\bidi@typesethour
4329 \multiply\bidi@typesetminute 60
4330 \advance\bidi@typesetminute \time
4331 \newcommand*{\TypesetHour}{\two@digits\bidi@typesethour}
4332 \newcommand*{\TypesetMinute}{\two@digits\bidi@typesetminute}
4333 \newcommand*{\TypesetTime}{\TypesetHour:\TypesetMinute}
4334 \newcommand*{\@bidi@logo@}{%
4335   \@bidi@logo@hb@xt@columnwidth
4336   {\hss\LRE{\bfseries Typeset {\today} at {\TypesetTime} by the \textsf{bidi}
4337     package\quad\@bidi@logo{bidi-logo.pdf}}}}
4338 \ExplSyntaxOn
4339 \keys_define:nn { bidi / pdfencrypt }
4340 {
4341   userpassword .code:n = \def\bidi@pdfencrypt@userpassword{#1} ,
4342   userpassword .default:n =
4343 }
4344 \keys_define:nn { bidi / pdfencrypt }
4345 {
4346   ownerpassword .code:n = \def\bidi@pdfencrypt@ownerpassword{#1} ,
4347   ownerpassword .default:n =

```




```

4348 }
4349 \keys_define:nn { bidi / pdfencrypt }
4350 {
4351     keylength .code:n = \def\bidi@pdfencrypt@keylength{#1} ,
4352     keylength .default:n = 128
4353 }
4354 \keys_define:nn { bidi / pdfencrypt }
4355 {
4356     permissionflags .code:n = \def\bidi@pdfencrypt@permissionflags{#1} ,
4357     permissionflags .default:n = 2052
4358 }
4359 \NewDocumentCommand \pdfencryptsetup {m} { \keys_set:nn { bidi / pdfencrypt } {#1} }
4360 \ExplSyntaxOff
4361 \@onlypreamble\pdfencryptsetup
4362 \input{latex-xetex-bidi.def}
4363
4364 \pdfencryptsetup{%
4365     userpassword,%
4366     ownerpassword,%
4367     keylength,%
4368     permissionflags%
4369 }
4370
4371 \if@extrafootnotefeatures
4372 \input{extrafootnotefeatures-xetex-bidi.def}
4373 \fi
4374 \newcount\bidi@digits
4375 \XeTeXinterchartokenstate=\@ne
4376 \newXeTeXintercharclass\bidi@digits@charclass
4377 \newXeTeXintercharclass\bidi@sepmark@charclass
4378 \XeTeXcharclass \. \bidi@sepmark@charclass
4379 \XeTeXcharclass \- \bidi@sepmark@charclass
4380 \bidi@digits=\0 \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4381 \bidi@digits=\ \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4382 \bidi@digits=\ \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4383 \XeTeXinterchartoks \bidi@sepmark@charclass \bidi@digits@charclass = {\DigitsDotDashInterCh
4384 \newcommand*{\DigitsDotDashInterCharToks}{\if@nonlatin\char"200F \fi}
4385 \bidi@AtEndPreamble{%
4386     \if@bidi@perpage@footnote
4387         \RequirePackage{bidi-perpage}%
4388         \ResetCounterPerPage{footnote}%
4389     \fi
4390     \ifx\bidi@pdfencrypt@ownerpassword\bidi@empty
4391         \ifx\bidi@pdfencrypt@userpassword\bidi@empty
4392             \@bidi@pdfencryptfalse
4393         \else
4394             \@bidi@pdfencrypttrue
4395         \fi
4396     \else
4397         \@bidi@pdfencrypttrue
4398     \fi
4399     \if@bidi@pdfencrypt
4400         \special{pdf:encrypt
4401             userpw (\bidi@pdfencrypt@userpassword)

```



```

4402     ownerpw (\bidi@pdfencrypt@ownerpassword)
4403     length \bidi@pdfencrypt@keylength
4404     perm \bidi@pdfencrypt@permissionflags
4405   }%
4406 \fi
4407 }
4408 \if@bidi@pdfbanner
4409   \if@bidi@pdfm@mark
4410     \AtEndDocument{%
4411       \special{pdf:%
4412         docinfo<<%
4413           /Creator(\@bidi@pdfcreator)%
4414           /Producer(\@bidi@pdfproducer)%
4415           /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4416           \if@bidi@csdef{@xepersian@pdfcustomproperties}{%
4417             /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4418           }}%
4419         >>%
4420       }%
4421     }
4422   \else
4423     \AtEndDocument{%
4424       \special{pdf:%
4425         docinfo<<%
4426           /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4427           \if@bidi@csdef{@xepersian@pdfcustomproperties}{%
4428             /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4429           }}%
4430         >>%
4431       }%
4432     }
4433   \fi
4434 \else
4435   \if@bidi@pdfm@mark
4436     \AtEndDocument{%
4437       \special{pdf:%
4438         docinfo<<%
4439           /Creator(\@bidi@pdfcreator)%
4440           /Producer(\@bidi@pdfproducer)%
4441         >>%
4442       }%
4443     }
4444   \fi
4445 \fi

```

46 File bidi.tex

```

4446 \def\bidiidate{2025/09/04}
4447 \catcode`\@=11
4448 \def\bidi@version{25.09.04}
4449 \def\bidi@releasename{Iran}
4450 \def\bidi@releasename{\bidi@releasename}
4451 \let \protect \relax
4452 \newlinechar`\^^J

```



```

4453 \edef\@bidi@info{*****~J%
4454 * ~J%
4455 * bidi package (Bidirectional typesetting with~J%
4456 * plain TeX and LaTeX formats in XeTeX and LuaTeX engines)~J%
4457 * ~J%
4458 * Description: A convenient interface for~J%
4459 * typesetting bidirectional texts in plain TeX~J%
4460 * and LaTeX. The package includes adaptations~J%
4461 * for use with many other commonly-used packages.~J%
4462 * ~J%
4463 * Copyright (c) 2007--2025 Vafa Khalighi~J%
4464 * Copyright (c) 2018--2020 bidi-tex GitHub organization~J%
4465 * ~J%
4466 * v\@bidi@version\space (Release \@bidi@releasename), \@bidi@date~J%
4467 * ~J%
4468 * License: LaTeX Project Public License, version~J%
4469 * 1.3c or higher (your choice)~J%
4470 * ~J%
4471 * Location on CTAN: /macros/unicodetex/latex/bidi~J%
4472 * ~J%
4473 * Issue tracker: https://github.com/xepersian/bidi/issues~J%
4474 * ~J%
4475 * Discussions: https://github.com/xepersian/bidi/discussions~J%
4476 * ~J%
4477 * Primary author of bidi package: Vafa Khalighi.~J%
4478 * ~J%
4479 *****}
4480 \edef\bidi@everyjob{\the\everyjob}
4481 \message{\@bidi@info}
4482 \everyjob{\bidi@everyjob\message{\@bidi@info}}
4483 \def\bidiversion{%
4484   \relax
4485   \ifmmode
4486     \@bidi@version
4487   \else
4488     $\@bidi@version$
4489   \fi
4490 }
4491 \input iftex.sty
4492 \RequireXeTeX
4493 \newif\if@bidi@pdfm@mark
4494 \newif\if@RTLmain
4495 \newif\if@RTL
4496 \newif\if@hboxRconstruct
4497 \newif\if@sentdir
4498 \newif\if@RTL@footnote
4499 \@RTLmainfalse
4500 \def\setRTLmain{%
4501   \if@RTLmain\else
4502     \if@RTL\@RTLmaintrue%
4503     \else\@RTLmainfalse%
4504     \fi%
4505   \fi%
4506 }

```



```

4507 \let\n@xt=\
4508 \protected\def\LRE{\protect\pLRE}%
4509 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4510 \protected\def\RLE{\protect\pRLE}
4511 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4512 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4513 \errmessage{Missing left brace has been substituted}\fi \bgroup}
4514 \newinsert\@bidi@copyins@
4515 \skip\@bidi@copyins@=12\p@
4516 \dimen\@bidi@copyins@=40pc
4517 \count\@bidi@copyins@=1000
4518 \def\@bidi@inslogo@{\insert\@bidi@copyins@{\@bidi@logo@}}
4519 \def\@bidi@logo@hb@xt@{%
4520 \if@RTLmain
4521 \hboxR to
4522 \else
4523 \hboxL to
4524 \fi
4525 }
4526 \def\@bidi@logo#1{%
4527 \toks@{%
4528 \setbox\z@\hbox{%
4529 \special{%
4530 pdf:image width 50pt height 50pt (#1)%
4531 }
4532 }%
4533 \dp\z@\z@
4534 \ht\z@=50pt
4535 \wd\z@=50pt
4536 \beginL
4537 \lower20pt\box\z@
4538 \endL
4539 }%
4540 \the\toks@
4541 }
4542 \def\today{\ifcase\month\or
4543 January\or February\or March\or April\or May\or June\or
4544 July\or August\or September\or October\or November\or December\fi
4545 \space\number\day, \number\year}
4546 \def\two@digits#1{\ifnum#1<10 0\fi\number#1}
4547 \newcount\@bidi@typesethour
4548 \newcount\@bidi@typesetminute
4549 \@bidi@typesethour=\time
4550 \divide\@bidi@typesethour 60
4551 \@bidi@typesetminute=-\@bidi@typesethour
4552 \multiply\@bidi@typesetminute 60
4553 \advance\@bidi@typesetminute \time
4554 \def\TypesetHour{\two@digits\@bidi@typesethour}
4555 \def\TypesetMinute{\two@digits\@bidi@typesetminute}
4556 \def\TypesetTime{\TypesetHour:\TypesetMinute}
4557 \def\@bidi@logo@{\@bidi@logo@hb@xt@\hsize{\hss\LRE{\bf Typeset {\today} at {\TypesetTime} by
4558 \def\bidilogo{\@bidi@inslogo@}
4559 \def\nobidilogo{\let\@bidi@logo@\@empty \let\@bidi@inslogo@\@empty}
4560 \def\@bidi@pdfcreator{%

```



```

4561 The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4562 }
4563 \def\bidi@pdfproducer{%
4564 The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4565 }
4566 \def\bidi@pdfcustomproperties{%
4567 This is the bidi package, Version \bidi@version\space (Release \bidi@releasename),
4568 Released September 4, 2025.
4569 }
4570 \def\bidi@pdfm@mark{%
4571 \special{pdf:
4572 docinfo<<%
4573 \if\bidi@pdfm@mark
4574 /Creator(\@bidi@pdfcreator)%
4575 /Producer(\@bidi@pdfproducer)%
4576 \fi
4577 /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4578 >>%
4579 }%
4580 }
4581 \def\bidipdfinfoon{\@bidi@pdfm@marktrue}
4582 \def\bidipdfinfooff{\@bidi@pdfm@markfalse}
4583 \input plain-xetex-bidi.def
4584 \outer\def\bye{\bidi@pdfm@mark\par\vfill\supereject\end}
4585 \catcode\@=12
4586 \bidipdfinfoon

```

47 File bidi2in1.sty

```

4587 \NeedsTeXFormat{LaTeX2e}
4588 \ProvidesPackage{bidi2in1}
4589 \pagestyle{plain}
4590 \newcount\evenpage
4591 \newcount\oddpge
4592 \twocolumn
4593 \def\@oddfoot{\evenpage=\thepage%
4594 \multiply\evenpage by 2%
4595 \oddpge=\the\evenpage%
4596 \advance\oddpge by -1%
4597 \hfil\the\evenpage\hfil\hfil\the\oddpge\hfil}%
4598 \def\@evenfoot{\evenpage=\thepage%
4599 \multiply\evenpage by 2%
4600 \oddpge=\the\evenpage%
4601 \advance\oddpge by -1%
4602 \hfil\the\oddpge\hfil\hfil\the\evenpage\hfil}%
4603 \textwidth 9.49in
4604 \textheight 6.7in
4605 \columnsep 0.9in
4606 \columnseprule 0.125pt
4607 \headheight 0cm
4608 \topmargin 0in
4609 \marginparwidth 0in
4610 \marginparsep 0in
4611 \hoffset 0.05in % Corrected

```



```

4612 \voffset -0.5in %top margin space is 1.0in by default
4613 \oddsidemargin 0in
4614 \evensidemargin 0in
4615 \headsep 0cm
4616 \topskip 0cm
4617 \parskip 0.15in %
4618 \headsep 0pt
4619 \special{papersize=11.69in,8.26in}
4620 \renewcommand\maketitle{\par
4621 \begingroup
4622 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
4623 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
4624 \long\def\@makefntext##1{\parindent 1em\noindent
4625 \hb@xt@1.8em{%
4626 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
4627 \@maketitle
4628 \@thanks
4629 \endgroup
4630 \setcounter{footnote}{0}%
4631 \global\let\thanks\relax
4632 \global\let\maketitle\relax
4633 \global\let\@maketitle\relax
4634 \global\let\@thanks\@empty
4635 \global\let\@author\@empty
4636 \global\let\@date\@empty
4637 \global\let\@title\@empty
4638 \global\let\title\relax
4639 \global\let\author\relax
4640 \global\let\date\relax
4641 \global\let\and\relax
4642 }

```

48 File bidicode.sty

```

4643 \NeedsTeXFormat{LaTeX2e}
4644 \ProvidesPackage{bidicode}
4645 \RequirePackage{xcolor}
4646 \RequirePackage{showexpl}
4647 \definecolor{hellgelb}{rgb}{1,1,0.85}
4648 \definecolor{colKeys}{rgb}{0.2,0.4,0.8}
4649 \definecolor{colCS}{rgb}{0.2,0.4,0.8}
4650 \definecolor{colIdentifier}{rgb}{0,0,0}
4651 \definecolor{colComments}{rgb}{1,0,0}
4652 \definecolor{colString}{rgb}{0,0.5,0}
4653 \lstset{%
4654     language=[LaTeX]TeX,%
4655     float=hbp,%
4656     basicstyle=\ttfamily\small,%
4657     identifierstyle=\color{colIdentifier},%
4658     keywordstyle=\color{colKeys},%
4659     texcsstyle=\color{colCS},%
4660     stringstyle=\color{colString},%
4661     commentstyle=\color{colComments},%
4662     backgroundcolor=\color{hellgelb},%

```



```

4663     columns=flexible,%
4664     tabsize=4,%
4665     extendedchars=true,%
4666     showspace=false,%
4667     showstringspaces=false,%
4668     numbers=left,%
4669     numbersep=0.9em,%
4670     numberstyle=\tiny,%
4671     frame=single,%
4672     captionpos=b,%
4673     xleftmargin=1em,%
4674     breaklines=true,%
4675     breakautoindent=false,%
4676     breakindent=0pt,%
4677     escapeinside=**,%
4678     pos=r,%
4679     explpreset={%
4680         xleftmargin=1em,%
4681         columns=flexible,%
4682         language=[LaTeX]TeX%
4683     },%
4684     moretexcs={%
4685         bididate,%
4686         bidiversion,%
4687         deflatinfont,%
4688         defpersianfont,%
4689         ding,%
4690         endLTR,%
4691         endRTL,%
4692         false,%
4693         falsesymbol,%
4694         junicode,%
4695         lr,%
4696         LR,%
4697         LRE,%
4698         LTR,%
4699         maketitle,%
4700         Nastaliq,%
4701         newfontfamily,%
4702         Parsifont,%
4703         part,%
4704         RL,%
4705         RLE,%
4706         RTL,%
4707         RTLcases,%
4708         SepMark,%
4709         setLR,%
4710         setLTR,%
4711         setRL,%
4712         setRTL,%
4713         settextfont,%
4714         subsection,%
4715         subsubsection,%
4716         tableofcontents,%

```



```

4717      text,%
4718      theequation,%
4719      thesection,%
4720      true,%
4721      truesymbol,%
4722      XePersian,%
4723      xepersiandate,%
4724      xepersianversion%
4725  }%
4726 }
4727 \newcommand\HLON{%
4728   \gdef\lst@alloverstyle##1{%
4729     \fboxrule=0pt
4730     \fboxsep=0pt
4731     \fcolorbox{hellgelb}{hellgelb}{\bfseries\strut##1}%
4732   }}
4733 \newcommand\HLOFF{%
4734   \xdef\lst@alloverstyle##1{##1}%
4735 }
4736 \newcommand\Larg [1]{\{\normalfont\itshape#1\}/}
4737 \newcommand\Larga[1]{\$\langle$\Larg{#1}\$ \rangle$}
4738 \newcommand\Largb[1]{\lcb\Larg{#1}\rcb}
4739 \newcommand\Largs[1]{\lsb\Larg{#1}\rsb}
4740 \newcommand\Largr[1]{\lrb\Larg{#1}\rrb}
4741 \newcommand\LBEG[1]{\{\normalfont\ttfamily\bs{}begin\lcb#1\rcb}}
4742 \newcommand\LEND[1]{\{\normalfont\ttfamily\bs{}end\lcb#1\rcb}}
4743
4744 \DeclareRobustCommand\bs{\{\normalfont\ttfamily\symbol{92}\}}
4745 \DeclareRobustCommand\lcb{\{\normalfont\ttfamily\char`{}\}}
4746 \DeclareRobustCommand\rcb{\{\normalfont\ttfamily\char`{}\}}
4747 \DeclareRobustCommand\lsb{\{\normalfont\ttfamily[]\}}
4748 \DeclareRobustCommand\rsb{\{\normalfont\ttfamily[]\}}
4749 \DeclareRobustCommand\lrb{\{\normalfont\ttfamily{}\}}
4750 \DeclareRobustCommand\rrb{\{\normalfont\ttfamily{}\}}
4751
4752 \def\Lcs#1{\nxLcs{#1}}
4753 \def\LcsStar#1{\nxLcs{#1}\OptArg*{}}
4754 \def\nxLcs#1{\texttt{\symbol{92}#1}}
4755
4756 \def\Coordx#1{$x_{#1}$}
4757 \def\Coordy#1{$y_{#1}$}
4758 \def\Coordz#1{$z_{#1}$}
4759 \def\Coord#1{\Coordx{#1},\kern 1pt\Coordy{#1}}
4760 \def\Coordn{\Coordx{n},\kern 1pt\Coordy{n}}
4761 \def\CoordIII#1{\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1}}
4762 \def\CAny{\Coordx{},\kern 1pt\Coordy{}}
4763 \def\CIIIAny{\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{}}
4764 \def\coord#1{(\Coordx{#1},\kern 1pt\Coordy{#1})}
4765 \def\coordn{(\Coordx{n},\kern 1pt\Coordy{n})}
4766 \def\coordiii#1{(\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1})}
4767 \def\coordx#1{($x_{#1}$)}
4768 \def\coordy#1{($y_{#1}$)}
4769 \def\coordz#1{($z_{#1}$)}
4770 \def\cAny{(\Coordx{},\kern 1pt\Coordy{}}

```




```

4771 \def\ciiiiAny{(\Coordx{},{},\kern 1pt\Coordy{},{},\kern 1pt\Coordz{},{})}
4772
4773 \newsavebox{\boxdef}
4774 \newenvironment{BDef}
4775   {\begin{lrbox}\boxdef
4776     \def\arraystretch{1.0}
4777     \begin{tabular}{@{}l@{}l@{}l@{}}
4778   }
4779   {\end{tabular}\end{lrbox}}
4780
4781   {\BCmd\fbbox{\usebox\boxdef}\endBCmd}
4782   \aftergroup\@afterindentfalse\aftergroup\@afterheading
4783 }
4784
4785 \newenvironment{BDef*}
4786   {\begin{lrbox}\boxdef
4787     \def\arraystretch{1.0}
4788     \begin{tabular}{@{}l@{}l@{}l@{}}
4789   }
4790   {\end{tabular}\end{lrbox}}
4791   {\begin{BCmd*}\fbbox{\usebox\boxdef}\end{BCmd*}}
4792   \aftergroup\@afterindentfalse\aftergroup\@afterheading
4793 }
4794 \newenvironment{BCmd}{
4795   \@beginparpenalty-\@lowpenalty
4796   \topsep\BDefaboveskip
4797   \fbboxsep3pt
4798   \flushleft}
4799 {\@endparpenalty\@M
4800 \topsepadd\BDefbelowskip
4801 \endflushleft}
4802
4803 \newenvironment{BCmd*}{
4804   \@beginparpenalty\@M
4805   \topsep\BDefinlineskip
4806   \fbboxsep3pt
4807   \flushleft}
4808 {\@endparpenalty5000
4809 \endflushleft}
4810
4811 \newskip\BDefaboveskip
4812 \newskip\BDefbelowskip
4813 \newskip\BDefinlineskip
4814 \setlength\BDefaboveskip{10pt plus 4pt}
4815 \setlength\BDefbelowskip{6pt}
4816 \setlength\BDefinlineskip{6pt}
4817
4818 \def\OptArgs{\colorbox{black!20}{\texttt{[Options]}}\kern1pt}
4819 \def\OptArg{\@ifnextchar*\OptArgi{\OptArg@ii*}}
4820 \def\OptArg@i*#1{\colorbox{black!20}{\texttt{#1}}\kern1pt}
4821 \def\OptArg@ii*#1{\colorbox{black!20}{\texttt{#1}}}\kern1pt}

```

49 File bidiftnxtra.sty



```

4822 \NeedsTeXFormat{LaTeX2e}
4823 \ProvidesPackage{bidiftnxtra}
4824 \newtoks\bidip@ftn
4825 \let\FN@sffootnote\footnote
4826 \let\FN@sffootnote\LTRfootnote
4827 \let\FN@sffootnote\RTLfootnote
4828 \def\footnote{\ifx\protect\@typeset@protect
4829   \expandafter\FN@sffootnote
4830   \else
4831     \expandafter\FN@sfgobble@opt
4832   \fi
4833 }
4834 \def\LTRfootnote{\ifx\protect\@typeset@protect
4835   \expandafter\FN@sffootnote
4836   \else
4837     \expandafter\FN@sfgobble@opt
4838   \fi
4839 }
4840 \def\RTLfootnote{\ifx\protect\@typeset@protect
4841   \expandafter\FN@sffootnote
4842   \else
4843     \expandafter\FN@sfgobble@opt
4844   \fi
4845 }
4846 \edef\FN@sfgobble@opt{\noexpand\protect
4847   \expandafter\noexpand\csname FN@sfgobble@opt \endcsname}
4848 \expandafter\def\csname FN@sfgobble@opt \endcsname{%
4849   \ifnextchar[%]
4850     \FN@sfgobble@twobrace
4851     \gobble
4852   }
4853 \def\FN@sfgobble@twobrace[#1]#2{}
4854 \let\FN@sffootnotemark\footnotemark
4855 \def\footnotemark{\ifx\protect\@typeset@protect
4856   \expandafter\FN@sffootnotemark
4857   \else
4858     \expandafter\FN@sfgobble@optonly
4859   \fi
4860 }
4861 \edef\FN@sfgobble@optonly{\noexpand\protect
4862   \expandafter\noexpand\csname FN@sfgobble@optonly \endcsname}
4863 \expandafter\def\csname FN@sfgobble@optonly \endcsname{%
4864   \ifnextchar[%]
4865     \FN@sfgobble@brace
4866     {}%
4867   }
4868 \def\FN@sfgobble@brace[#1]{}
4869 \def\@tabular{%
4870   \leavevmode \hbox \bgroup
4871   \let\@footnotetext\bidip@ftntext
4872   \let\@LTRfootnotetext\bidip@LTRftntext
4873   \let\@RTLfootnotetext\bidip@RTLftntext
4874   \let\@xfootnotenext\bidip@xftntext
4875   \let\@xfootnote\bidip@xfootnote

```



```

4876 \let\@xLTRfootnotenext\bidip@xLTRftntext
4877 \let\@xLTRfootnote\bidip@xLTRfootnote
4878 \let\@xRTLfootnotenext\bidip@xRTLftntext
4879 \let\@xRTLfootnote\bidip@xRTLfootnote
4880 \if@RTLtab\beginR \fi
4881 $\let\@acol\@tabacol
4882 \let\@classz\@tabclassz
4883 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
4884 \def\endtabular{\crcr\egroup\if@RTLtab\egroup\endR\egroup\fi
4885 \egroup $\if@RTLtab\endR\fi\egroup
4886 \ifx\@captive\@undefined
4887 \global\bidip@ftn\expandafter{\expandafter}\the\bidip@ftn\fi}
4888 \long\def\bidip@ftntext#1{%
4889 \edef\@tempy{\the\bidip@ftn\noexpand\footnotetext[\the\csname c@\mpfn\endcsname]}%
4890 \global\bidip@ftn\expandafter{\@tempy{#1}}}%
4891 \long\def\bidip@p@LTRftntext#1{%
4892 \edef\@tempyi{\the\bidip@ftn\noexpand\LTRfootnotetext[\the\csname c@\mpfn\endcsname]}%
4893 \global\bidip@ftn\expandafter{\@tempyi{#1}}}%
4894 \long\def\bidip@p@RTLftntext#1{%
4895 \edef\@tempyii{\the\bidip@ftn\noexpand\RTLfootnotetext[\the\csname c@\mpfn\endcsname]}%
4896 \global\bidip@ftn\expandafter{\@tempyii{#1}}}%
4897
4898
4899 \long\def\bidip@p@xftntext[#1]#2{%
4900 \global\bidip@ftn\expandafter{\the\bidip@ftn\footnotetext[#1]{#2}}}
4901
4902 \long\def\bidip@p@xLTRftntext[#1]#2{%
4903 \global\bidip@ftn\expandafter{\the\bidip@ftn\LTRfootnotetext[#1]{#2}}}
4904
4905 \long\def\bidip@p@xRTLftntext[#1]#2{%
4906 \global\bidip@ftn\expandafter{\the\bidip@ftn\RTLfootnotetext[#1]{#2}}}
4907
4908
4909 \def\bidip@p@xfootnote[#1]{%
4910 \begingroup
4911 \csname c@\mpfn\endcsname #1\relax
4912 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4913 \endgroup
4914 \@footnotemark\bidip@p@xftntext[#1]}
4915
4916
4917 \def\bidip@p@xLTRfootnote[#1]{%
4918 \begingroup
4919 \csname c@\mpfn\endcsname #1\relax
4920 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4921 \endgroup
4922 \@footnotemark\bidip@p@xLTRftntext[#1]}
4923
4924
4925 \def\bidip@p@xRTLfootnote[#1]{%
4926 \begingroup
4927 \csname c@\mpfn\endcsname #1\relax
4928 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4929 \endgroup

```



```

4930 \footnotemark\bidip@xRTLftntext[#1]}
4931
4932 \def\xfloat #1[#2]{%
4933 \nodocument
4934 \def \capttype {#1}%
4935 \def \fps {#2}%
4936 \onelevel@sanitize \fps
4937 \def \reserved@b {!}%
4938 \ifx \reserved@b \fps
4939 \fpsadddefault
4940 \else
4941 \ifx \fps \empty
4942 \fpsadddefault
4943 \fi
4944 \fi
4945 \ifhmode
4946 \bsphack
4947 \@floatpenalty -\Mii
4948 \else
4949 \@floatpenalty-\Miii
4950 \fi
4951 \ifinner
4952 \parmoderr\@floatpenalty\z@
4953 \else
4954 \@next\@currbox\@freelist
4955 {%
4956 \@tempcnta \sixt@n
4957 \expandafter \@tfor \expandafter \reserved@a
4958 \expandafter :\expandafter =\@fps
4959 \do
4960 {%
4961 \if \reserved@a h%
4962 \ifodd \@tempcnta
4963 \else
4964 \advance \@tempcnta \@ne
4965 \fi
4966 \fi
4967 \if \reserved@a t%
4968 \setfpsbit \tw@
4969 \fi
4970 \if \reserved@a b%
4971 \setfpsbit 4%
4972 \fi
4973 \if \reserved@a p%
4974 \setfpsbit 8%
4975 \fi
4976 \if \reserved@a !%
4977 \ifnum \@tempcnta>15
4978 \advance\@tempcnta -\sixt@n\relax
4979 \fi
4980 \fi
4981 }%
4982 \@tempcntb \csname ftype@\capttype \endcsname
4983 \multiply \@tempcntb \xxxii

```



```

4984      \advance \@tempcnta \@tempcntb
4985      \global \count\@currbox \@tempcnta
4986      }%
4987      \@fltovf
4988 \fi
4989 \global \setbox\@currbox
4990   \color@vbox
4991   \normalcolor
4992   \vbox \bgroup
4993   \let\@footnotetext\bidip@ftntext
4994   \let\@LTRfootnotetext\bidip@LTRftntext
4995   \let\@RTLfootnotetext\bidip@RTLftntext
4996   \let\@xfootnotenext\bidip@xftntext
4997   \let\@xfootnote\bidip@xfootnote
4998   \let\@xLTRfootnotenext\bidip@xLTRftntext
4999   \let\@xLTRfootnote\bidip@xLTRfootnote
5000   \let\@xRTLfootnotenext\bidip@xRTLftntext
5001   \let\@xRTLfootnote\bidip@xRTLfootnote
5002   \hsize\columnwidth
5003   \@parboxrestore
5004   \@floatboxreset
5005 }
5006 \def \endfloatbox{%
5007   \par\vskip\z@skip      %% \par\vskip\z@ added 15 Dec 87
5008   \@minipagefalse
5009   \outer@nobreak
5010   \egroup                %% end of vbox
5011   \global\bidip@ftn\expandafter{\expandafter}\the\bidip@ftn
5012   \color@endbox
5013 }

```

50 File bidimoderncv.cls

```

5014 \NeedsTeXFormat{LaTeX2e}
5015 \ProvidesClass{bidimoderncv}
5016 \newif\if@DEBUG\@DEBUGfalse
5017 \DeclareOption{a4paper}{
5018   \setlength\paperheight{297mm}
5019   \setlength\paperwidth{210mm}}
5020 \DeclareOption{a5paper}{
5021   \setlength\paperheight{210mm}
5022   \setlength\paperwidth{148mm}}
5023 \DeclareOption{b5paper}{
5024   \setlength\paperheight{250mm}
5025   \setlength\paperwidth{176mm}}
5026 \DeclareOption{letterpaper}{
5027   \setlength\paperheight{11in}
5028   \setlength\paperwidth{8.5in}}
5029 \DeclareOption{legalpaper}{
5030   \setlength\paperheight{14in}
5031   \setlength\paperwidth{8.5in}}
5032 \DeclareOption{executivepaper}{
5033   \setlength\paperheight{10.5in}
5034   \setlength\paperwidth{7.25in}}

```



```

5035 \DeclareOption{landscape}{
5036   \setlength\@tempdima{\paperheight}
5037   \setlength\paperheight{\paperwidth}
5038   \setlength\paperwidth{\@tempdima}
5039 \newcommand\@ptsize{}
5040 \DeclareOption{10pt}{\renewcommand\@ptsize{0}}
5041 \DeclareOption{11pt}{\renewcommand\@ptsize{1}}
5042 \DeclareOption{12pt}{\renewcommand\@ptsize{2}}
5043 \DeclareOption{draft}{\setlength\overfullrule{5pt}}
5044 \DeclareOption{final}{\setlength\overfullrule{0pt}}
5045 \newif\if@colour\@colourtrue
5046 \DeclareOption{nocolour}{\@colourfalse}
5047 \ExecuteOptions{a4paper,11pt,colour,final}
5048 \ProcessOptions\relax
5049 \input{size1\@ptsize.clo}
5050 \RequirePackage{color}
5051 \RequirePackage{graphicx}
5052 \RequirePackage{ifthen}
5053 \RequirePackage{marvosym}
5054 \addtolength{\oddsidemargin}{-54pt}
5055 \addtolength{\textwidth}{109pt}
5056 \addtolength{\topmargin}{-70pt}
5057 \addtolength{\textheight}{122pt}
5058 \addtolength{\marginparsep}{-5pt}
5059 \addtolength{\marginparwidth}{-10pt}
5060 \RequirePackage{url}
5061 \RequirePackage{hyperref}
5062 \hypersetup{%
5063   breaklinks,
5064   baseurl      = http://,%
5065   pdfborder    = 0 0 0,%
5066   pdfpagemode  = UseNone,%
5067   pdfstartpage = 1}
5068 \AtEndOfClass{%
5069   \AtBeginDocument{%
5070     \hypersetup{%
5071       pdfauthor    = \@firstname~\@familyname,%
5072       pdftitle     = \@title,%
5073       pdfsubject   = \@firstname~\@familyname,%
5074       pdfkeywords  = \@resumename~\@firstname~\@familyname}}}
5075 \urlstyle{tt}
5076 \RequirePackage{fancyhdr}
5077 \fancypagestyle{plain}{%
5078   \renewcommand{\headrulewidth}{0pt}
5079   \renewcommand{\footrulewidth}{0pt}
5080   \fancyhf{}}
5081 \pagestyle{plain}
5082 \setlength\lineskip{1\p@}
5083 \setlength\normallineskip{1\p@}
5084 \renewcommand\baselinestretch{}
5085 \setlength{\parindent}{0pt}
5086 \setlength{\parskip}{0pt}
5087 \setlength\columnsep{10\p@}
5088 \setlength\columnseprule{0\p@}

```



```

5089 \pagestyle{empty}
5090 \pagenumbering{arabic}
5091 \raggedbottom
5092 \onecolumn
5093 \providecommand*{\listitemsymbol}{\textbullet}
5094 \providecommand*{\addresssymbol}{}
5095 \providecommand*{\mobilesymbol}{\Mobilefone}
5096 \providecommand*{\phonesymbol}{\Telefon}
5097 \providecommand*{\faxsymbol}{\FAX}
5098 \providecommand*{\emailsymbol}{\Letter}
5099 \definecolor{firstnamecolor}{rgb}{0,0,0}
5100 \def\firstnamecolour#1{\gdef\@firstnamecolour{\addfontfeature{Color=#1}}}
5101 \def\familynamecolour#1{\gdef\@familynamecolour{\addfontfeature{Color=#1}}}
5102 \def\titlecolour#1{\gdef\@titlecolour{\addfontfeature{Color=#1}}}
5103 \def\addresscolour#1{\gdef\@addresscolour{\addfontfeature{Color=#1}}}
5104 \def\quotecolour#1{\gdef\@quotecolour{\addfontfeature{Color=#1}}}
5105 \def\sectiontitlecolour#1{\gdef\@sectiontitlecolour{\addfontfeature{Color=#1}}}
5106 \definecolor{sectionrectanglecolor}{rgb}{0,0,0}
5107 \def\subsectioncolour#1{\gdef\@subsectioncolour{\addfontfeature{Color=#1}}}
5108 \def\hintcolour#1{\gdef\@hintcolour{\addfontfeature{Color=#1}}}
5109 \providecommand*{\firstnamefont}{}
5110 \providecommand*{\familynamefont}{}
5111 \providecommand*{\titlefont}{}
5112 \providecommand*{\addressfont}{}
5113 \providecommand*{\quotefont}{}
5114 \providecommand*{\sectionfont}{}
5115 \providecommand*{\subsectionfont}{}
5116 \providecommand*{\hintfont}{\small}
5117 \providecommand*{\firstnamestyle}[1]{\{\@firstnamefont\@firstnamecolour#1}}
5118 \providecommand*{\familynamestyle}[1]{\{\@familynamefont\@familynamecolour#1}}
5119 \providecommand*{\titlestyle}[1]{\{\@titlefont\@titlecolour#1}}
5120 \providecommand*{\addresstyle}[1]{\{\@addressfont\@addresscolour#1}}
5121 \providecommand*{\quotestyle}[1]{\{\@quotefont\@quotecolour#1}}
5122 \providecommand*{\sectionstyle}[1]{\{\@sectionfont\@sectiontitlecolour#1}}
5123 \providecommand*{\subsectionstyle}[1]{\{\@subsectionfont\@subsectioncolour#1}}
5124 \providecommand*{\hintstyle}[1]{\{\@hintfont\@hintcolour#1}}
5125 \newcommand*{\cvtheme}[2][]{\{
5126   \def\@cvtheme{#2}
5127   \def\@cvthemeoptions{#1}}
5128 \cvtheme{bidi-casual}
5129 \AtBeginDocument{\RequirePackage[\@cvthemeoptions]{cvtheme\@cvtheme}}
5130 \newcommand*{\resumenamename}[1]{\def\@resumenamename{#1}}
5131 \newcommand*{\firstname}[1]{\def\@firstname{#1}}
5132 \newcommand*{\familyname}[1]{\def\@familyname{#1}}
5133 \renewcommand*{\title}[1]{\def\@title{#1}}
5134 \newcommand*{\address}[1]{\def\@address{#1}}
5135 \newcommand*{\mobile}[1]{\def\@mobile{#1}}
5136 \newcommand*{\phone}[1]{\def\@phone{#1}}
5137 \renewcommand*{\fax}[1]{\def\@fax{#1}}
5138 \newcommand*{\email}[1]{\def\@email{#1}}
5139 \newcommand*{\extrainfo}[1]{\def\@extrainfo{#1}}
5140 \def\@photowidth{Opt}
5141 \newcommand*{\photo}[2][64pt]{\def\@photowidth{#1}\def\@photo{#2}}
5142 \newcommand*{\quote}[1]{\def\@quote{#1}}

```



```

5143 \newlength{\quotewidth}
5144 \newlength{\hintscolumnwidth}
5145 \newlength{\separatorcolumnwidth}
5146 \setlength{\separatorcolumnwidth}{0.025\textwidth}
5147 \newlength{\maincolumnwidth}
5148 \newlength{\doubleitemmaincolumnwidth}
5149 \newlength{\listitemsymbolwidth}
5150 \settowidth{\listitemsymbolwidth}{\listitemsymbol{}}~
5151 \newlength{\listitemmaincolumnwidth}
5152 \newlength{\listdoubleitemmaincolumnwidth}
5153 \newcommand*{\recomputethemelengths}{%
5154 \newcommand*{\recomputelengths}{%
5155 \setlength{\quotewidth}{0.65\textwidth}%
5156 \setlength{\maincolumnwidth}{\textwidth}%
5157 \addtolength{\maincolumnwidth}{-\separatorcolumnwidth}%
5158 \addtolength{\maincolumnwidth}{-\hintscolumnwidth}%
5159 \setlength{\listitemmaincolumnwidth}{\maincolumnwidth}%
5160 \addtolength{\listitemmaincolumnwidth}{-\listitemsymbolwidth}%
5161 \setlength{\doubleitemmaincolumnwidth}{\maincolumnwidth}%
5162 \addtolength{\doubleitemmaincolumnwidth}{-\hintscolumnwidth}%
5163 \addtolength{\doubleitemmaincolumnwidth}{-\separatorcolumnwidth}%
5164 \setlength{\doubleitemmaincolumnwidth}{0.5\doubleitemmaincolumnwidth}%
5165 \setlength{\listdoubleitemmaincolumnwidth}{\maincolumnwidth}%
5166 \addtolength{\listdoubleitemmaincolumnwidth}{-\listitemsymbolwidth}%
5167 \setlength{\listdoubleitemmaincolumnwidth}{0.475\listdoubleitemmaincolumnwidth}%
5168 \renewcommand{\headwidth}{\textwidth}%
5169 \recomputethemelengths}
5170 \setlength{\hintscolumnwidth}{0.15\textwidth}
5171 \recomputelengths
5172 \title{}
5173 \renewcommand*{\maketitle}{}
5174 \newcommand*{\section}[1]{%
5175 \vspace*{2.5ex \@plus 1ex \@minus .2ex}%
5176 \phantomsection}%
5177 \addcontentsline{toc}{part}{#1}%
5178 \parbox[m]{\hintscolumnwidth}{\bidi@raggedleft\hintfont{\leavevmode\color{sectionrectangle}
5179 \hspace{\separatorcolumnwidth}%
5180 \parbox[m]{\maincolumnwidth}{\sectionstyle{#1}}\[\[1ex]}
5181 \newcommand*{\subsection}[1]{%
5182 \cvline[0.45em]{\subsectionstyle{#1}}
5183 \newcommand*{\cvline}[3][.25em]{%
5184 \begin{tabular}{@{}p{\hintscolumnwidth}@{\hspace{\separatorcolumnwidth}}p{\maincolumnwidth}
5185 \bidi@raggedleft\hintfont{#2} &{#3}%
5186 \end{tabular}}\[\[1]}
5187 \newcommand*{\cvdoubleitem}[4]{%
5188 \cvline{#1}{\begin{minipage}[t]{\doubleitemmaincolumnwidth}#2\end{minipage}}%
5189 \hfill%
5190 \begin{minipage}[t]{\hintscolumnwidth}\bidi@raggedleft\hintfont{#3}\end{minipage}\hspace*{\
5191 \newcommand*{\cvlistitem}[2][\listitemsymbol]{%
5192 \cvline[0pt]{\begin{minipage}[t]{\listitemmaincolumnwidth}#2\end{minipage}}
5193 \newcommand*{\cvlistdoubleitem}[3][\listitemsymbol]{%
5194 \cvline[0pt]{\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#2\end{minipage}}%
5195 \hfill%
5196 \ifthenelse{\equal{#3}{}}%

```




```

5197     {}%
5198     {#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#3\end{minipage}}}}
5199 \newcommand*{\cventry}[6]{%
5200   \cvline{#1}{%
5201     {\bfseries#2}%
5202     \ifx#3\else{, {\slshape#3}}\fi%
5203     \ifx#4\else{, #4}\fi%
5204     \ifx#5\else{, #5}\fi%
5205     .%
5206     \ifx#6\else{\newline{}\begin{minipage}[t]{\linewidth}\small#6\end{minipage}}\fi
5207   }%
5208 \newcommand*{\cvlanguage}[3]{%
5209   \cvline{#1}{\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#2}\end{minipage}\hfill\begin{minipage}[t]{.775\maincolumnwidth}\small#3\end{minipage}}
5210 \newcommand*{\cvcomputer}[4]{%
5211   \cvdoubleitem{#1}{\small#2}{#3}{\small#4}}
5212 \newcommand*{\link}[2][]{%
5213   \ifthenelse{\equal{#1}{}}{%
5214     {\href{#2}{#2}}%
5215     {\href{#2}{#1}}}
5216 \newcommand*{\httplink}[2][]{%
5217   \ifthenelse{\equal{#1}{}}{%
5218     {\href{http://#2}{#2}}%
5219     {\href{http://#2}{#1}}}
5220 \newcommand*{\emailink}[2][]{%
5221   \ifthenelse{\equal{#1}{}}{%
5222     {\href{mailto:#2}{#2}}%
5223     {\href{mailto:#2}{#1}}}
5224 \newif\if@displaypagenumbers\@displaypagenumberstrue
5225 \newcommand*{\nopagenumbers}{\@displaypagenumbersfalse}
5226 \AtBeginDocument{%
5227   \if@displaypagenumbers%
5228     \ifundefined{r@lastpage}{\fi%
5229     \ifthenelse{\pageref{lastpage} > 1}{%
5230       \fancypagestyle{plain}{%
5231         \fancyfoot[r]{\beginL\addressfont\quotecolour\footnotesize\thepage\beginL/\endL\pageref{lastpage}}%
5232       \pagestyle{plain}}}%
5233   \AtEndDocument{\label{lastpage}}%
5234   \fi}
5235 \newlength{\bibindent}
5236 \setlength{\bibindent}{1.5em}
5237 \newcommand*{\bibliographyitemlabel}{\includegraphics{bidi-bibitem.pdf}}
5238 \newenvironment{thebibliography}[1]{%
5239   {%
5240     \section{\refname}%
5241     \small%
5242     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
5243     \bidi@thebibliography@font@hook%
5244     \begin{list}{\bibliographyitemlabel}%
5245       {%
5246         \setlength{\topsep}{0pt}%
5247         \setlength{\labelwidth}{\hintscolumnwidth}%
5248         \setlength{\labelsep}{\separatorcolumnwidth}%
5249         \leftmargin\labelwidth%
5250         \advance\leftmargin\labelsep%

```



```

5251      \@openbib@code%
5252      \usecounter{enumiv}%
5253      \let\p@enumiv\@empty%
5254      \renewcommand\theenumiv{\@arabic\c@enumiv}}%
5255      \sloppy\clubpenalty4000\widowpenalty4000%
5256  }%
5257  {%
5258      \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
5259      \end{list}%
5260  }
5261 \newcommand\newblock{\hskip .11em\@plus.33em\@minus.07em}
5262 \let\@openbib@code\@empty

```

51 File bidi-perpage.sty

```

5263 \NeedsTeXFormat{LaTeX2e}
5264 \ProvidesPackage{bidi-perpage}[2018/10/04 v0.4 Reset counter(s) on every page]
5265 \newcount\bidi@page@count
5266 \bidi@page@count\@ne
5267 \newcommand*{\ResetCounterPerPage}[2][\z@]{%
5268   \if@bidi@csundef\bidi@stepcounterhook@@#2}{%
5269     \expandafter\gdef\csname bidi@stepcounterhook@@#2\endcsname{%
5270   }}%
5271   \if@bidi@csundef{if@bidi@reset@#2@rerun}{%
5272     \expandafter\newif\csname if@bidi@reset@#2@rerun\endcsname
5273   }{}%
5274   \if@bidi@csundef\bidi@#2@count}{%
5275     \expandafter\newcount\csname bidi@#2@count\endcsname
5276   }{}%
5277   \csname bidi@#2@count\endcsname\z@
5278   \if@bidi@csundef\bidi@previous@page@@#2@count}{%
5279     \expandafter\newcount\csname
5280       bidi@previous@page@@#2@count\endcsname
5281   }{}%
5282   \csname bidi@previous@page@@#2@count\endcsname\z@
5283   \if@bidi@csundef\bidi@reset@#2@perpage}{%
5284     \bidi@AfterEndDocumentCheckLabelsRerun{%
5285       \csname if@bidi@reset@#2@rerun\endcsname
5286         \PackageWarningNoLine{bidi-perpage}{%
5287           Counter `#2' may not have been reset per page.
5288           Rerun to reset counter `#2' per page%
5289         }%
5290       \fi
5291     }%
5292   }{}%
5293   \expandafter\gdef\csname bidi@reset@#2@perpage\endcsname{%
5294     \global\advance\csname bidi@#2@count\endcsname\@ne
5295     \if@filesw
5296       \edef\@tempa{%
5297         \write\@auxout{%
5298           \string\bidi@counter@page{#2}%
5299           {\number\csname bidi@#2@count\endcsname}%
5300           {\noexpand\number\noexpand\bidi@page@count}%
5301         }%

```



```

5302     }%
5303     \@tempa
5304     \fi
5305     \begingroup\expandafter\expandafter\expandafter\endgroup
5306     \expandafter\ifx\csname bidi@#2@@\number\csname
5307     bidi@#2@count\endcsname\endcsname\relax
5308     \global\csname @bidi@reset@#2@reruntrue\endcsname
5309     \else
5310     \global\csname @bidi@reset@#2@rerunfalse\endcsname
5311     \expandafter\@tempcnta\csname bidi@#2@@\number
5312     \csname bidi@#2@count\endcsname\endcsname\relax
5313     \ifnum\@tempcnta=\csname
5314     bidi@previous@page@@#2@count\endcsname
5315     \else
5316     \global\csname
5317     bidi@previous@page@@#2@count\endcsname\@tempcnta
5318     \global\csname c@#2\endcsname#1\relax
5319     \fi
5320     \fi
5321     }%
5322     \expandafter\bidi@gappto\csname
5323     bidi@stepcounterhook@@#2\endcsname{%
5324     \csname bidi@reset@#2@perpage\endcsname
5325     }%
5326 }
5327 \def\bidi@counter@page#1#2#3{\bidi@namegdef\bidi@#1@#2}{#3}}
5328 \bidi@AtEndOutputPage{%
5329 \global\advance\bidi@page@count\@ne
5330 }

```

52 File biditools.sty

```

5331 \NeedsTeXFormat{LaTeX2e}
5332 \ProvidesPackage{biditools}[2025/02/02 v2.7 Programming tools for bidi package]
5333 \providecommand{\@bidi@saveprimitive}[2]{\begingroup\escapechar`\\ \relax
5334 \edef\@tempa{\string#1}\edef\@tempb{\meaning#1}%
5335 \ifx\@tempa\@tempb \global\let#2#1%
5336 \else
5337 \edef\@tempb{\meaning#2}%
5338 \ifx\@tempa\@tempb
5339 \else
5340 \@latex@error{Unable to properly define \string#2; primitive
5341 \noexpand#1no longer primitive}\@eha
5342 \fi
5343 \fi
5344 \endgroup}
5345 \newtoks\@bidi@envbody
5346 \newtoks\@bidi@emptytoks
5347 \def\bidi@addto@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5348 \def\bidi@collect@body#1{%
5349 \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5350 \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currenvir}}%
5351 \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5352 \begingroup

```



```

5353 \expandafter\let\csname\@currentvir\endcsname\@bidi@collect@@body
5354 \edef\@bidi@process@envbody{\expandafter\noexpand\csname\@currentvir\endcsname}%
5355 \bidi@process@envbody
5356 }
5357 \def\bidi@push@begins#1\begin#2{%
5358 \ifx\end#2\else b\expandafter\bidi@push@begins\fi
5359 }
5360 \def\bidi@collect@@body#1\end#2{%
5361 \edef\begin@bidi@stack{\bidi@push@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack
5362 \ifx\@empty\begin@bidi@stack
5363 \endgroup
5364 \@checkend{#2}%
5365 \bidi@addto@envbody{#1}%
5366 \else
5367 \bidi@addto@envbody{#1\end{#2}}%
5368 \fi
5369 \bidi@process@envbody % A little tricky! Note the grouping
5370 }
5371 \long\def\bidi@addto@long@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5372 \long\def\bidi@collect@long@body#1{%
5373 \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5374 \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currentvir}}%
5375 \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5376 \begingroup
5377 \expandafter\let\csname\@currentvir\endcsname\@bidi@collect@long@@body
5378 \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currentvir\endcsname}%
5379 \bidi@process@envbody
5380 }
5381 \long\def\bidi@push@long@begins#1\begin#2{%
5382 \ifx\end#2\else b\expandafter\bidi@push@long@begins\fi
5383 }
5384 \long\def\bidi@collect@long@@body#1\end#2{%
5385 \edef\begin@bidi@stack{\bidi@push@long@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack
5386 \ifx\@empty\begin@bidi@stack
5387 \endgroup
5388 \@checkend{#2}%
5389 \bidi@addto@long@envbody{#1}%
5390 \else
5391 \bidi@addto@long@envbody{#1\end{#2}}%
5392 \fi
5393 \bidi@process@envbody % A little tricky! Note the grouping
5394 }
5395 \long\def\bidi@new@ifnextchar#1#2#3{%
5396 \let\reserved@d= #1%
5397 \def\reserved@a{#2}\def\reserved@b{#3}%
5398 \futurelet\@let@token\bidi@new@ifnch
5399 }
5400 \def\bidi@new@ifnch{%
5401 \ifx\@let@token\reserved@d \let\reserved@b\reserved@a \fi
5402 \reserved@b
5403 }
5404 \def\bidi@matrix@check#1{%
5405 \expandafter\ifx\csname\@currentvir\endcsname#1%
5406 \else\bidi@matrix@error#1%

```



```

5407 \expandafter\@gobble
5408 \fi
5409 }
5410 \def\ bidi@matrix@error#1{%
5411 \PackageError{biditools}{%
5412 Old form '\string#1' should be \string\begin{\expandafter\@gobble\string#1}%
5413 }{%
5414 '\string#1{...}' is old bidi package syntax whose use is
5415 ill-advised in the old versions of bidi package.%
5416 }%
5417 }
5418 \def\eqnewif#1#2{%
5419 \count@\escapechar \escapechar\m@ne
5420 \let#1\iffalse
5421 \let#2\iffalse
5422 \eq@if#1#2\iftrue
5423 \eq@if#1#2\iffalse
5424 \escapechar\count@}
5425 \def\eq@if#1#2#3{%
5426 \expandafter\def\csname\expandafter\@gobbletwo\string#1%
5427 \expandafter\@gobbletwo\string#3\endcsname
5428 {\let#1#3%
5429 \let#2#3}%
5430 \expandafter\def\csname\expandafter\@gobbletwo\string#2%
5431 \expandafter\@gobbletwo\string#3\endcsname
5432 {\let#2#3%
5433 \let#1#3}}
5434 \def\noteqnewif#1#2{%
5435 \count@\escapechar \escapechar\m@ne
5436 \let#1\iffalse
5437 \let#2\iffalse
5438 \not@eq@if#1#2\iftrue\iffalse
5439 \escapechar\count@}
5440 \def\not@eq@if#1#2#3#4{%
5441 \expandafter\def\csname\expandafter\@gobbletwo\string#1%
5442 \expandafter\@gobbletwo\string#3\endcsname
5443 {\let#1#3%
5444 \let#2#4}%
5445 \expandafter\def\csname\expandafter\@gobbletwo\string#1%
5446 \expandafter\@gobbletwo\string#4\endcsname
5447 {\let#1#4%
5448 \let#2#3}%
5449 \expandafter\def\csname\expandafter\@gobbletwo\string#2%
5450 \expandafter\@gobbletwo\string#3\endcsname
5451 {\let#2#3%
5452 \let#1#4}%
5453 \expandafter\def\csname\expandafter\@gobbletwo\string#2%
5454 \expandafter\@gobbletwo\string#4\endcsname
5455 {\let#2#4%
5456 \let#1#3}}
5457 \newcommand*{\SetBoolean}[2]{%
5458 \lowercase{\def\@tempa{#2}}%
5459 \@ifundefined{\@tempwa\@tempa}%
5460 {\PackageError{biditools}%

```



```

5461      {You can only set a boolean to `true' or `false'}\@ehc}%
5462      {\@ifundefined{#1\@tempa}%
5463      {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
5464      {\csname#1\@tempa\endcsname}}}
5465 \newcommand*{\GlobalSetBoolean}[2]{%
5466   \lowercase{\def\@tempa{#2}}%
5467   \@ifundefined{\@tempswa\@tempa}%
5468   {\PackageError{biditools}%
5469    {You can only set a boolean to `true' or `false'}\@ehc}%
5470   {\@ifundefined{#1\@tempa}%
5471    {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
5472    {\global\csname#1\@tempa\endcsname}}}
5473 \newcommand*{\SetatBoolean}[2]{%
5474   \lowercase{\def\@tempa{#2}}%
5475   \@ifundefined{\@tempswa\@tempa}%
5476   {\PackageError{biditools}%
5477    {You can only set a boolean to `true' or `false'}\@ehc}%
5478   {\@ifundefined{@#1\@tempa}%
5479    {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5480    {\csname @#1\@tempa\endcsname}}}
5481 \newcommand*{\GlobalSetatBoolean}[2]{%
5482   \lowercase{\def\@tempa{#2}}%
5483   \@ifundefined{\@tempswa\@tempa}%
5484   {\PackageError{biditools}%
5485    {You can only set a boolean to `true' or `false'}\@ehc}%
5486   {\@ifundefined{@#1\@tempa}%
5487    {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5488    {\global\csname @#1\@tempa\endcsname}}}
5489 \def\@bidi@removefromreset#1#2{%
5490   \expandafter\let\csname c@#1\endcsname\@bidi@removefromreset
5491   \def\@elt##1{%
5492     \expandafter\ifx\csname c@##1\endcsname\@bidi@removefromreset
5493     \else
5494       \noexpand\@elt{##1}%
5495     \fi}%
5496   \expandafter\xdef\csname cl@#2\endcsname{%
5497     \csname cl@#2\endcsname}}
5498 \newcommand*{\ifRtoL}{%
5499   \if@RTL
5500     \expandafter\@firstoftwo
5501   \else
5502     \expandafter\@secondoftwo
5503   \fi}
5504 \newcommand*{\ifLtoR}{%
5505   \if@RTL
5506     \expandafter\@secondoftwo
5507   \else
5508     \expandafter\@firstoftwo
5509   \fi}
5510 \newcommand*{\ifRtoLtable}{%
5511   \if@RTLtab
5512     \expandafter\@firstoftwo
5513   \else
5514     \expandafter\@secondoftwo

```



```

5515 \fi}
5516 \newcommand*{\ifLtoRtable}{%
5517 \if@RTLtab
5518 \expandafter\@secondoftwo
5519 \else
5520 \expandafter\@firstoftwo
5521 \fi}
5522 \newcommand*{\ifRtoLhboxconstruct}{%
5523 \if@hboxRconstruct
5524 \expandafter\@firstoftwo
5525 \else
5526 \expandafter\@secondoftwo
5527 \fi}
5528 \newcommand*{\ifLtoRhboxconstruct}{%
5529 \if@hboxRconstruct
5530 \expandafter\@secondoftwo
5531 \else
5532 \expandafter\@firstoftwo
5533 \fi}
5534 \newcommand*{\iflatin}{%
5535 \if@nonlatin
5536 \expandafter\@secondoftwo
5537 \else
5538 \expandafter\@firstoftwo
5539 \fi}
5540 \newcommand*{\ifnonlatin}{%
5541 \if@nonlatin
5542 \expandafter\@firstoftwo
5543 \else
5544 \expandafter\@secondoftwo
5545 \fi}
5546
5547 \newcommand*{\bidi@convert@dimen@t@unit}[2]{%
5548 \strip@pt\dimexpr #1*65536/\dimexpr 1#2\relax #2}
5549
5550 \newcommand*{\bidi@convert@dimen@t@pt}[1]{%
5551 \dimexpr #1*65536/\dimexpr 1pt\relax}
5552
5553 \newcommand*{\IfPackageVersionAtLeastTF}[1]{%
5554 \expandafter\@if@ver@pkg@least\csname #1@version\endcsname
5555 }
5556 \newcommand*{\@if@ver@pkg@least}[2]{%
5557 \ifnum\expandafter\bidi@parse@ver@#100\@nil<\expandafter\bidi@parse@ver@#200\@nil
5558 \expandafter\@secondoftwo
5559 \else
5560 \expandafter\@firstoftwo
5561 \fi
5562 }
5563 \newcommand*{\bidi@parse@ver@}[1]{\bidi@parse@ver0#1}
5564 \def\bidi@parse@ver#1.#2.#3#4#5\@nil{%
5565 \if\relax#2\relax\else#1\fi#2#3#4
5566 }
5567 \newcommand*{\IfPackageVersionAtMostTF}[1]{%
5568 \expandafter\@if@ver@pkg@most\csname #1@version\endcsname

```



```

5569 }
5570 \newcommand*{\@if@ver@pkg@most}[2]{%
5571   \ifnum\expandafter\@bidi@parse@ver@#100\@nil>\expandafter\@bidi@parse@ver@#200\@nil
5572     \expandafter\@secondoftwo
5573   \else
5574     \expandafter\@firstoftwo
5575   \fi
5576 }
5577 \newcommand*{\IfPackageVersionTF}[1]{%
5578   \expandafter\@if@ver@pkg@\csname #1@version\endcsname
5579 }
5580 \newcommand*{\@if@ver@pkg@}[2]{%
5581   \ifnum\expandafter\@bidi@parse@ver@#100\@nil=\expandafter\@bidi@parse@ver@#200\@nil
5582     \expandafter\@firstoftwo
5583   \else
5584     \expandafter\@secondoftwo
5585   \fi
5586 }
5587
5588 \newcommand*{\if@bidi@csdef}[1]{%
5589   \ifcsname#1\endcsname
5590     \expandafter\@firstoftwo
5591   \else
5592     \expandafter\@secondoftwo
5593   \fi}
5594 \newcommand*{\if@bidi@csundef}[1]{%
5595   \ifcsname#1\endcsname
5596     \expandafter\ifx\csname#1\endcsname\relax
5597       \expandafter\expandafter
5598       \expandafter\@firstoftwo
5599     \else
5600       \expandafter\expandafter
5601       \expandafter\@secondoftwo
5602     \fi
5603   \else
5604     \expandafter\@firstoftwo
5605   \fi}
5606 \newcommand{\if@bidi@def}[1]{%
5607   \ifdefined#1%
5608     \expandafter\@firstoftwo
5609   \else
5610     \expandafter\@secondoftwo
5611   \fi}
5612 \newcommand{\if@bidi@undef}[1]{%
5613   \ifdefined#1%
5614     \ifx#1\relax
5615       \expandafter\expandafter
5616       \expandafter\@firstoftwo
5617     \else
5618       \expandafter\expandafter
5619       \expandafter\@secondoftwo
5620     \fi
5621   \else
5622     \expandafter\@firstoftwo

```




```

5623 \fi}
5624 \newcommand{\if@bidi@blank}[1]{% from url.sty
5625 \bidi@ifblank@i#1&&@secondoftwo\@firstoftwo:}
5626 \long\def\bidi@ifblank@i#1#2&#3#4#5:{#4}
5627 \newcommand{\bidi@notblank}[1]{%
5628 \bidi@ifblank@i#1&&\@firstoftwo\@secondoftwo:}
5629 \newcommand{\if@bidi@defmacro}{%
5630 \long\edef\if@bidi@defmacro#1{%
5631 \noexpand\expandafter\noexpand\bidi@ifdefmacro
5632 \noexpand\meaning#1\detokenize{macro}:&}
5633 \edef\bidi@ifdefmacro{%
5634 \def\noexpand\bidi@ifdefmacro##1\detokenize{macro}:##2&}
5635 \bidi@ifdefmacro{\bidi@notblank{#2}}
5636 \newcommand*{\if@bidi@csmacro}[1]{%
5637 \if@bidi@csdef{#1}
5638 {\expandafter\if@bidi@defmacro\csname#1\endcsname}
5639 {\@secondoftwo}}
5640 \newcommand{\if@bidi@defprimitive}[1]{%
5641 \ifprimitive#1%
5642 \expandafter\@firstoftwo
5643 \else
5644 \expandafter\@secondoftwo
5645 \fi}
5646 \newcommand{\if@bidi@csprimitive}[1]{%
5647 \begingroup\expandafter\expandafter\expandafter\endgroup%
5648 \expandafter\ifprimitive\csname#1\endcsname%
5649 \expandafter\@firstoftwo
5650 \else
5651 \expandafter\@secondoftwo
5652 \fi}
5653 \newcommand*{\bidi@csdefcs}[2]{%
5654 \expandafter\@ifdefinable \csname#1\endcsname{%
5655 \expandafter\def\csname#1\expandafter\endcsname{\csname#2\endcsname}}
5656 \newcommand*{\bidi@csletcs}[2]{%
5657 \expandafter\@ifdefinable \csname#1\endcsname{%
5658 \expandafter\let\csname#1\expandafter\endcsname\csname#2\endcsname}}
5659 \newcommand*{\bidi@cslet}[2]{%
5660 \expandafter\@ifdefinable \csname#1\endcsname{%
5661 \expandafter\let\csname#1\endcsname#2}}
5662 \newcommand{\bidi@namelongdef}[1]{%
5663 \long\expandafter\def\csname #1\endcsname}
5664 \newcommand{\bidi@namelonggdef}[1]{%
5665 \long\expandafter\gdef\csname #1\endcsname}
5666 \newcommand{\bidi@namelongedef}[1]{%
5667 \long\expandafter\edef\csname #1\endcsname}
5668 \newcommand{\bidi@namelongxdef}[1]{%
5669 \long\expandafter\xdef\csname #1\endcsname}
5670 \def\bidi@ensure@newcommand{\@star@or@long\bidi@ensure@new@command}
5671 \def\bidi@ensure@new@command#1{%
5672 \begingroup \escapechar\mOne\xdef\@gtempa{\string#1}\endgroup
5673 \expandafter\if@bidi@csundef\@gtempa
5674 {\new@command#1}{\relax%
5675 \let\@ifdefinable\rc@ifdefinable%
5676 \new@command#1}}

```



```

5677 \def\bidienure@newlength#1{\if@bidi@undef#1{\newskip#1}{}}
5678
5679 \protected\def\biderror{\PackageError{bidi}}
5680 \protected\def\bidwarning{\PackageWarning{bidi}}
5681 \protected\def\bidwarningnoline{\PackageWarningNoLine{bidi}}
5682 \protected\def\bidinfo{\PackageInfo{bidi}}
5683
5684 \def\bidipos#1#2#3#4{\bidinamegdef{bidi@#1pos@@#2@#3}{#4}}
5685
5686 \newcount\bidiposcount
5687
5688 \newcommand*{\WriteStartXPostoaux}{%
5689   \global\advance\bidiposcount\@ne
5690   \edef\@tempa{%
5691     \write\@auxout{%
5692       \string\bidipos{x}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5693     }%
5694   }%
5695   \ifvmode
5696     \leavevmode
5697   \fi
5698   \if@RTL
5699     \if@filesw
5700       \@tempa
5701     \fi
5702     \pdfsavepos
5703   \else
5704     \pdfsavepos
5705     \if@filesw
5706       \@tempa
5707     \fi
5708   \fi
5709   \if@bidi@csundef{bidi@xpos@@start@\number\bidiposcount}{%
5710     \PackageWarningNoLine{biditools}{%
5711       The start x position '\number\bidiposcount' is not known yet.
5712       Rerun to get this x position%
5713     }%
5714   }{}%
5715 }
5716
5717 \newcommand*{\WriteEndXPostoaux}{%
5718   \edef\@tempa{%
5719     \write\@auxout{%
5720       \string\bidipos{x}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5721     }%
5722   }%
5723   \if@RTL
5724     \if@filesw
5725       \@tempa
5726     \fi
5727     \pdfsavepos
5728   \else
5729     \pdfsavepos
5730   \if@filesw

```



```

5731 \@tempa
5732 \fi
5733 \fi
5734 \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{%
5735     \PackageWarningNoLine{biditools}{%
5736         The end x position `\'number\bidi@poscount' is not known yet.
5737         Rerun to get this x position%
5738     }%
5739 }{}%
5740 }
5741
5742 \newcommand*{\WriteStartYPostoaux}{%
5743     \global\advance\bidi@poscount\@ne
5744     \edef\@tempa{%
5745         \write\@auxout{%
5746             \string\bidi@pos{y}{start}{\'number\bidi@poscount}{\'noexpand\number\noexpand\pdflasty
5747         }%
5748     }%
5749     \ifvmode
5750         \leavevmode
5751     \fi
5752     \if@RTL
5753         \if@filesw
5754             \@tempa
5755         \fi
5756         \pdfsavepos
5757         \else
5758             \pdfsavepos
5759         \if@filesw
5760             \@tempa
5761         \fi
5762     \fi
5763     \if@bidi@csundef{bidi@ypos@@start@\number\bidi@poscount}{%
5764         \PackageWarningNoLine{biditools}{%
5765             The start y position `\'number\bidi@poscount' is not known yet.
5766             Rerun to get this y position%
5767         }%
5768     }{}%
5769 }
5770
5771 \newcommand*{\WriteEndYPostoaux}{%
5772     \edef\@tempa{%
5773         \write\@auxout{%
5774             \string\bidi@pos{y}{end}{\'number\bidi@poscount}{\'noexpand\number\noexpand\pdflasty
5775         }%
5776     }%
5777     \if@RTL
5778         \if@filesw
5779             \@tempa
5780         \fi
5781         \pdfsavepos
5782         \else
5783             \pdfsavepos
5784         \if@filesw

```



```

5785 \tempa
5786 \fi
5787 \fi
5788 \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{%
5789 \PackageWarningNoLine{biditools}{%
5790 The end y position ` \number\bidi@poscount' is not known yet.
5791 Rerun to get this y position%
5792 }%
5793 }{}%
5794 }
5795
5796 \newcommand*{\WriteStartXYPostoaux}{%
5797 \global\advance\bidi@poscount\one
5798 \edef\tempa{%
5799 \write\@auxout{%
5800 \string\bidi@pos{x}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflastx
5801 }%
5802 \write\@auxout{%
5803 \string\bidi@pos{y}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflasty
5804 }%
5805 }%
5806 \ifvmode
5807 \leavevmode
5808 \fi
5809 \if@RTL
5810 \if@filesw
5811 \tempa
5812 \fi
5813 \pdfsavepos
5814 \else
5815 \pdfsavepos
5816 \if@filesw
5817 \tempa
5818 \fi
5819 \fi
5820 \if@bidi@csundef{bidi@xpos@@start@\number\bidi@poscount}{%
5821 \PackageWarningNoLine{biditools}{%
5822 The start x position ` \number\bidi@poscount' is not known yet.
5823 Rerun to get this x position%
5824 }%
5825 }{}%
5826 \if@bidi@csundef{bidi@ypos@@start@\number\bidi@poscount}{%
5827 \PackageWarningNoLine{biditools}{%
5828 The start y position ` \number\bidi@poscount' is not known yet.
5829 Rerun to get this y position%
5830 }%
5831 }{}%
5832 }
5833
5834 \newcommand*{\WriteEndXYPostoaux}{%
5835 \edef\tempa{%
5836 \write\@auxout{%
5837 \string\bidi@pos{x}{end}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflastx
5838 }%

```



```

5839         \write\@auxout{%
5840             \string\bidipos{y}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdfasty
5841         }%
5842     }%
5843 \if@RTL
5844     \if@filesw
5845     \@tempa
5846 \fi
5847 \pdfsavepos
5848 \else
5849 \pdfsavepos
5850 \if@filesw
5851     \@tempa
5852 \fi
5853 \fi
5854 \if@bidi@csundef{bidi@xpos@@end@\number\bidiposcount}{%
5855     \PackageWarningNoLine{biditools}{%
5856         The end x position ``\number\bidiposcount' is not known yet.
5857         Rerun to get this x position%
5858     }%
5859 }{}%
5860 \if@bidi@csundef{bidi@ypos@@end@\number\bidiposcount}{%
5861     \PackageWarningNoLine{biditools}{%
5862         The end y position ``\number\bidiposcount' is not known yet.
5863         Rerun to get this y position%
5864     }%
5865 }{}%
5866 }
5867
5868 \newcommand*{\currentposxwidth}{%
5869     \if@bidi@csundef{bidi@xpos@@end@\number\bidiposcount}{\z@}
5870     {%
5871         \ifnum\csname bidi@xpos@@start@\number\bidiposcount
5872         \endcsname < \csname bidi@xpos@@end@\number\bidiposcount
5873         \endcsname
5874         \dimexpr \csname bidi@xpos@@end@\number\bidiposcount
5875         \endcsname sp - \csname bidi@xpos@@start@\number\bidiposcount
5876         \endcsname sp\relax
5877     \else
5878         \dimexpr \csname bidi@xpos@@start@\number\bidiposcount
5879         \endcsname sp - \csname bidi@xpos@@end@\number\bidiposcount
5880         \endcsname sp\relax
5881     \fi
5882     }%
5883 }
5884
5885 \newcommand*{\currentposyheight}{%
5886     \if@bidi@csundef{bidi@ypos@@end@\number\bidiposcount}{\z@}
5887     {%
5888         \dimexpr \csname bidi@ypos@@start@\number\bidiposcount
5889         \endcsname sp - \csname bidi@ypos@@end@\number\bidiposcount
5890         \endcsname sp\relax
5891     }%
5892 }

```



```

5893
5894
5895
5896 \newcommand*{\setbaselineskip}[1]{%
5897     \linespread{\strip@pt\dimexpr\numexpr\dimexpr#1\relax*65536/\dimexpr\baselineskip\relax}
5898     \selectfont
5899 }
5900
5901
5902 \newcommand*{\bidi@newrobustcmd}{}
5903 \protected\def\bidi@newrobustcmd{\@star@or@long\bidi@new@command}
5904
5905 \def\bidi@new@command#1{\@testopt{\bidi@newcommand#1}0}
5906
5907 \def\bidi@newcommand#1[#2]{%
5908     \@ifnextchar[%
5909         {\bidi@xargdef#1[#2]}
5910         {\ifx\l@ngrel@x\relax
5911             \let\l@ngrel@x\protected
5912             \else
5913                 \protected\def\l@ngrel@x{\protected\long}%
5914             \fi
5915             \@argdef#1[#2]}}
5916
5917 \long\def\bidi@xargdef#1[#2][#3]#4{%
5918     \@ifdefinable#1{%
5919         \expandafter\protected
5920         \expandafter\def
5921         \expandafter#1%
5922         \expandafter{%
5923             \expandafter\@testopt
5924             \csname\string#1\endcsname{#3}}}%
5925     \expandafter\@yargdef\csname\string#1\endcsname\tw@{#2}{#4}}
5926
5927 \bidi@newrobustcmd*{\bidi@renewrobustcmd}{\@star@or@long\bidi@renew@command}
5928
5929 \def\bidi@renew@command#1{%
5930     \if@bidi@undef{#1}
5931         {\bidi@error{\string#1 undefined}\@ehc}
5932         {}%
5933     \let\@ifdefinable\@rc@ifdefinable
5934     \bidi@new@command#1}
5935
5936
5937
5938 \bidi@newrobustcmd*{\bidi@providerobustcmd}{\@star@or@long\bidi@provide@command}
5939
5940 \def\bidi@provide@command#1{%
5941     \if@bidi@undef{#1}
5942         {\def\reserved@a{\bidi@new@command#1}}
5943         {\def\reserved@a{\bidi@renew@command\reserved@a}}%
5944     \reserved@a}
5945
5946 \newcommand*{\bidi@csuse}[1]{%

```



```

5947 \ifcsname#1\endcsname
5948 \csname#1\expandafter\endcsname
5949 \fi}
5950
5951 \newcommand{\bidi@expandonce}[1]{%
5952 \unexpanded\expandafter{#1}}
5953
5954 \def\bidi@protected{%
5955 \let\@@protect\protect
5956 \let\protect\@unexpandable@protect
5957 \afterassignment\restore@protect}
5958
5959 \bidi@newrobustcmd{\bidi@appto}[2]{%
5960 \if@bidi@undef{#1}
5961 {\edef#1{\unexpanded{#2}}}
5962 {\edef#1{\bidi@expandonce#1\unexpanded{#2}}}}
5963 \bidi@newrobustcmd{\bidi@eappto}[2]{%
5964 \if@bidi@undef{#1}
5965 {\edef#1{#2}}
5966 {\edef#1{\bidi@expandonce#1#2}}}
5967 \bidi@newrobustcmd{\bidi@gappto}[2]{%
5968 \if@bidi@undef{#1}
5969 {\xdef#1{\unexpanded{#2}}}
5970 {\xdef#1{\bidi@expandonce#1\unexpanded{#2}}}}
5971 \bidi@newrobustcmd{\bidi@xappto}[2]{%
5972 \if@bidi@undef{#1}
5973 {\xdef#1{#2}}
5974 {\xdef#1{\bidi@expandonce#1#2}}}
5975
5976 \bidi@newrobustcmd*{\bidi@protected@eappto}{\bidi@protected\bidi@eappto}
5977 \bidi@newrobustcmd*{\bidi@protected@xappto}{\bidi@protected\bidi@xappto}
5978
5979
5980
5981 \bidi@newrobustcmd{\bidi@preto}[2]{%
5982 \if@bidi@undef{#1}
5983 {\edef#1{\unexpanded{#2}}}
5984 {\edef#1{\unexpanded{#2}\bidi@expandonce#1}}}
5985 \bidi@newrobustcmd{\bidi@epreto}[2]{%
5986 \if@bidi@undef{#1}
5987 {\edef#1{#2}}
5988 {\edef#1{#2\bidi@expandonce#1}}}
5989 \bidi@newrobustcmd{\bidi@gpreto}[2]{%
5990 \if@bidi@undef{#1}
5991 {\xdef#1{\unexpanded{#2}}}
5992 {\xdef#1{\unexpanded{#2}\bidi@expandonce#1}}}
5993 \bidi@newrobustcmd{\bidi@xpreto}[2]{%
5994 \if@bidi@undef{#1}
5995 {\xdef#1{#2}}
5996 {\xdef#1{#2\bidi@expandonce#1}}}
5997
5998 \bidi@newrobustcmd*{\bidi@protected@epreto}{\bidi@protected\bidi@epreto}
5999 \bidi@newrobustcmd*{\bidi@protected@xpreto}{\bidi@protected\bidi@xpreto}
6000

```



```

6001
6002
6003 \bidi@newrobustcmd*{\bidi@csappto}[1]{\expandafter\bidi@appto\csname#1\endcsname}
6004 \bidi@newrobustcmd*{\bidi@cseappto}[1]{\expandafter\bidi@eappto\csname#1\endcsname}
6005 \bidi@newrobustcmd*{\bidi@csgappto}[1]{\expandafter\bidi@gappto\csname#1\endcsname}
6006 \bidi@newrobustcmd*{\bidi@csxappto}[1]{\expandafter\bidi@xappto\csname#1\endcsname}
6007 \bidi@newrobustcmd*{\bidi@protected@cseappto}{\bidi@protected\bidi@cseappto}
6008 \bidi@newrobustcmd*{\bidi@protected@csxappto}{\bidi@protected\bidi@csxappto}
6009
6010
6011
6012 \bidi@newrobustcmd*{\bidi@cspreto}[1]{\expandafter\bidi@preto\csname#1\endcsname}
6013 \bidi@newrobustcmd*{\bidi@csepreto}[1]{\expandafter\bidi@epreto\csname#1\endcsname}
6014 \bidi@newrobustcmd*{\bidi@csgpreto}[1]{\expandafter\bidi@gpreto\csname#1\endcsname}
6015 \bidi@newrobustcmd*{\bidi@csxpreto}[1]{\expandafter\bidi@xpreto\csname#1\endcsname}
6016 \bidi@newrobustcmd*{\bidi@protected@csepreto}{\bidi@protected\bidi@csepreto}
6017 \bidi@newrobustcmd*{\bidi@protected@csxpreto}{\bidi@protected\bidi@csxpreto}
6018
6019
6020
6021 \bidi@newrobustcmd*{\if@bidi@patchable}{%
6022   \bidi@dbg@trce\if@bidi@patchable
6023   \begingroup
6024   \@makeother\%#
6025   \@ifstar\bidi@ifpatchable@i\bidi@ifpatchable}
6026
6027 \long\def\bidi@ifpatchable#1#2{%
6028   \endgroup
6029   \bidi@dbg@init#1%
6030   \if@bidi@undef{#1}
6031     {\bidi@dbg@fail{def}\@secondoftwo}
6032     {\bidi@dbg@info{def}%
6033       \if@bidi@defmacro{#1}
6034         {\bidi@dbg@info{mac}%
6035           \bidi@ifscanable{#1}
6036             {\bidi@ifhashcheck{#2}
6037               {\bidi@dbg@info{tok}%
6038                 \bidi@ifpattern#1{#2}
6039                 {\bidi@dbg@info{pat}%
6040                   \bidi@dbg@info{pos}\@firstoftwo}
6041                   {\bidi@dbg@fail{pat}\@secondoftwo}}}
6042               {\bidi@dbg@fail{hsh}\@secondoftwo}}}
6043             {\bidi@dbg@fail{tok}\@secondoftwo}}}
6044             {\bidi@dbg@fail{mac}\@secondoftwo}}}
6045
6046 \long\def\bidi@ifpatchable@i#1{%
6047   \endgroup
6048   \bidi@dbg@init#1%
6049   \if@bidi@undef{#1}
6050     {\bidi@dbg@fail{def}\@secondoftwo}
6051     {\bidi@dbg@info{def}%
6052       \if@bidi@defmacro{#1}
6053         {\bidi@dbg@info{mac}%
6054           \if@bidi@defparam{#1}

```




```

6055         {\bidi@dbg@info{prm}}%
6056         \bidi@ifscanable{#1}
6057         {\bidi@dbg@info{tok}}%
6058         \bidi@dbg@info{pos}\@firstoftwo}
6059         {\bidi@dbg@fail{tok}\@secondoftwo}}
6060     {\bidi@dbg@info{prl}}%
6061     \if@bidi@defprotected{#1}
6062     {\bidi@dbg@info{pro}}
6063     {}%
6064     \bidi@dbg@info{pos}\@firstoftwo}}
6065     {\bidi@dbg@fail{mac}\@secondoftwo}}}}
6066
6067 \bidi@newrobustcmd*{\bidi@patchcmd}{%
6068   \bidi@dbg@trce\bidi@patchcmd
6069   \begingroup
6070   \@makeother\#%
6071   \bidi@@patchcmd}
6072
6073 \newcommand{\bidi@@patchcmd}[4][#####1]{%
6074   \bidi@ifpatchable#2{#3}
6075   {\bidi@dbg@succ{ret}}%
6076   \begingroup
6077   \edef\bidi@resrvda{%
6078     \def\noexpand\bidi@resrvda####1\detokenize{macro:}####2->####3&{%
6079       #1\def\string\bidi@resrvda\space####2{\noexpand\bidi@resrvdb####3&}}}%
6080   \def\noexpand\bidi@resrvdb####1\detokenize{#3}####2&{%
6081     ####1\detokenize{#4}####2}%
6082   \edef\noexpand\bidi@resrvda{%
6083     \noexpand\bidi@resrvda\meaning#2&}}%
6084   \bidi@resrvda
6085   \bidi@patchcmd@scantoks\bidi@resrvda
6086   \let#2\bidi@resrvda
6087   \bidi@undef\bidi@resrvda
6088   \@firstoftwo}
6089   {\@secondoftwo}}
6090
6091 \def\bidi@patchcmd@scantoks#1{%
6092   \edef\bidi@resrvda{\endgroup
6093     \unexpanded{\makeatletter\scantokens}{#1}%
6094     \catcode\number`\@=\the\catcode`\@ \relax}%
6095   \bidi@resrvda}
6096
6097 \protected\def\bidi@ifscanable#1{%
6098   \begingroup
6099   \edef\bidi@resrvda{%
6100     \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
6101       ####1\def\string\bidi@resrvda####2{####3}}}%
6102     \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda\meaning#1&}}%
6103   \bidi@resrvda
6104   \makeatletter
6105   \scantokens\expandafter{\bidi@resrvda}%
6106   \expandafter\endgroup\ifx#1\bidi@resrvda
6107     \expandafter\@firstoftwo
6108   \else

```



```

6109 \expandafter\@secondoftwo
6110 \fi}
6111
6112
6113 \protected\long\def\bid@ifhashcheck#1{%
6114 \begingroup
6115 \edef\bid@resrvda{\detokenize{#1}}%
6116 \expandafter\endgroup
6117 \expandafter\bid@ifhashcheck@i\meaning\bid@resrvda&}
6118
6119 \edef\bid@ifhashcheck@i#1{%
6120 \noexpand\expandafter
6121 \noexpand\bid@ifhashcheck@ii
6122 \noexpand\strip@prefix#1\string#\string#&}
6123
6124 \edef\bid@ifhashcheck@ii{%
6125 \def\noexpand\bid@ifhashcheck@ii##1\string#\string###2&}
6126 \bid@ifhashcheck@ii{\if@bidi@blank{#2}}
6127
6128
6129 \protected\long\def\bid@ifpattern#1#2{%
6130 \begingroup
6131 \edef\bid@resrvda{%
6132 \def\noexpand\bid@resrvda####1\detokenize{#2}###2&%
6133 \endgroup\noexpand\noexpand\noexpand\if@bidi@blank{####2}}%
6134 \edef\noexpand\bid@resrvda{\noexpand\bid@resrvda
6135 \expandafter\strip@prefix\meaning#1\detokenize{#2}&%
6136 \noexpand\bid@resrvda}
6137 \bid@resrvda\@secondoftwo\@firstoftwo}
6138
6139
6140 \newcommand{\if@bidi@defparam}{%
6141 \long\edef\if@bidi@defparam#1{%
6142 \noexpand\expandafter\noexpand\bid@ifdefparam
6143 \noexpand\meaning#1\detokenize{macro}:->&}
6144 \edef\bid@ifdefparam{%
6145 \def\noexpand\bid@ifdefparam##1\detokenize{macro}:##2->##3&}
6146 \bid@ifdefparam{\bid@notblank{#2}}
6147
6148
6149 \newcommand{\if@bidi@defprotected}{%
6150 \long\edef\if@bidi@defprotected#1{%
6151 \noexpand\expandafter\noexpand\bid@ifdefprotected
6152 \noexpand\meaning#1\string\protected&}
6153 \edef\bid@ifdefprotected{%
6154 \def\noexpand\bid@ifdefprotected##1\string\protected##2&}
6155 \bid@ifdefprotected{\bid@notblank{#2}}
6156
6157
6158 \bid@newrobustcmd{\bid@undef}[1]{\let#1\bid@undefined}
6159 \bid@newrobustcmd{\bid@csundef}[1]{%
6160 \expandafter\let\csname #1\endcsname\bid@undefined
6161 }
6162

```



```

6163 \let\bididbg@trce\@gobble
6164 \let\bididbg@init\@gobble
6165 \let\bididbg@info\@gobble
6166 \let\bididbg@succ\@gobble
6167 \let\bididbg@fail\@gobble
6168
6169
6170
6171 \bidinewrobustcmd*\bidiapptocmd}{%
6172   \bididbg@trce\bidiapptocmd
6173   \begingroup
6174   \@makeother\#%
6175   \bidihooktocmd\bidiaappend}
6176
6177
6178
6179 \bidinewrobustcmd*\bidipretocmd}{%
6180   \bididbg@trce\bidipretocmd
6181   \begingroup
6182   \@makeother\#%
6183   \bidihooktocmd\bidipprepend}
6184
6185 \long\def\bidihooktocmd#1#2#3{%
6186   \endgroup
6187   \bididbg@init#2%
6188   \if@bididef\bididbg@fail{#2}
6189     {\bididbg@fail{def}\@secondoftwo}
6190     {\bididbg@info{def}}%
6191     \if@bididefmacro{#2}
6192       {\bididbg@info{mac}}%
6193       \if@bididefparam{#2}
6194         {\bididbg@info{prm}}%
6195         \bididbg@ifscanable{#2}
6196         {\bididbg@ifhashcheck{#3}
6197           {\bididbg@info{tok}}%
6198           \bididbg@succ{ret}}%
6199         \bidihooktocmd@i#1#2{#3}%
6200         \@firstoftwo}
6201         {\bididbg@fail{hsh}\@secondoftwo}}
6202         {\bididbg@fail{tok}\@secondoftwo}}
6203       {\bididbg@info{prl}}%
6204       \if@bididefprotected{#2}
6205         {\bididbg@info{pro}}%
6206         \bididbg@succ{red}}%
6207         \protected}
6208         {\bididbg@succ{red}}}%
6209       \edef#2{#1{\bididbg@expandonce#2}{\unexpanded{#3}}}%
6210       \@firstoftwo}}
6211   {\bididbg@fail{mac}\@secondoftwo}}
6212
6213 \long\def\bidihooktocmd@i#1#2#3{%
6214   \begingroup
6215   \edef\bidiresrvda{%
6216     \def\noexpand\bidiresrvda####1\detokenize{macro}:####2->####3&{%

```



```

6217     #####\def\string\bidirsvda\space####2{#1{####3}{\detokenize{#3}}}%
6218     \edef\noexpand\bidirsvda{%
6219         \noexpand\bidirsvda\meaning#2&}}%
6220     \bidirsvda
6221     \bidirpatchcmd@scantoks\bidirsvda
6222     \let#2\bidirsvda
6223     \bidirundef\bidirsvda}
6224
6225 \long\def\bidirappend#1#2{#1#2}
6226 \long\def\bidirprepend#1#2{#2#1}
6227
6228 %\bidirnewrobustcmd*{\bidirAtEndPreamble}{\bidirgappto\bidir@endpreamblehook}
6229 %\newcommand*{\bidir@endpreamblehook}{}
6230
6231 \bidirnewrobustcmd*{\bidirAtEndPreamble}{\AddToHook{begindocument/before}}%
6232
6233 \bidirnewrobustcmd*{\bidirBeforeOutputPageShipOut}{\bidirgappto\bidirbeforeoutputpageshipout}
6234 \newcommand*{\bidirbeforeoutputpageshipouthook}{}
6235
6236 \bidirnewrobustcmd*{\bidirBeforeHeader}{\bidirgappto\bidirbeforeheaderhook}
6237 \newcommand*{\bidirbeforeheaderhook}{}
6238
6239 \bidirnewrobustcmd*{\bidirBeforeOutputBoxOutputPage}{\bidirgappto\bidirbeforeoutputboxoutput}
6240 \newcommand*{\bidirbeforeoutputboxoutputpagehook}{}
6241
6242 \bidirnewrobustcmd*{\bidirAfterOutputBoxOutputPage}{\bidirgappto\bidirafteroutputboxoutput}
6243 \newcommand*{\bidirafteroutputboxoutputpagehook}{}
6244
6245 \bidirnewrobustcmd*{\bidirBeforeFooter}{\bidirgappto\bidirbeforefooterhook}
6246 \newcommand*{\bidirbeforefooterhook}{}
6247
6248 \bidirnewrobustcmd*{\bidirAfterFooter}{\bidirgappto\bidirafterfooterhook}
6249 \newcommand*{\bidirafterfooterhook}{}
6250
6251
6252 \bidirnewrobustcmd*{\bidirAfterOutputPageShipOut}{\bidirgappto\bidirafteroutputpageshipouthook}
6253 \newcommand*{\bidirafteroutputpageshipouthook}{}
6254
6255 \bidirnewrobustcmd*{\bidirAtEndOutputPage}{\bidirgappto\bidiratendoutputpagehook}
6256 \newcommand*{\bidiratendoutputpagehook}{}
6257
6258 %\bidir@preto\document{%
6259 %    \endgroup
6260 %    \let\bidirAtEndPreamble\@firstofone
6261 %    \bidir@endpreamblehook
6262 %    \protected\def\bidirAtEndPreamble{\@notprerr\@gobble}%
6263 %    \bidirundef\bidir@endpreamblehook
6264 %    \begingroup}
6265
6266 \bidirnewrobustcmd*{\bidirAfterPreamble}{\AtBeginDocument}
6267 \bidirAtEndPreamble{\let\bidirAfterPreamble\@firstofone}
6268
6269 %\bidirnewrobustcmd*{\bidirAfterEndPreamble}{\bidirgappto\bidirafterendpreamblehook}
6270 %\newcommand*{\bidirafterendpreamblehook}{}

```



```

6271
6272 \bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\AddToHook{begindocument/end}}%
6273
6274 %\bidi@appto\document{%
6275 % \let\bidi@AfterEndPreamble\@firstofone
6276 % \bidi@afterendpreamblehook
6277 % \protected\def\bidi@AfterEndPreamble{\@notprerr\@gobble}%
6278 % \bidi@undef\bidi@afterendpreamblehook
6279 % \ignorespaces}
6280
6281 \bidi@newrobustcmd*{\bidi@AfterEndDocumentCheckLabelsRerun}{\bidi@gappto\bidi@afterenddocumenthook}
6282 \newcommand*{\bidi@afterenddocumentchecklabelsrerunhook}{\bidi@afterenddocumenthook}
6283
6284 \bidi@patchcmd\enddocument
6285 {\fi}
6286 {\let\bidi@AfterEndDocumentCheckLabelsRerun\@firstofone
6287 \bidi@afterenddocumentchecklabelsrerunhook
6288 \fi}
6289 {}
6290 {\PackageWarning{biditools}{Patching '\string\enddocument' failed}}
6291
6292 \AtEndDocument{\let\bidi@AfterEndPreamble\@gobble}
6293
6294 \bidi@newrobustcmd*{\bidi@AfterLastShipout}{\bidi@gappto\bidi@afterlastshipouthook}
6295 \newcommand*{\bidi@afterlastshipouthook}{\bidi@afterlastshipouthook}
6296
6297 \bidi@patchcmd\enddocument
6298 {\clearpage}
6299 {\clearpage
6300 \let\bidi@AfterLastShipout\@firstofone
6301 \bidi@afterlastshipouthook}
6302 {}
6303 {\let\bidi@clearpage\clearpage
6304 \def\clearpage{%
6305 \bidi@clearpage
6306 \let\bidi@AfterLastShipout\@firstofone
6307 \bidi@afterlastshipouthook}}
6308
6309 %\bidi@newrobustcmd*{\bidi@AfterEndDocument}{\bidi@gappto\bidi@afterenddocumenthook}
6310 %\newcommand*{\bidi@afterenddocumenthook}{\bidi@afterenddocumenthook}
6311
6312 \bidi@newrobustcmd*{\bidi@AfterEndDocument}{\AddToHook{enddocument/end}}%
6313
6314 %\bidi@patchcmd\enddocument
6315 % {\deadcycles}
6316 % {\let\bidi@AfterEndDocument\@firstofone
6317 % \bidi@afterenddocumenthook
6318 % \deadcycles}
6319 % {}
6320 % {\let\bidi@@end\@end
6321 % \def\@end{%
6322 % \let\bidi@AfterEndDocument\@firstofone
6323 % \bidi@afterenddocumenthook
6324 % \bidi@@end}}

```



```

6325
6326 \bidi@newrobustcmd{\bidi@AtBeginEnvironment}[1]{%
6327   \bidi@csgappto{@bidi@begin@#1@hook}}
6328
6329 % Patch \begin<space> and \end<space> in newer LaTeX releases
6330 % \begin and \end in older ones.
6331 \expandafter\bidi@patchcmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6332   {\csname #1\endcsname}
6333   {\bidi@csuse{@bidi@begin@#1@hook}%
6334     \csname #1\endcsname}
6335   {}
6336   {\bidi@warning{%
6337     Patching '\string\begin' failed!\MessageBreak
6338     '\string\bidi@AtBeginEnvironment' will not work\@gobble}}
6339
6340
6341
6342 \bidi@newrobustcmd{\bidi@AtEndEnvironment}[1]{%
6343   \bidi@csgappto{@bidi@end@#1@hook}}
6344
6345 \expandafter\bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6346   {\csname end#1\endcsname}
6347   {\bidi@csuse{@bidi@end@#1@hook}%
6348     \csname end#1\endcsname}
6349   {}
6350   {\bidi@warning{%
6351     Patching '\string\end' failed!\MessageBreak
6352     '\string\bidi@AtEndEnvironment' will not work\@gobble}}
6353
6354
6355
6356 \bidi@newrobustcmd{\bidi@BeforeBeginEnvironment}[1]{%
6357   \bidi@csgappto{@bidi@beforebegin@#1@hook}}
6358
6359 \expandafter\bidi@pretocmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6360   {\bidi@csuse{@bidi@beforebegin@#1@hook}}
6361   {}
6362   {\bidi@warning{%
6363     Patching '\string\begin' failed!\MessageBreak
6364     '\string\bidi@BeforeBeginEnvironment' will not work\@gobble}}
6365
6366 \bidi@newrobustcmd{\bidi@AfterEndEnvironment}[1]{%
6367   \bidi@csgappto{@bidi@afterend@#1@hook}}
6368
6369 \expandafter\bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6370   {\if@ignore}
6371   {\bidi@csuse{@bidi@afterend@#1@hook}%
6372     \if@ignore}
6373   {}
6374   {\bidi@warning{%
6375     Patching '\string\end' failed!\MessageBreak
6376     '\string\bidi@AfterEndEnvironment' will not work\@gobble}}
6377
6378 \def\bidi@namedef#1{\expandafter\def\csname #1\endcsname}

```



```

6379 \def\bidinamegdef#1{\expandafter\gdef\csname #1\endcsname}
6380 \def\bidinameedef#1{\expandafter\edef\csname #1\endcsname}
6381 \def\bidinamexdef#1{\expandafter\xdef\csname #1\endcsname}
6382
6383 % From David Carlisle:
6384 % The \stpelt redefinition below belongs to Heiko Oberdiek
6385 % See also https://github.com/ho-tex/oberdiek/issues/26
6386
6387 \let\@bidi@stepcounter\stepcounter
6388 \let\@bidi@@stpelt\stpelt
6389
6390 \def\@stpelt#1{%
6391   \ifcsname bidi@reset@#1@perpage\endcsname
6392     \begingroup
6393       \let\stepcounter\@bidi@stepcounter
6394       \@bidi@@stpelt{#1}%
6395     \endgroup
6396     \expandafter\@gobbletwo
6397   \fi
6398   \@bidi@@stpelt{#1}%
6399 }
6400
6401 \bidi@pretocmd\stepcounter
6402 {%
6403   \if@bidi@csundef{bidi@stepcounterhook@@#1}{-}{%
6404     \csname bidi@stepcounterhook@@#1\endcsname
6405   }%
6406 }{-}%
6407 {\PackageWarning{biditools}{Patching '\string\stepcounter' failed}}
6408
6409 \chardef\bidi@backslash`\\
6410 \def\bidics#1{\texttt{\char\bidi@backslash#1}}
6411
6412 % anonymous control sequences
6413 \newcount\bidi@tempcountb
6414 \newtoks\bidi@temptoksa
6415 \newtoks\bidi@temptoksb
6416
6417 % Catcode (re)storing
6418 %
6419 \def\bidi@storecatcode#1%
6420   {\escapechar\m@ne
6421     \bidi@csarg\edef\bidi@restorecatcode\string#1}%
6422     {\catcode`\string#1=
6423       \the\catcode\expandafter`\string#1}%
6424     \catcode\expandafter`\string#1=12\relax
6425     \escapechar`\\ \relax}
6426 \def\bidi@restorecatcode#1%
6427   {\escapechar\m@ne
6428     \csname bidi@restorecatcode\string#1\endcsname
6429     \escapechar`\\ \relax}
6430
6431 % Construct a control sequence inside \edef
6432 %

```



```

6433 \def\bidicsname#1{\expandafter\noexpand\csname#1\endcsname}
6434
6435 % Construct a control sequence out of #2, and give it to #1
6436 %
6437 \def\bidicsarg#1#2{\expandafter#1\csname#2\endcsname}
6438
6439 % Pick an escapecharacter
6440 % this presumes that its argument is a character.
6441 %
6442 \def\bidipickescape#1{\ifnum`#1=\escapechar\else#1\fi}
6443
6444 % Equality of strings.
6445 % the fast approach: does not work in expansion-only environment.
6446 %
6447 \def\bidiequalstring#1#2{00\fi\def\bidieqs@a{#1}\def\bidieqs@b{#2}%
6448   \ifx\bidieqs@a\bidieqs@b}
6449
6450 % Test by expansion only
6451 %
6452 \def\bidiequalstringX#1#2{00\fi
6453   \csname if\@bidiequalstringX#1&#2&$\endcsname}
6454 \def\@bidiequalstringX#1#2$#3#4${\ifx#1#3%
6455   \ifx#1&true\else\bidihop@ES\@bidiequalstringX#2$#4$\fi
6456   \else false\fi}
6457 \def\bidihop@ES#1\fi#2\fi{\fi\fi#1}
6458
6459 % Lexicographic ordering
6460 % note the use of \def
6461 % also note the characters 0,127,255 that are used,
6462 % these are not supposed to appear in the strings
6463 %
6464 {\catcode0=12 \catcode255=12 \catcode127=12
6465 \gdef\bidistringbeforeNC#1#2{00\fi
6466   \bidicharsbefore#1^^@^^?#2^^ff^^?}
6467 \gdef\bidicharsbeforeNC#1#2^^?#3#4^^?{%
6468   \ifcat#1\relax\def\bidinext{\bidicharsbefore#2^^@^^?#3#4^^ff^^?}%
6469   \else\ifcat#3\relax\def\bidinext{\bidicharsbefore#1#2^^@^^?#4^^ff^^?}%
6470     \else\ifnum\lccode`#1<\lccode`#3
6471       \def\bidinext{\csname iftrue\endcsname}%
6472     \else\ifnum\lccode`#1>\lccode`#3
6473       \def\bidinext{\csname iffalse\endcsname}%
6474     \else\def\bidinext{\bidicharsbefore#2^^?#4^^?}%
6475   \fi \fi \fi \fi
6476   \bidinext}
6477 \gdef\bidistringbefore#1#2{00\fi
6478   \bidicharsbefore#1^^@^^?#2^^ff^^?}
6479 \gdef\bidicharsbefore#1#2^^?#3#4^^?{%
6480   \ifnum`#1<`#3
6481     \def\bidinext{\csname iftrue\endcsname}%
6482   \else\ifnum`#1>`#3
6483     \def\bidinext{\csname iffalse\endcsname}%
6484   \else\def\bidinext{\bidicharsbefore#2^^?#4^^?}%
6485   \fi\fi
6486   \bidinext}

```




```

6487 }
6488
6489 % Null argument test
6490 %
6491 \def\bidempty{}
6492 \def\bidempty#1{00\fi\expandafter\ifx\csname bidi@#1\endcsname\bidempty\bid@null}
6493 \def\bidemptyX#1{\expandafter\ifx\csname bidi@#1\endcsname\bidempty\bid@null}
6494 %\def\bidempty#1{\def\bid@cs@a{#1}\ifx\bid@cs@a\bidempty}
6495 \def\bid@IsEmptyList#1{00\fi\def\bid@cs@a{#1}\ifx\cs@a\bidempty}
6496
6497 % Next character test
6498 %
6499 \def\bid@NextChar#1#2#3{00\fi
6500     \let\bid@nxt@ch#1\def\bid@nxt@a{#2}\def\bid@nxt@b{#3}%
6501     \futurelet\bid@nxt@c\@bid@ifnxtc}
6502 \def\bid@ifNextChar#1#2#3{%
6503     \let\bid@nxt@ch#1\def\bid@nxt@a{#2}\def\bid@nxt@b{#3}%
6504     \futurelet\bid@nxt@c\@bid@ifnxtc}
6505 \def\@bid@ifnxtc{\ifx\bid@nxt@ch\bid@nxt@c \expandafter\bid@nxt@a
6506     \else \expandafter\bid@nxt@b \fi}
6507
6508 % Test for defined-ness of string as control sequence.
6509 % works inside \edef
6510 %
6511 \def\bid@undefinedcs#1{00\fi\bid@csarg\ifx{#1}\relax}
6512
6513 % Define uniquely defined dummy macros,
6514 % usually to serve as bumper blocks at the end of a list
6515 %
6516 \newcount\bid@dummies
6517 \def\DefNewDummy#1{
6518     \if\bid@undefinedcs{#1}\bid@csarg\edef{#1}{\bid@dum\the\bid@dummies}
6519     \advance\bid@dummies\@ne
6520     \else
6521         \bid@error{Attempt at second definition of `#1'}
6522     \fi}
6523
6524 % string case statement
6525 % use: \bid@switch \iftest{...} in:
6526 %     item1 action1
6527 %     ...
6528 %     itemn actionn
6529 %     default defaultaction [optional]
6530 %     \endbid@switch
6531 % inspired by Jonathan Fine: Some Basic Control Macros
6532 % Tugboat 12 #4
6533 %
6534 \let\@bid@fi\fi \let\endbid@switch\relax \DefNewDummy{\bid@default}
6535 \def\bid@switch@exit #1 \@bid@fi #2 \endbid@switch {\fi #1}
6536 \def\bid@switch #1#2#3{\bid@csarg\ifx{#2}\bid@default\bid@switch@exit #3 \@bid@fi
6537     #1{#2}\bid@switch@exit #3 \@bid@fi
6538     \bid@switch {#1}
6539 }
6540 % this version puts the test object in {}

```



```

6541 \def\bidioswitch #1 in: #2 #3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi
6542 #1{#2}\bidi@switch@exit #3 \@bidi@fi
6543 \bidi@switch #1 in:
6544 }
6545 % this version assumes that the test object is just one character
6546 \def\bidi@cswitch #1 in: #2 #3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi
6547 #1#2\bidi@switch@exit #3 \@bidi@fi
6548 \bidi@cswitch #1 in:
6549 }
6550 % this version assumes that the test object can have an optional space
6551 \def\bidi@bswitch #1 in: #2 #3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi
6552 #1#2 \bidi@switch@exit #3 \@bidi@fi
6553 \bidi@bswitch #1 in:
6554 }
6555 % this version can cope with significant spaces at the start of #3;
6556 % #2 is macro argument
6557 \def\bidi@mswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi
6558 #1{#2}\bidi@switch@exit #3 \@bidi@fi
6559 \bidi@mswitch #1 in:
6560 }
6561 % idem; #2 does not have to be enclosed in braces
6562 \def\bidi@fswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi
6563 #1#2 \bidi@switch@exit #3 \@bidi@fi
6564 \bidi@fswitch #1 in:
6565 }
6566
6567 % Routines for taking the value of a string:
6568 % if the string is defined as control sequence
6569 % take the value of that, otherwise take the string itself
6570
6571 % String or value of control sequence
6572 %
6573 \def\bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else \the\csname#1\endcsname\fi}
6574
6575 % String or control sequence
6576 %
6577 \def\bidi@ww#1{\if\bidi@undefinedcs{#1}#1\else \csname#1\endcsname \fi}
6578
6579 % String or \noexpand-ed control sequence;
6580 % for use in \edef
6581 %
6582 \newif\ifbidi@in@label
6583 \def\bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else
6584 \ifbidi@in@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6585 \newtoks\bidi@are@these@correct
6586 \def\bidi@t@w@w#1{%
6587 \if\bidi@undefinedcs{#1}#1%
6588 \ifdefining\bidi@append@to@list\bidi@are@these@correct{#1 }\fi
6589 \else
6590 \ifin@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6591
6592 % List Manipulation .....
6593 % this assumes that #1 is a list of tokens, #2 is the name of a list
6594 %

```



```

6595 % Names of lists (and of items to pop into) are given as strings;
6596 % not as control sequences.
6597 %
6598 \newtoks\biditoks@lista \newtoks\biditoks@listb
6599 % basic append/prepend macro
6600 \long\def\@bidi@append@to@cslist#1#2#3{\begingroup\biditoks@lista=#2{#3}%
6601   \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter#1\the\biditoks@lista}
6602 \long\def\@bidi@prepend@to@cslist#1#2#3{\begingroup\biditoks@lista=#2{#3}%
6603   \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\biditoks@lista}
6604 \def\@bidi@append@to@list{\biditoksarg\@bidi@append@to@cslist}
6605 \def\@bidi@prepend@to@list{\biditoksarg\@bidi@prepend@to@cslist}
6606 % variations:
6607 \long\def\@bidi@append@to@list#1#2{\@bidi@append@to@list{#1}{#2}}
6608 \long\def\@bidi@prepend@to@list#1#2{\@bidi@prepend@to@list{#1}{#2}}
6609 \def\@bidi@append@list@to@list#1#2{%
6610   \@bidi@append@to@list{#1}{\expandafter\expandafter\expandafter}{\expandafter\the\csname#2\endcsname}
6611 \def\@bidi@prepend@list@to@list#1#2{%
6612   \@bidi@prepend@to@list{#1}{\expandafter\expandafter\expandafter}{\expandafter\the\csname#2\endcsname}
6613 \def\@bidi@append@cslist@to@cslist#1#2{%
6614   \@bidi@append@to@cslist{#1}\expandafter{\the#2}}
6615 \def\@bidi@prepend@cslist@to@cslist#1#2{%
6616   \@bidi@prepend@to@cslist{#1}\expandafter{\the#2}}
6617 \def\@bidi@append@toks@cs@to@list#1#2{\@bidi@append@to@list{#1}\expandafter{\the#2}}
6618 \def\@bidi@prepend@toks@cs@to@list#1#2{\@bidi@prepend@to@list{#1}\expandafter{\the#2}}
6619
6620 \let\@bidi@willbeunhskip\unhskip
6621
6622 % A few list macros for the user
6623 \def\NewTokenList:#1 {\biditoksarg\newtoks{#1}\global\csname#1\endcsname{}}
6624 \def\EmptyTokenList:#1 {\global\csname#1\endcsname{}}
6625 \long\def\AppendToTokenList:#1=#2 {\@bidi@append@to@list{#1}{#2}}
6626 \long\def\PrependToTokenList:#1=#2 {\@bidi@prepend@to@list{#1}{#2}}
6627 \def\TheTokenList:#1 {\let\@bidi@oldwbuskip\@bidi@willbeunhskip \let\@bidi@willbeunhskip\@empty
6628   \if\@bidi@undefinedcs{#1}\@bidi@error{Token List <#1> undefined}
6629   \else\biditoksarg\the{#1}\fi
6630   \let\@bidi@willbeunhskip\@bidi@oldwbuskip}
6631
6632 \def\@bidi@del@tok@from@list#1#2{\begingroup
6633   \long\def\@bidi@cs@liste##1#2##2\@bidi@tok@SM
6634     {\biditoks@lista{##1}\biditoks@listb{##2}%
6635     \edef\@bidi@cs@listb{\global\biditoks@lista=#1=
6636       {\the\biditoks@lista\the\biditoks@listb}}%
6637     \biditoks@listb}%
6638   \edef\@bidi@cs@lista{\noexpand\biditoks@liste}\expandafter\the\csname#1\endcsname\noexpand\@bidi@del@tok@from@list#1#2
6639   \biditoks@lista \endgroup}
6640 \def\@bidi@in@front@of@list#1{\biditoksarg{\let\expandafter\biditoks@lista}{#1}%
6641   \biditoks@in@front@of@cslist\biditoks@lista}
6642 \long\def\@bidi@in@front@of@cslist#1#2{\begingroup\biditoks@lista=#2}%
6643   \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\biditoks@lista}
6644   \endgroup}
6645 \long\def\@bidi@local@in@front@of@list#1#2{\biditoks@lista=#2}%
6646   \csname#1\endcsname\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
6647     {\expandafter\expandafter\expandafter\expandafter\the\expandafter\expandafter\expandafter\expandafter
6648       \expandafter\the\csname#1\endcsname}%

```



```

6649 }
6650 \def\bidiset@list#1{\bidicsarg{\let\expandafter\bidics@lista}{#1}%
6651 \bidiset@cslst\bidics@lista}
6652 \long\def\bidiset@cslst#1#2{\begingroup\biditoks@lista={#2}%
6653 \global#1=\expandafter{\the\biditoks@lista}\endgroup}
6654
6655 %%%%%%%%%%%%%%% Stack macros
6656 %
6657 % push in terms of prepending of lists
6658 \def\bidipush@cs@onto@cs#1#2{\@bidiprepend@to@cslst#1\expandafter{\expandafter\bidipush@onto@cs#1}}
6659 \def\bidipush@onto@cs#1#2{\@bidiprepend@to@cslst#1}{\{#2}}
6660 \def\bidipush@onto@cs#1#2{\@bidiprepend@to@cslst#1}{\{#2}}
6661 \def\bidilocal@push@onto@cs#1#2{\let\relax
6662 \bidilocal@in@front@of@list{#1}{\{#2}}
6663 % pop via auxiliary macro: #1 is result, #2 is stack
6664 % two cs arguments
6665 \def\bidipop@cs@into#1#2{\edef\bidics@e
6666 {\noexpand\@bidipopinto\noexpand#1\noexpand#2\the#2\noexpand\@bidipop}\bidics@e}
6667 % two string arguments
6668 \def\bidipop@into#1#2{\edef\bidics@e
6669 {\noexpand\@bidipopinto\bidicsname{#1}\bidicsname{#2}\bidicsarg\the{#2}\noexpand\@bidipop}
6670 \long\def\@bidipopinto#1#2\#3#4\@bidipop{#1{#3}#2{#4}}
6671 \def\bidicopy@stacktop#1#2{%
6672 \edef\bidics@e{\noexpand\@bidicopy@stacktop
6673 {#1}\bidicsarg\the{#2}\noexpand\@bidipop}%
6674 \bidics@e}
6675 \def\@bidicopy@stacktop#1\#2#3\@bidipop{\csname#1\endcsname#2\relax}
6676 \newcount\bidistack@length \newtoks\biditempty@stack \biditempty@stack{\{}}
6677 \def\bidilength@of@stack#1{\bidicsarg\bidilength@of@csstack{#1}}
6678 \def\bidilength@of@csstack#1{\def\advance\bidistack@length\@ne}%
6679 \bidistack@length\@ne \the#1}
6680 % turn a stack upside down
6681 \def\bidinvert@csstack#1{\bidilength@of@csstack{#1}%
6682 \biditempcountb\z@ \biditemptoksa\biditempty@stack
6683 \loop\ifnum\biditempcountb<\bidistack@length
6684 \bidipop@cs@into\biditemptoksb#1\advance\bidistack@length\@ne
6685 \bidipush@cs@onto@cs\biditemptoksa\biditemptoksb
6686 % \bidicopy@cs@onto@cs\biditemptoksa\biditemptoksb\biditemptoksa% append a to b
6687 % \biditemptoksa\biditemptoksb
6688 \repeat% copy b to a
6689 #1\biditemptoksa \biditemptoksa\biditempty@toks}
6690 % invert a stack into a list
6691 \def\bidix@stack@to@list#1{\bidilength@of@stack{#1}%
6692 \biditempcountb\z@ \biditemptoksa\biditempty@toks
6693 \loop\ifnum\biditempcountb<\bidistack@length
6694 \bidipop@into{\biditemptoksb}{#1}\advance\bidistack@length\@ne
6695 \bidicopy@cs@onto@cs\biditemptoksa\biditemptoksb\biditemptoksa\repeat
6696 \csname#1\endcsname\biditemptoksa \biditemptoksa\biditempty@toks}
6697
6698
6699 % General loop macro:
6700 % \looprepeat
6701 % \forvariable{<var>} \fromvalue{<start>} \bystep{<step>} \tovalue{<end>} \downtovalue{<end>}
6702 % \untilcondition{<cond>} \whilecondition{<cond>}

```



```

6703 % \doloopbody { <loop body> }
6704 % where all control sequences in between \looprepeat and \doloopbody are optional.
6705 %
6706 % var: characters to form a control sequence;
6707 % after \forvariable{index} you can access the loop counter as \index.
6708 % This is a count register; to print it use \number\index.
6709 % start,step,end: integers with obvious relations to the loop counter;
6710 % start and step have a default value of 1
6711 % cond: (sequence of commands ending in) any TeX \if... test.
6712 %
6713 % Count down instead of up with \downtovalue; the increment given in \bystep
6714 % is always positive, and is added or subtracted accordingly.
6715 %
6716 % Tests: \untilcondition is evaluated at the end of the loop body; \whilecondition
6717 % at the beginning of the loop body.
6718 %
6719 % Exit from middle of loop: \breaklooprepeat
6720 % use this at any place in the loop; in case of a conditional use
6721 % \ifsomething ... \expandafter \breaklooprepeat \fi
6722 %
6723 % Note that the line ends do not cause spaces in the output.
6724 %
6725 % Technical details:
6726 % The loop body is not executed in a group: the braces are those
6727 % of a token list.
6728 % The 'forvariable' variable is \let to a \count register.
6729
6730
6731
6732 % Auxiliary stuff
6733 \def\bidil@looprepeat@csarg#1#2{\expandafter#1\csname#2\endcsname}
6734 \def\bidil@looprepeat@csromannumeral#1{\csname #1\romannumeral\bidil@looprepeat@depth\endcsname}
6735 \def\bidil@looprepeat@csargromannumeral#1#2{\expandafter#1\csname#2\romannumeral\bidil@looprepeat@depth\endcsname}
6736
6737 \newcount\bidil@looprepeat@depth
6738 \let\endlooprepeat\relax \def\bidil@csprotect{}
6739 % Trace switches may later be defined by PAC_utils
6740 \let\bidil@looprepeat@traceinit\relax \let\bidil@looprepeat@traceexit\relax
6741
6742 % Main repeatloop macro
6743 % - go to next level and allocate unique counter/toks if this is the
6744 % first time we visit this level
6745 % - setup: gather bounds and termination conditions
6746 % - scoop up body in token list; after the assignment define and
6747 % execute body
6748 \def\looprepeat#1\doloopbody{\bidil@looprepeat@traceinit % exit in \breakrepeatloop
6749 \advance\bidil@looprepeat@depth\@ne\relax
6750 \bidil@looprepeat@csargromannumeral\ifx\bidil@looprepeat@count\relax
6751 \bidil@looprepeat@csargromannumeral{\csname newcount\expandafter\endcsname}{\bidil@looprepeat@count}
6752 \bidil@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidil@looprepeat@body}
6753 \bidil@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidil@looprepeat@body}
6754 \bidil@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidil@looprepeat@body}
6755 \fi \bidil@looprepeat@zero \def\bidil@looprepeat@sign{}\def\bidil@looprepeat@comp{>}\bidil@looprepeat@body
6756 \edef\bidil@looprepeat@tmp

```



```

6757     {\def\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@looprepeat}{\bidiloop
6758 \afterassignment\bidilooprepeat@dxbody\bidilooprepeat@csromannumeral{\bidilooprepeat@tok
6759
6760 % Define and execute loop body
6761 % This is done with an \edef to construct the actual sequence
6762 \def\bidilooprepeat@dxbody{\bidilooprepeat@csargromannumeral\edef{\bidilooprepeat@body}{%
6763 \bidilooprepeat@csargromannumeral\the{\bidilooprepeat@wtest}%
6764 \noexpand\the\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@toks}%
6765 \bidilooprepeat@csargromannumeral\the{\bidilooprepeat@utest}%
6766 \global\bidilooprepeat@csargromannumeral\advance{\bidilooprepeat@count} by \bidiloopre
6767 \noexpand\endlooprepeat
6768 \bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@looprepeat}}%
6769 \bidilooprepeat@csromannumeral{\bidilooprepeat@body}\ignorespaces}
6770
6771 % Stop test
6772 %% In order to stop, issue a
6773 % \breaklooprepeat which scoops up the rest of the body and exits
6774 \def\breaklooprepeat#1\endlooprepeat{\bidilooprepeat@zero\bidilooprepeat@csargromannumeral
6775 \advance\bidilooprepeat@depth\m@ne \bidilooprepeat@traceexit
6776 }
6777
6778
6779 % Setup
6780 % gather bounds and termination conditions
6781 \def\bidilooprepeat@setup#1{%
6782 \begingroup
6783 \def\forvariable##1{%
6784 \edef\bidilooprepeat@tmp{%
6785 \global\let\bidilooprepeat@csarg\noexpand{##1}\bidilooprepeat@csromannumeral{\bidiloop
6786 \bidilooprepeat@tmp}%
6787 \def\fromvalue##1{\bidilooprepeat@csargromannumeral\global{\bidilooprepeat@count}##1\ig
6788 \def\tovalue##1{%
6789 \edef\bidilooprepeat@tmp{\global\bidilooprepeat@csargromannumeral\noexpand{\bidiloop
6790 {\bidilooprepeat@csargromannumeral\the{\bidilooprepeat@wtest}%
6791 \noexpand\ifnum\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@count}\bi
6792 \noexpand\expandafter \noexpand\breaklooprepeat
6793 \noexpand\fi}\ignorespaces}%
6794 \bidilooprepeat@tmp}%
6795 \def\downtovalue##1{%
6796 \gdef\bidilooprepeat@sign{-}\gdef\bidilooprepeat@comp{<}\tovalue{##1}\ignorespaces}%
6797 \def\bystep##1{\ifnum##1<0 \bidierror{LOOPREPEAT: increment has to be a positive value}
6798 \bidilooprepeat@csargromannumeral\gdef{\bidilooprepeat@inc}{-##1}\else
6799 \bidilooprepeat@csargromannumeral\gdef{\bidilooprepeat@inc}{##1}\fi\ignoresp
6800 \def\untilcondition##1{%
6801 \edef\bidilooprepeat@tmp{\global\bidilooprepeat@csargromannumeral\noexpand{\bidiloop
6802 {\noexpand##1\relax
6803 \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6804 \bidilooprepeat@tmp}%
6805 \def\whilecondition##1{%
6806 \edef\bidilooprepeat@tmp{\global\bidilooprepeat@csargromannumeral\noexpand{\bidiloop
6807 {\noexpand##1\relax \noexpand\else
6808 \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6809 \bidilooprepeat@tmp}%
6810 \fromvalue{\@ne}\bystep{\@ne}#1%

```



```

6811 \endgroup}
6812 \def\bidi@looprepeat@zero
6813   {\bidi@looprepeat@csromannumeral{\bidi@looprepeat@toks}{}}\bidi@looprepeat@csromannumeral{b
6814   \bidi@looprepeat@csargromannumeral\def{\bidi@looprepeat@body}{}}
6815
6816 %\tracingmacros2
6817 %\newcount\tmpcount % used in some examples below
6818
6819 %\looprepeat \forvariable{i}
6820 %      \bystep{2}
6821 % \doloopbody {%
6822 %      \ifnum{i}=13 \expandafter\breaklooprepeat \fi
6823 %      \number{i}} %
6824 %}%
6825
6826 %\looprepeat \forvariable{iii}
6827 %      \tovalue{8}
6828 % \doloopbody {}
6829 %After loop: \number{iii}%
6830
6831 %\looprepeat \forvariable{i}
6832 %      \fromvalue{10}
6833 %      \bystep{2}
6834 %      \downtovalue{0}
6835 % \doloopbody {\number{i}} }
6836
6837 %\looprepeat \forvariable{x} \whilecondition{\ifnum{x}<7}
6838 % \doloopbody {\number{x}} }
6839
6840 %\looprepeat \tovalue{3} \doloopbody {Hello world! }
6841
6842 %\looprepeat \forvariable{j}
6843 %      \untilcondition{\tmpcount>j \divide\tmpcount by 37 \noexpand\ifnum\tmpcount=1}
6844 % \doloopbody {\number{j}} }
6845
6846 %\looprepeat \forvariable{i} \bystep{2} \tovalue{10} \doloopbody
6847 % {\looprepeat \forvariable{j} \fromvalue{i} \bystep{3} \tovalue{18}
6848 % \doloopbody {(\number{i}.\number{j}) }
6849 % }
6850
6851 % infinite loop
6852 %\looprepeat \doloopbody {}
6853
6854 \ExplSyntaxOn
6855 \NewDocumentCommand \bidi@AfterClass { s m o +m }
6856 {
6857   \IfBooleanTF { #1 }
6858   {
6859     \@ifclassloaded{ #2 }
6860     { #4 }
6861     {
6862       \hook_gput_code:nnn
6863       { file / #2.\@clsextension / after }
6864       { #3 }

```



```

6865         { #4 }
6866     }
6867 }
6868 {
6869     \hook_gput_code:nnn { file / #2.\@clsextension / after } { #3 } { #4 }
6870 }
6871 }
6872
6873 \seq_new:N \g__biditools_input_file_seq
6874
6875 \prg_new_protected_conditional:Npnn \__bidi_if_loading:n #1 { T, F, TF }
6876 {
6877     \str_set:Nx \l_tmpa_str { #1 }
6878     \seq_if_in:NxTF \g__biditools_input_file_seq { \str_use:N \l_tmpa_str }
6879     { \prg_return_true: }
6880     { \prg_return_false: }
6881 }
6882
6883 \prg_new_protected_conditional:Npnn \bidi_if_class_loaded:n #1 { T, F, TF }
6884 {
6885     \@ifclassloaded { #1 }
6886     {
6887         \__bidi_if_loading:nTF { #1.\@clsextension }
6888         { \prg_return_false: }
6889         { \prg_return_true: }
6890     }
6891     {
6892         \prg_return_false:
6893     }
6894 }
6895
6896 \prg_new_protected_conditional:Npnn \bidi_if_package_loaded:n #1 { T, F, TF }
6897 {
6898     \@ifpackageloaded { #1 }
6899     {
6900         \__bidi_if_loading:nTF { #1.\@pkgextension }
6901         { \prg_return_false: }
6902         { \prg_return_true: }
6903     }
6904     {
6905         \prg_return_false:
6906     }
6907 }
6908
6909 \NewDocumentCommand \bidi@AfterAtEndOfClass { s m o +m }
6910 {
6911     \IfBooleanTF { #1 }
6912     {
6913         \bidi_if_class_loaded:nTF { #2 }
6914         { #4 }
6915         { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6916     }
6917     {
6918         \bidi_if_class_loaded:nF

```




```

6919         { #2 }
6920         { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6921     }
6922 }
6923
6924 \NewDocumentCommand \bidi@AfterPackage { s m o +m }
6925 {
6926     \IfBooleanTF { #1 }
6927     {
6928         \@ifpackageloaded{ #2 }
6929         { #4 }
6930         {
6931             \hook_gput_code:nnn
6932             { file / #2.\@pkgextension / after }
6933             { #3 }
6934             { #4 }
6935         }
6936     }
6937     {
6938         \hook_gput_code:nnn { file / #2.\@pkgextension / after } { #3 } { #4 }
6939     }
6940 }
6941
6942 \NewDocumentCommand \bidi@AfterAtEndOfPackage { s m o +m }
6943 {
6944     \IfBooleanTF { #1 }
6945     {
6946         \bidi_if_package_loaded:nTF { #2 }
6947         { #4 }
6948         { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6949     }
6950     {
6951         \bidi_if_package_loaded:nF
6952         { #2 }
6953         { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6954     }
6955 }
6956
6957 \clist_new:N \l__biditools_package_clist
6958 \msg_new:nnn { biditools } { cannot-prevent-for-already-loaded-package }
6959 {
6960     Can-not~prevent~package~`#1'~from~being~loaded,~
6961     since~it~has~been~loaded~already~before~line~\msg_line_number:
6962 }
6963 \clist_new:N \g__biditools_prevent_clist
6964
6965 \NewDocumentCommand \bidi@PreventPackageFromLoading { s +o m }
6966 {
6967     \clist_set:Nx \l__biditools_package_clist { #3 }
6968     \clist_map_inline:Nn \l__biditools_package_clist
6969     {
6970         \@ifpackageloaded { ##1 }
6971         {
6972             \IfBooleanTF { #1 } { \msg_info:nnn } { \msg_warning:nnn }

```



```

6973         { biditools } { cannot-prevent-for-already-loaded-package } { ##1 }
6974     }
6975     {
6976         \clist_if_in:NnF \g__biditools_prevent_clist { ##1 }
6977         { \clist_gput_right:Nn \g__biditools_prevent_clist { ##1 } }
6978         \tl_if_exist:cF { g__biditools_exclude_package_##1_tl }
6979         {
6980             \tl_new:c { g__biditools_exclude_package_##1_tl }
6981         }
6982         \IfValueT { #2 }
6983         {
6984             \tl_gput_right:cn { g__biditools_exclude_package_##1_tl } { #2 }
6985         }
6986         \disable@package@load { ##1 }
6987         { \tl_use:c { g__biditools_exclude_package_##1_tl } }
6988     }
6989 }
6990 \clist_clear:N \l__biditools_package_clist
6991 }
6992
6993 \NewDocumentCommand \bidi@ResetPreventPackageFromLoading {}
6994 {
6995     \clist_map_function:NN \g__biditools_prevent_clist \reenable@package@load
6996     \clist_gclear:N \g__biditools_prevent_clist
6997 }
6998
6999 \NewDocumentCommand \bidi@StorePreventPackageFromLoading { m }
7000 { \edef #1 { \clist_use:Nn \g__biditools_prevent_clist { , } } }
7001
7002 \NewDocumentCommand \bidi@UnPreventPackageFromLoading { s m }
7003 {
7004     \clist_set:Nx \l__biditools_package_clist { #2 }
7005     \clist_map_inline:Nn \l__biditools_package_clist
7006     {
7007         \clist_if_in:NnT \g__biditools_prevent_clist { ##1 }
7008         {
7009             \clist_gremove_all:Nn \g__biditools_prevent_clist { ##1 }
7010             \reenable@package@load { ##1 }
7011             \IfBooleanT { #1 }
7012             { \cs_undefine:c { g__biditools_exclude_package_##1_tl } }
7013         }
7014     }
7015 }
7016
7017 \NewDocumentCommand \bidi@BeforeClosingMainAux { o m }
7018 {
7019     \hook_gput_code:nnn { enddocument / afterlastpage } { #1 }
7020     {
7021         \debug_suspend:
7022         \RenewDocumentCommand \bidi@BeforeClosingMainAux { m } { ##1 }
7023         \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
7024         \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
7025         #2
7026         \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn

```



```

7027         \debug_resume:
7028     }
7029 }
7030
7031 \NewDocumentCommand \bidi@AfterReadingMainAux { o m }
7032 {
7033     \hook_gput_code:nnn { enddocument / afteraux } { #1 }
7034     {
7035         \debug_suspend:
7036         \RenewDocumentCommand \bidi@AfterReadingMainAux { m } { ##1 }
7037         \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
7038         \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
7039         #2
7040         \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn
7041         \debug_resume:
7042     }
7043 }
7044
7045 \clist_new:N \l__biditools_file_patch_clist
7046
7047 \NewDocumentCommand \ApplyPatchToFiles { m O{def} O{bidi} }
7048 {
7049     \clist_set:Nx \l__biditools_file_patch_clist { #1 }
7050     \clist_map_inline:Nn \l__biditools_file_patch_clist
7051     {
7052         \ApplyPatchToFile { ##1 } [ #2 ] [ #3 ]
7053     }
7054     \clist_clear:N \l__biditools_file_patch_clist
7055 }
7056
7057 \clist_new:N \l__biditools_package_patch_clist
7058
7059 \NewDocumentCommand \ApplyPatchToPackages { m O{bidi} }
7060 {
7061     \clist_set:Nx \l__biditools_package_patch_clist { #1 }
7062     \clist_map_inline:Nn \l__biditools_package_patch_clist
7063     {
7064         \ApplyPatchToPackage { ##1 } [ #2 ]
7065     }
7066     \clist_clear:N \l__biditools_package_patch_clist
7067 }
7068
7069 \clist_new:N \l__biditools_class_patch_clist
7070
7071 \NewDocumentCommand \ApplyPatchToClasses { m O{bidi} }
7072 {
7073     \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7074     \clist_map_inline:Nn \l__biditools_class_patch_clist
7075     {
7076         \ApplyPatchToClass { ##1 } [ #2 ]
7077     }
7078     \clist_clear:N \l__biditools_class_patch_clist
7079 }
7080

```



```

7081 \NewDocumentCommand \ApplyPatchToClassesIfPackageLoadedF { m m O{bidi} }
7082 {
7083   \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7084   \clist_map_inline:Nn \l__biditools_class_patch_clist
7085     {
7086       \ApplyPatchToClassIfPackageLoadedF { ##1 } { #2 } [ #3 ]
7087     }
7088   \clist_clear:N \l__biditools_class_patch_clist
7089 }
7090 \ExplSyntaxOff
7091
7092 \newcommand*{\bidi@ReplaceInput}{\declare@file@substitution}
7093 \newcommand*{\bidi@UnReplaceInput}
7094 {\undeclare@file@substitution}
7095 \newcommand*{\bidi@ReplacePackage}[2]{%
7096   \declare@file@substitution{#1.\@pkgextension}{#2.\@pkgextension}%
7097 }
7098 \newcommand*{\bidi@UnReplacePackage}[1]{%
7099   \undeclare@file@substitution{#1.\@pkgextension}%
7100 }
7101 \newcommand*{\bidi@ReplaceClass}[2]{%
7102   \declare@file@substitution{#1.\@clsextension}{#2.\@clsextension}%
7103 }
7104 \newcommand*{\bidi@UnReplaceClass}[1]{%
7105   \undeclare@file@substitution{#1.\@clsextension}%
7106 }
7107 \newcommand*{\bidi@BeforeFile}[1]{%
7108   \AddToHook{file/#1/before}%
7109 }
7110 \newcommand*{\bidi@AfterFile}[1]{%
7111   \AddToHook{file/#1/after}%
7112 }
7113 \newcommand*{\bidi@BeforeClass}[1]{%
7114   \bidi@BeforeFile{#1.\@clsextension}%
7115 }
7116 \newcommand*{\bidi@BeforePackage}[1]{%
7117   \bidi@BeforeFile{#1.\@pkgextension}%
7118 }
7119
7120 \long\def\bidi@protected@immediate@write#1#2#3{%
7121   \begingroup
7122     #2%
7123     \let\protect\@unexpandable@protect
7124     \edef\reserved@a{\immediate\write#1{#3}}%
7125     \reserved@a
7126   \endgroup
7127   \if@nobreak\ifvmode\nobreak\fi\fi
7128 }
7129
7130 \def\bidi@patch@AfterPackage#1{%
7131   \@ifpackageloaded{#1}{%
7132     \@firstofone
7133   }{%
7134     \AddToHook{package/#1/after}%

```



```

7135 }%
7136 }
7137
7138 \def\bidipatch@AfterFile#1{%
7139   \IfFileLoadedTF{#1}{%
7140     \@firstofone
7141   }{%
7142     \AddToHook{file/#1/after}%
7143   }%
7144 }
7145
7146 \NewDocumentCommand \ApplyPatchToFile { m O{def} O{bidi} }
7147 {
7148   \bidipatch@AfterFile{#1.#2}{%
7149     \ifnum\catcode`\@=11
7150       \input{#1-xetex-#3.def}%
7151     \else
7152       \bidi@storecatcode\@
7153       \makeatletter
7154       \input{#1-xetex-#3.def}%
7155       \bidi@restorecatcode\@
7156     \fi
7157   }%
7158 }
7159
7160 \NewDocumentCommand \ApplyPatchCodeToFile { m +m O{def} }
7161 {
7162   \bidipatch@AfterFile{#1.#3}{#2}%
7163 }
7164
7165 \NewDocumentCommand \ApplyPatchToFilesIfPackageLoadedF { m m O{def} O{bidi} }
7166 {
7167   \AddToHook{begindocument/before}{%
7168     \IfPackageLoadedF{#1}{%
7169       \ApplyPatchToFiles{#2}[#3][#4]%
7170     }%
7171   }
7172 }
7173
7174 \NewDocumentCommand \ApplyPatchToClassIfPackageLoadedF { m m O{bidi} }
7175 {
7176   \AddToHook{begindocument/before}{%
7177     \IfPackageLoadedF{#2}{%
7178       \ifnum\catcode`\@=11
7179         \@ifclassloaded{#1}{%
7180           \input{#1-xetex-#3.def}%
7181         }{}%
7182       \else
7183         \bidi@storecatcode\@
7184         \makeatletter
7185         \@ifclassloaded{#1}{%
7186           \input{#1-xetex-#3.def}%
7187         }{}%
7188         \bidi@restorecatcode\@

```



```

7189         \fi
7190     }%
7191 }
7192 }
7193
7194 \NewDocumentCommand \ApplyPatchToPackageIfPackageLoadedF { m m O{bidi} }
7195 {
7196     \AddToHook{begindocument/before}{%
7197         \IfPackageLoadedF{#2}{%
7198             \IfPackageLoadedT{#1}{%
7199                 \ifnum\catcode`\@=11
7200                     \input{#1-xetex-#3.def}%
7201                 \else
7202                     \bidi@storecatcode\@
7203                     \makeatletter
7204                     \input{#1-xetex-#3.def}%
7205                     \bidi@restorecatcode\@
7206                 \fi
7207             }%
7208         }%
7209     }
7210 }
7211
7212 \NewDocumentCommand \ApplyPatchIfPackageLoaded { m +m +m }
7213 {
7214     \AddToHook{begindocument/before}{%
7215         \ifnum\catcode`\@=11
7216             \@ifpackageloaded{#1}{#2}{#3}%
7217         \else
7218             \bidi@storecatcode\@
7219             \makeatletter
7220             \@ifpackageloaded{#1}{#2}{#3}%
7221             \bidi@restorecatcode\@
7222         \fi
7223     }
7224 }
7225
7226 \NewDocumentCommand \ApplyPatchIfPackageLoadedT { m +m }
7227 {
7228     \ApplyPatchIfPackageLoaded{#1}{#2}{}%
7229 }
7230
7231 \NewDocumentCommand \ApplyPatchIfPackageLoadedF { m +m }
7232 {
7233     \ApplyPatchIfPackageLoaded{#1}{}{#2}%
7234 }
7235
7236 \NewDocumentCommand \ApplyPatchToPackage { m O{bidi} }
7237 {
7238     \bidi@patch@AfterPackage{#1}{\input{#1-xetex-#2.def}}%
7239 }
7240
7241 \NewDocumentCommand \ApplyPatchCodeToPackage { m +m }
7242 {

```



```

7243 \bidi@patch@AfterPackage{#1}{#2}%
7244 }
7245
7246 \NewDocumentCommand \ApplyPatchToClass { m O{bidi} }
7247 {
7248 \ifclassloaded{#1}{\input{#1-xetex-#2.def}}{}%
7249 }

```

53 File `bidituftefloat.sty`

```

7250 \NeedsTeXFormat{LaTeX2e}
7251 \ProvidesPackage{bidituftefloat}[2025/01/03 v0.3
7252 bidi implementation of tufte float]
7253 \RequirePackage{xifthen}
7254 \newcommand{\@bidituftefloat@pkgname}{bidituftefloat}
7255 \newcommand{\bidituftefloatError}[2]{\PackageError{\@bidituftefloat@pkgname}{#1}{#2}}
7256 \newcommand{\bidituftefloatDebugInfoNL}[1]{\ifthenelse{\boolean{\@bidituftefloat@debug}}{\bid
7257 \newcommand{\bidituftefloatInfoNL}[1]{\PackageInfo{\@bidituftefloat@pkgname}{#1@gobble}}
7258 \newboolean{\@bidituftefloat@reversegeometry}
7259 \setboolean{\@bidituftefloat@reversegeometry}{false}
7260 \DeclareOption{reversegeometry}{\setboolean{\@bidituftefloat@reversegeometry}{true}}
7261 \newboolean{\@bidituftefloat@a4paper}
7262 \DeclareOption{a4paper}{\setboolean{\@bidituftefloat@a4paper}{true}}
7263 \newboolean{\@bidituftefloat@b5paper}
7264 \DeclareOption{b5paper}{\setboolean{\@bidituftefloat@b5paper}{true}}
7265 \newboolean{\@bidituftefloat@symmetric}
7266 \newboolean{\@bidituftefloat@twoside}
7267 \DeclareOption{twoside}{%
7268 \@twoside true \mparswitch true%
7269 \setboolean{\@bidituftefloat@twoside}{true}%
7270 \setboolean{\@bidituftefloat@symmetric}{true}%
7271 }
7272 \DeclareOption{oneside}{%
7273 \@twoside false \mparswitch false%
7274 \setboolean{\@bidituftefloat@twoside}{false}%
7275 \setboolean{\@bidituftefloat@symmetric}{false}%
7276 }
7277 \IfClassLoadedT{book}{\ExecuteOptions{twoside}}
7278 \newboolean{\@bidituftefloat@debug}
7279 \newcommand*{\@bidituftefloat@caption@justification}{\@bidituftefloat@justification@autodete
7280 \ProcessOptions
7281 %% Globally sets the length
7282 \newcommand*{\gsetlength}[2]{%
7283 \setlength{#1}{#2}%
7284 \global#1=#1\relax%
7285 }
7286
7287 %% Set the font sizes and baselines to match bidituftefloat's books
7288 \renewcommand\normalsize{%
7289 \setfontsize\normalsize\@xpt{14}%
7290 \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@
7291 \abovedisplayshortskip \z@ \@plus3\p@
7292 \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@
7293 \belowdisplayskip \abovedisplayskip

```



```

7294 \let\@listi\@listI}
7295 \normalbaselineskip=14pt
7296 \normalsize
7297 \renewcommand\footnotesize{%
7298 \setfontsize\footnotesize\@viipt{10}%
7299 \abovedisplayskip 6\p@ \@plus2\p@ \@minus4\p@
7300 \abovedisplayshortskip \z@ \@plus\p@
7301 \belowdisplayshortskip 3\p@ \@plus\p@ \@minus2\p@
7302 \def\@listi{\leftmargin\leftmarginI
7303 \topsep 3\p@ \@plus\p@ \@minus\p@
7304 \parsep 2\p@ \@plus\p@ \@minus\p@
7305 \itemsep \parsep}%
7306 \belowdisplayskip \abovedisplayskip
7307 }
7308 %% Paragraph indentation and separation for marginal text
7309 \newcommand{\@bituftefloat@margin@par}{%
7310 \setlength{\RaggedRightParindent}{0.5pc}%
7311 \setlength{\JustifyingParindent}{0.5pc}%
7312 \setlength{\parindent}{0.5pc}%
7313 \setlength{\parskip}{0pt}%
7314 }
7315 \RequirePackage{ragged2e}
7316 \ifthenelse{\boolean{@bituftefloat@reversegeometry}}{%
7317 \RequirePackage[letterpaper,right=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpar
7318 \ifthenelse{\boolean{@bituftefloat@a4paper}}
7319 {\geometry{a4paper,right=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpa
7320 {}
7321 \ifthenelse{\boolean{@bituftefloat@bfivepaper}}
7322 {\geometry{paperwidth=176mm,paperheight=250mm,right=14.66mm,top=13.88mm,textwidth=102.66mm
7323 {}}%
7324 \RequirePackage[letterpaper,left=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpar
7325 \ifthenelse{\boolean{@bituftefloat@a4paper}}
7326 {\geometry{a4paper,left=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpar
7327 {}
7328 \ifthenelse{\boolean{@bituftefloat@bfivepaper}}
7329 {\geometry{paperwidth=176mm,paperheight=250mm,left=14.66mm,top=13.88mm,textwidth=102.66mm,
7330 {}
7331 \ifthenelse{\boolean{@bituftefloat@symmetric}}
7332 {}
7333 {\geometry{asymmetric}}}% forces internal LaTeX `twoside'
7334 \setlength\marginparpush{10pt}
7335 %% Font for margin items
7336 \newcommand{\@bituftefloat@marginfont}{\normalfont\footnotesize}
7337 \newcommand*{\@bituftefloat@captionfont}{\@bituftefloat@marginfont}
7338 \newcommand*{\setcaptionfont}[1]{\renewcommand*{\@bituftefloat@captionfont}{#1}}
7339 \newcommand{\@bituftefloat@justification}{\justifying}%
7340 \setlength\abovedisplayskip{6pt plus 2pt minus 4pt}
7341 \setlength\belowdisplayskip{6pt plus 2pt minus 4pt}
7342 \newboolean{@bituftefloat@changepage}
7343 \IfFileExists{changepage.sty}{%
7344 \bituftefloatDebugInfoNL{Found changepage.sty}
7345 \RequirePackage[strict]{changepage}
7346 \setboolean{@bituftefloat@changepage}{true}
7347 }{%

```




```

7348 \biditytfloatDebugInfoNL{Found chngpage.sty}
7349 \RequirePackage[strict]{chngpage}
7350 \setboolean{@biditytfloat@changepage}{false}
7351 }
7352 \newboolean{@biditytfloat@odd@page}
7353 \setboolean{@biditytfloat@odd@page}{true}
7354 \newcommand*{\@biditytfloat@checkoddpage}{%
7355 \checkoddpage%
7356 \ifthenelse{\boolean{@biditytfloat@changepage}}{%
7357 \ifoddpage%
7358 \setboolean{@biditytfloat@odd@page}{true}%
7359 \else%
7360 \setboolean{@biditytfloat@odd@page}{false}%
7361 \fi%
7362 }{%
7363 \ifcpoddpage%
7364 \setboolean{@biditytfloat@odd@page}{true}%
7365 \else%
7366 \setboolean{@biditytfloat@odd@page}{false}%
7367 \fi%
7368 }%
7369 }
7370 \newlength{\@biditytfloat@overhang}% used by the fullwidth environment and the running head
7371 \newlength{\@biditytfloat@fullwidth}
7372 \newlength{\@biditytfloat@caption@fill}
7373 \newcommand{\biditytfloatRecalculate}{%
7374 \setlength{\@biditytfloat@overhang}{\marginparwidth}
7375 \addtolength{\@biditytfloat@overhang}{\marginparsep}
7376
7377 \setlength{\@biditytfloat@fullwidth}{\textwidth}
7378 \addtolength{\@biditytfloat@fullwidth}{\marginparsep}
7379 \addtolength{\@biditytfloat@fullwidth}{\marginparwidth}
7380
7381 \setlength{\@biditytfloat@caption@fill}{\textwidth}
7382 \addtolength{\@biditytfloat@caption@fill}{\marginparsep}
7383 }
7384 \AtBeginDocument{\biditytfloatRecalculate}
7385 \RequirePackage{optparams}% provides multiple optional arguments for commands
7386 \RequirePackage{placeins}
7387 \newsavebox{\@biditytfloat@margin@floatbox}
7388 \newenvironment{@biditytfloat@margin@float}[2][-1.2ex]%
7389 {\FloatBarrier% process all floats before this point so the figure/table numbers stay in o
7390 \begin{lrbox}{\@biditytfloat@margin@floatbox}%
7391 \begin{minipage}{\marginparwidth}%
7392 \@biditytfloat@caption@font%
7393 \def\@captive{#2}%
7394 \hbox{\vspace*{#1}%
7395 \@biditytfloat@caption@justification%
7396 \@biditytfloat@margin@par%
7397 \noindent%
7398 }
7399 {\end{minipage}%
7400 \end{lrbox}%
7401 \marginpar{\usebox{\@biditytfloat@margin@floatbox}}%

```



```

7402 }
7403 \newenvironment{marginfigure}[1][1.2ex]%
7404   {\begin{@biditytfloat@margin@float}[#1]{figure}}
7405   {\end{@biditytfloat@margin@float}}
7406 \newenvironment{margintable}[1][1.2ex]%
7407   {\begin{@biditytfloat@margin@float}[#1]{table}}
7408   {\end{@biditytfloat@margin@float}}
7409 \newcommand*{\@biditytfloat@justification@autodetect}{\justifying}%
7410
7411 \newcommand{\@biditytfloat@float@debug@info}{}% contains debug info generated as the float
7412 \newcommand{\@biditytfloat@float@debug}[1]{% adds debug info to the queue for output
7413   \ifthenelse{\equal{\@biditytfloat@float@debug@info}{}}%
7414     {\def\@biditytfloat@float@debug@info{#1}}%
7415     {\g@addto@macro\@biditytfloat@float@debug@info{\MessageBreak#1}}%
7416 }
7417 \newcommand{\floatalignment}{x}% holds the current float alignment (t, b, h, p)
7418 \newcommand{\setfloatalignment}[1]{\global\def\floatalignment{#1}\@biditytfloat@float@debug
7419 \newboolean{@biditytfloat@float@recto}
7420 \newcommand{\forcerectofloat}{\GlobalSetBoolean{@biditytfloat@float@recto}{true}\@bidityt
7421 \newcommand{\forceversofloat}{\GlobalSetBoolean{@biditytfloat@float@recto}{false}\@bidityt
7422 \newsavebox{\@biditytfloat@figure@box}
7423 \newsavebox{\@biditytfloat@caption@box}
7424 \let\@biditytfloat@orig@float\@float
7425 \let\@biditytfloat@orig@endfloat\endfloat
7426 \newlength{\@biditytfloat@caption@vertical@offset}
7427 \setlength{\@biditytfloat@caption@vertical@offset}{0pt}
7428 \newcommand{\@biditytfloat@stored@shortcaption}{}
7429 \newcommand{\@biditytfloat@stored@caption}{}
7430 \newcommand{\@biditytfloat@stored@label}{}
7431 \long\def\@biditytfloat@caption[#1][#2]#3{%
7432   \ifthenelse{\isempty{#1}}%
7433     {\gdef\@biditytfloat@stored@shortcaption{#3}}%
7434     {\gdef\@biditytfloat@stored@shortcaption{#1}}%
7435   \gsetlength{\@biditytfloat@caption@vertical@offset}{-#2}% we want a positive offset to 1
7436   \gdef\@biditytfloat@stored@caption{#3}%
7437 }
7438 \newcommand{\@biditytfloat@label}[1]{%
7439   \gdef\@biditytfloat@stored@label{#1}%
7440 }
7441 \newcommand{\@biditytfloat@fps}{}
7442 \newboolean{@biditytfloat@float@star}
7443 \newlength{\@biditytfloat@float@contents@width}
7444 \newenvironment{@biditytfloat@float}[3][htbp]%
7445   {% begin @biditytfloat@float
7446     % Should this float be full-width or just text-width?
7447     \ifthenelse{\equal{#3}{star}}%
7448       {\GlobalSetBoolean{@biditytfloat@float@star}{true}}%
7449       {\GlobalSetBoolean{@biditytfloat@float@star}{false}}%
7450     % Check page side (recto/verso) and store detected value -- can be overridden in environm
7451     \@biditytfloat@checkoddpage%
7452     \ifthenelse{\boolean{@biditytfloat@odd@page}}%
7453       {\GlobalSetBoolean{@biditytfloat@float@recto}{true}\@biditytfloat@float@debug{Dete
7454       {\GlobalSetBoolean{@biditytfloat@float@recto}{false}\@biditytfloat@float@debug{Det
7455     % If the float placement specifier is 'b' and only 'b', then bottom-align the mini-pages

```



```

7456 \renewcommand{\@biditytfloat@fps}{#1}%
7457 \@biditytfloat@float@debug{Allowed positions: [#1]}%
7458 \ifthenelse{\equal{#1}{b}\OR\equal{#1}{B}}%
7459 {\renewcommand{\floatalignment}{b}\@biditytfloat@float@debug{Presumed position: [bot
7460 {\renewcommand{\floatalignment}{t}\@biditytfloat@float@debug{Presumed position: [top
7461 % Capture the contents of the \caption and \label commands to use later
7462 \global\let\@biditytfloat@orig@caption\caption%
7463 \global\let\@biditytfloat@orig@label\label%
7464 \renewcommand{\caption}{\optparams{\@biditytfloat@caption}{[] [Opt]}}%
7465 \renewcommand{\label}[1]{\@biditytfloat@label{##1}}%
7466 % Handle subfigure package compatibility
7467 \ifthenelse{\boolean{@biditytfloat@packages@subfigure}}{%
7468 \bidi@patchcmd{\subfigure}{%
7469 \let\subfig@oldlabel=\label
7470 }{%
7471 \let\subfig@oldlabel=\@biditytfloat@orig@label
7472 }
7473 {}
7474 {}
7475 \let\subtable=\subfigure
7476 }{}% subfigure package is not loaded
7477 \@biditytfloat@orig@float{#2}[#1]%
7478 \ifthenelse{\boolean{@biditytfloat@float@star}}%
7479 {\setlength{\@biditytfloat@float@contents@width}{\@biditytfloat@fullwidth}}%
7480 {\setlength{\@biditytfloat@float@contents@width}{\textwidth}}%
7481 \begin{lrbox}{\@biditytfloat@figure@box}%
7482 \begin{minipage}[\floatalignment]{\@biditytfloat@float@contents@width}\hbox{}%
7483 }{}% end @biditytfloat@float
7484 \par\hbox{}\vspace{-\baselineskip}\ifthenelse{\prevdepth>0}{\vspace{-\prevdepth}}{}% a
7485 \end{minipage}%
7486 \end{lrbox}%
7487 % build the caption box
7488 \begin{lrbox}{\@biditytfloat@caption@box}%
7489 \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{}%
7490 \ifthenelse{\NOT\equal{\@biditytfloat@stored@caption}{}}{\@biditytfloat@orig@cap
7491 \ifthenelse{\NOT\equal{\@biditytfloat@stored@label}{}}{\@biditytfloat@orig@label
7492 \par\vspace{-\prevdepth}}% TODO: DOUBLE-CHECK FOR SAFETY
7493 \end{minipage}%
7494 \end{lrbox}%
7495 % now typeset the stored boxes
7496 \begin{fullwidth}%
7497 \begin{minipage}[\floatalignment]{\linewidth}%
7498 \ifthenelse{\boolean{@biditytfloat@float@star}}%
7499 {\@biditytfloat@float@fullwidth[\@biditytfloat@caption@vertical@offset]{\@bidi
7500 {\@biditytfloat@float@textwidth[\@biditytfloat@caption@vertical@offset]{\@bidi
7501 \end{minipage}%
7502 \end{fullwidth}%
7503 \@biditytfloat@orig@endfloat% end original LaTeX float environment
7504 % output debug info
7505 \ifthenelse{\boolean{@biditytfloat@debug}}{%
7506 \typeout{^^J^^J----- biditytfloat package float information -----}%
7507 \ifthenelse{\equal{\@biditytfloat@stored@label}{}}%
7508 {\typeout{Warning: Float unlabeled!}}%
7509 {\typeout{Float label: [\@biditytfloat@stored@label]}}%

```



```

7510 \typeout{Page number: [\thepage]}%
7511 \def\MessageBreak{^^J}%
7512 \typeout{\@biditytfloat@float@debug@info}%
7513 \ifthenelse{\boolean{@biditytfloat@symmetric}}%
7514     {\typeout{Symmetric: [true]}}%
7515     {\typeout{Symmetric: [false]}}%
7516 \typeout{-----^^J^^J}%
7517 }{}%
7518 % reset commands and temp boxes and captions
7519 \gdef\@biditytfloat@float@debug@info{}%
7520 \let\caption\@biditytfloat@orig@caption%
7521 \let\label\@biditytfloat@orig@label%
7522 \begin{lrbox}{\@biditytfloat@figure@box}\hbox{}\end{lrbox}%
7523 \begin{lrbox}{\@biditytfloat@caption@box}\hbox{}\end{lrbox}%
7524 \gdef\@biditytfloat@stored@shortcaption{}%
7525 \gdef\@biditytfloat@stored@caption{}%
7526 \gdef\@biditytfloat@stored@label{}%
7527 \gsetlength{\@biditytfloat@caption@vertical@offset}{0pt}% reset caption offset
7528 }
7529 \newcommand{\@biditytfloat@float@textwidth}[3][Opt]{%
7530 \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}\OR\boolean{@biditytfloat@float@recto}
7531 % asymmetric or page is odd, so caption is on the right
7532 \hbox{%
7533     \usebox{#2}%
7534     \hspace{\marginparsep}%
7535     \smash{\raisebox{#1}{\usebox{#3}}}%
7536 }
7537 \@biditytfloat@float@debug{Caption position: [right]}%
7538 }{% symmetric pages and page is even, so caption is on the left
7539 \hbox{%
7540     \smash{\raisebox{#1}{\usebox{#3}}}%
7541     \hspace{\marginparsep}%
7542     \usebox{#2}%
7543 }
7544 \@biditytfloat@float@debug{Caption position: [left]}%
7545 }%
7546 }
7547 \newcommand{\@biditytfloat@float@fullwidth}[3][Opt]{%
7548 \ifthenelse{\equal{\floatalignment}{b}}%
7549     {% place caption above figure
7550     \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}\OR\boolean{@biditytfloat@float@recto}
7551     {\hfill\smash{\raisebox{#1}{\usebox{#3}}}\par\usebox{#2}\@biditytfloat@float@debug
7552     {\smash{\raisebox{#1}{\usebox{#3}}}\hfill\par\usebox{#2}\@biditytfloat@float@debug
7553     }{% place caption below figure
7554     \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}\OR\boolean{@biditytfloat@float@recto}
7555     {\usebox{#2}\par\hfill\smash{\raisebox{#1}{\usebox{#3}}}\@biditytfloat@float@debug
7556     {\usebox{#2}\par\smash{\raisebox{#1}{\usebox{#3}}}\hfill\@biditytfloat@float@debug
7557     }%
7558 }
7559 \renewenvironment{figure}[1][htbp]%
7560     {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}}{}
7561     {\end{@biditytfloat@float}}
7562 \renewenvironment{table}[1][htbp]
7563     {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}}{}

```



```

7564 {\end{@biditytfloat@float}}
7565 \renewenvironment{figure*}[1][htbp]%
7566 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}{star}}
7567 {\end{@biditytfloat@float}}
7568 \renewenvironment{table*}[1][htbp]%
7569 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}{star}}
7570 {\end{@biditytfloat@float}}
7571 \newenvironment{fullwidth}
7572 {\ifthenelse{\boolean{@biditytfloat@symmetric}}%
7573 {\ifthenelse{\boolean{@biditytfloat@change page}}{\begin{adjustwidth*}{- \@biditytfloat@overhang}}%
7574 {\begin{adjustwidth*}{- \@biditytfloat@overhang}}}%
7575 }%
7576 {\ifthenelse{\boolean{@biditytfloat@symmetric}}%
7577 {\ifthenelse{\boolean{@biditytfloat@change page}}{\end{adjustwidth*}}{\end{adjustwidth*}}}%
7578 {\end{adjustwidth*}}}%
7579 }
7580 \long\def\@caption#1[#2]#3{%
7581 \par%
7582 \addcontentsline{csname ext@#1\endcsname}{#1}%
7583 {\protect\numberline{csname the#1\endcsname}{\ignorespaces #2}}%
7584 \begingroup%
7585 \@parboxrestore%
7586 \if@minipage%
7587 \@setminipage%
7588 \fi%
7589 \@biditytfloat@caption@font\@biditytfloat@caption@justification%
7590 \noindent\csname fnum@#1\endcsname: \ignorespaces#3\par%
7591 %\@makecaption{csname fnum@#1\endcsname}{\ignorespaces #3}\par
7592 \endgroup}
7593 %%
7594 % Turns newlines into spaces. Based on code from the 'titlesec' package.
7595 \DeclareRobustCommand{\@biditytfloat@newlinetospace}{%
7596 \@ifstar{\@biditytfloat@newlinetospace@i}{\@biditytfloat@newlinetospace@i}%
7597 }
7598 \def\@biditytfloat@newlinetospace@i{%
7599 \ifdim\lastskip>\z@ \else\space\fi
7600 \ignorespaces%
7601 }
7602 \DeclareRobustCommand{\newlinetospace}[1]{%
7603 \let\@biditytfloat@orig@cr\% save the original meaning of \
7604 \def\@biditytfloat@newlinetospace{% turn \ and \* into \space
7605 \let\newline\% turn \newline into \space
7606 #1%
7607 \let\@biditytfloat@orig@cr\% revert to original meaning of \
7608 }
7609 \RequirePackage{fancyhdr}
7610 \pagestyle{fancy}
7611 \AtBeginDocument{%
7612 \ifthenelse{\boolean{@biditytfloat@symmetric}}
7613 {\fancyhoffset[LE,RO]{\@biditytfloat@overhang}}
7614 {\fancyhoffset[RE,RO]{\@biditytfloat@overhang}}
7615 }
7616 % The running heads/feet don't have rules
7617 \renewcommand{\headrulewidth}{0pt}

```



```

7618 \renewcommand{\footrulewidth}{0pt}
7619 % The 'fancy' page style is the default style for all pages.
7620 \fancyhf{} % clear header and footer fields
7621     \ifthenelse{\boolean{@biditytfloat@symmetric}}{
7622         {\fancyhead[LE]{\thepage\quad\textsl{\newlinetospace{\plainauthor}}}%
7623         \fancyhead[RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7624         {\fancyhead[RE,RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7625 % The 'plain' page style is used on chapter opening pages.
7626 % In Tufte's /Beautiful Evidence/ he never puts page numbers at the
7627 % bottom of pages -- the folios are unexpressed.
7628 \fancypagestyle{plain}{
7629     \fancyhf{} % clear header and footer fields
7630     % Uncomment the following five lines of code if you want the opening page
7631     % of the chapter to express the folio in the lower outside corner.
7632     % \ifthenelse{\boolean{@biditytfloat@symmetric}}{
7633     %     {\fancyfoot[LE,RO]{\thepage}}
7634     %     {\fancyfoot[RE,RO]{\thepage}}
7635 }
7636 % The 'empty' page style suppresses all headers and footers.
7637 % It's used on title pages and 'intentionally blank' pages.
7638 \fancypagestyle{empty}{
7639     \fancyhf{} % clear header and footer fields
7640 }
7641 \def\morefloats{% provides a total of 52 floats
7642     \ifthenelse{\isundefined{\bx@S}}{%
7643         \biditytfloatDebugInfoNL{Adding 34 more float slots.}
7644         \newinsert\bx@S
7645         \newinsert\bx@T
7646         \newinsert\bx@U
7647         \newinsert\bx@V
7648         \newinsert\bx@W
7649         \newinsert\bx@X
7650         \newinsert\bx@Y
7651         \newinsert\bx@Z
7652         \newinsert\bx@a
7653         \newinsert\bx@b
7654         \newinsert\bx@c
7655         \newinsert\bx@d
7656         \newinsert\bx@e
7657         \newinsert\bx@f
7658         \newinsert\bx@g
7659         \newinsert\bx@h
7660         \newinsert\bx@i
7661         \newinsert\bx@j
7662         \newinsert\bx@k
7663         \newinsert\bx@l
7664         \newinsert\bx@m
7665         \newinsert\bx@n
7666         \newinsert\bx@o
7667         \newinsert\bx@p
7668         \newinsert\bx@q
7669         \newinsert\bx@r
7670         \newinsert\bx@s
7671         \newinsert\bx@t

```



```

7672 \newinsert\bx@u
7673 \newinsert\bx@v
7674 \newinsert\bx@w
7675 \newinsert\bx@x
7676 \newinsert\bx@y
7677 \newinsert\bx@z
7678 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7679 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7680 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7681 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7682 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7683 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7684 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7685 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7686 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7687 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7688 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7689 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z}%
7690 }{% we've already added another 34 floats, so we'll add 26 more, but that's it!
7691 \ifthenelse{\isundefined{\bx@AA}}{%
7692 \bidituftefloatDebugInfoNL{Adding 26 more float slots.}
7693 \newinsert\bx@AA
7694 \newinsert\bx@BB
7695 \newinsert\bx@CC
7696 \newinsert\bx@DD
7697 \newinsert\bx@EE
7698 \newinsert\bx@FF
7699 \newinsert\bx@GG
7700 \newinsert\bx@HH
7701 \newinsert\bx@II
7702 \newinsert\bx@JJ
7703 \newinsert\bx@KK
7704 \newinsert\bx@LL
7705 \newinsert\bx@MM
7706 \newinsert\bx@NN
7707 \newinsert\bx@OO
7708 \newinsert\bx@PP
7709 \newinsert\bx@QQ
7710 \newinsert\bx@RR
7711 \newinsert\bx@SS
7712 \newinsert\bx@TT
7713 \newinsert\bx@UU
7714 \newinsert\bx@VV
7715 \newinsert\bx@WW
7716 \newinsert\bx@XX
7717 \newinsert\bx@YY
7718 \newinsert\bx@ZZ
7719 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7720 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7721 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7722 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7723 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7724 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7725 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e

```



```

7726 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7727 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7728 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7729 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7730 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z
7731 \@elt\bx@AA\@elt\bx@BB\@elt\bx@CC\@elt\bx@DD\@elt\bx@EE
7732 \@elt\bx@FF\@elt\bx@GG\@elt\bx@HH\@elt\bx@II\@elt\bx@JJ
7733 \@elt\bx@KK\@elt\bx@LL\@elt\bx@MM\@elt\bx@NN
7734 \@elt\bx@OO\@elt\bx@PP\@elt\bx@QQ\@elt\bx@RR
7735 \@elt\bx@SS\@elt\bx@TT\@elt\bx@UU\@elt\bx@VV
7736 \@elt\bx@WW\@elt\bx@XX\@elt\bx@YY\@elt\bx@ZZ}%
7737 }{%
7738 \biditytfloatError{You may only call \string\morefloats\space twice. See the\Message
7739 {There are already 78 float slots allocated. Try using \string\FloatBarrier\space on
7740 }%
7741 }%
7742 }
7743 \newboolean{@biditytfloat@packages@subfigure}
7744 \setboolean{@biditytfloat@packages@subfigure}{false}
7745 \AtBeginDocument{%
7746 \@ifpackageloaded{subfigure}
7747 {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{true}}
7748 {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{false}}%
7749 }
7750 \AtBeginDocument{%
7751 \@ifpackageloaded{float}%
7752 % Save the redefined float environment (instead of the LaTeX float environment)
7753 \let\@biditytfloat@orig@float\@float
7754 \let\@biditytfloat@orig@endfloat\endfloat
7755
7756 % Define Tuftian float styles (with the caption in the margin)
7757 \newcommand{\floatc@biditytfloatplain}[2]{%
7758 \begin{lrbox}{\@biditytfloat@caption@box}%
7759 \begin{minipage}{\floatalignment}{\marginparwidth}\hbox{%
7760 \@biditytfloat@caption@font{\@fs@cfont #1:} #2\par%
7761 \end{minipage}%
7762 \end{lrbox}%
7763 \smash{\hspace{\@biditytfloat@caption@fill}}\usebox{\@biditytfloat@caption@box}}%
7764 }
7765 \newcommand{\fs@biditytfloatplain}{%
7766 \def\@fs@cfont{\@biditytfloat@caption@font}%
7767 \let\@fs@capt\floatc@biditytfloatplain%
7768 \def\@fs@pre{}%
7769 \def\@fs@post{}%
7770 \def\@fs@mid{}%
7771 \let\@fs@iftopcapt\iftrue%
7772 }
7773 \let\fs@biditytfloatplaintop=\fs@biditytfloatplain
7774 \let\floatc@biditytfloatplaintop=\floatc@biditytfloatplain
7775 \newcommand\floatc@biditytfloatruled[2]{%
7776 {\@fs@cfont #1} #2\par%
7777 }
7778 \newcommand\fs@biditytfloatruled{%
7779 \def\@fs@cfont{\@biditytfloat@caption@font}%

```




```

7780 \let\@fs@capt\floatc@biditytfloatplain%
7781 \def\@fs@pre{\hrule height.8pt depth0pt width\textwidth \kern2pt}%
7782 \def\@fs@post{\kern2pt\hrule width\textwidth\relax}%
7783 \def\@fs@mid{}%
7784 \let\@fs@iftopcapt\iftrue%
7785 }
7786 \newcommand\fs@biditytfloatboxed{%
7787 \def\@fs@cfont{}%
7788 \let\@fs@capt\floatc@biditytfloatplain%
7789 \def\@fs@pre{%
7790 \setbox\@currbox\vbox{\hbadness10000
7791 \moveleft3.4pt\vbox{\advance\hsize by6.8pt
7792 \hrule \hbox to\hsize{\vrule\kern3pt
7793 \vbox{\kern3pt\box\@currbox\kern3pt}\kern3pt\vrule}\hrule}}
7794 }%
7795 \def\@fs@mid{\kern2pt}%
7796 \def\@fs@post{}%
7797 \let\@fs@iftopcapt\iftrue%
7798 }
7799 }{%
7800 % Nothing to do
7801 }
7802 }
7803 \AtBeginDocument{%
7804 \@ifpackageloaded{algorithm}{%
7805 % Set the float style to the Tuftean version
7806 \ifthenelse{\equal{\ALG@floatstyle}{plain}}{\OR\equal{\ALG@floatstyle}{ruled}}{\OR\equal{\ALG@floatstyle}{ALG}}{\ALG}
7807 \biditytfloatInfoNL{Switching algorithm float style from \ALG@floatstyle\MessageBreak to \ALG@floatstyle}%
7808 \floatstyle{biditytfloat\ALG@floatstyle}%
7809 \restylefloat{algorithm}%
7810 }{}%
7811 }{%
7812 % Nothing to do
7813 }
7814 }
7815 \PassOptionsToPackage{caption=false}{subfig}

```

54 File biditytfloatsidenote.sty

```

7816 \NeedsTeXFormat{LaTeX2e}
7817 \ProvidesPackage{biditytfloatsidenote}[2017/08/09 v0.4
7818 bidi implementation of tufte sidenote]
7819 \RequirePackage{xifthen}
7820 \RequirePackage{ragged2e}
7821 \RequirePackage{setspace}
7822 \RequirePackage{biditytools}
7823 \def\biditytfloatsidenotemarginpar{%
7824 \ifhmode
7825 \@bsphack
7826 \@floatpenalty -\@Mii
7827 \else
7828 \@floatpenalty -\@Miii
7829 \fi
7830 \ifinner

```



```

7831 \@parmoderr
7832 \@floatpenalty\z@
7833 \else
7834 \@next\@currbox\@freelist{}\{}%
7835 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7836 {\@floatpenalty\z@
7837 \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7838 \fi
7839 \ifnextchar [\@bidityftesidenotexmpar\@bidityftesidenoteympar}
7840 \long\def\@bidityftesidenotexmpar[#1]#2{%
7841 \@bidityftesidenotesavemarbox\@marbox{#1}%
7842 \@bidityftesidenotesavemarbox\@currbox{#2}%
7843 \@xympar}
7844 \long\def\@bidityftesidenoteympar#1{%
7845 \@bidityftesidenotesavemarbox\@marbox{#1}%
7846 \global\setbox\@currbox\copy\@marbox
7847 \@xympar}
7848 \long\def \@bidityftesidenotesavemarbox #1#2{%
7849 \global\setbox #1%
7850 \color@vbox
7851 \vtop{%
7852 \hsize\marginparwidth
7853 \@parboxrestore
7854 \@bidityftesidenotemarginparreset
7855 #2%
7856 \@minipagefalse
7857 \outer@nobreak
7858 }%
7859 \color@endbox
7860 }
7861 \def \@bidityftesidenotemarginparreset {%
7862 \reset@font
7863 \normalsize
7864 \@minipagetrue
7865 \everypar{\@minipagefalse\everypar{}\if@RTL@footnote\beginR\else\beginL\fi}%
7866 }
7867 \def\LTRbidityftesidenotemarginpar{%
7868 \ifhmode
7869 \@bsphack
7870 \@floatpenalty -\@Mii
7871 \else
7872 \@floatpenalty-\@Miii
7873 \fi
7874 \ifinner
7875 \@parmoderr
7876 \@floatpenalty\z@
7877 \else
7878 \@next\@currbox\@freelist{}\{}%
7879 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7880 {\@floatpenalty\z@
7881 \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7882 \fi
7883 \ifnextchar [\@LTRbidityftesidenotexmpar\@LTRbidityftesidenoteympar}
7884 \long\def\@LTRbidityftesidenotexmpar[#1]#2{%

```



```

7885 \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7886 \@LTRbidityftesidenotesavemarbox\@currbox{#2}%
7887 \@xympar}
7888 \long\def\@LTRbidityftesidenoteympar#1{%
7889 \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7890 \global\setbox\@currbox\copy\@marbox
7891 \@xympar}
7892 \long\def \@LTRbidityftesidenotesavemarbox #1#2{%
7893 \global\setbox #1%
7894 \color@vbox
7895 \vtop{%
7896 \hsize\marginparwidth
7897 \@parboxrestore
7898 \@LTRbidityftesidenotemarginparreset
7899 #2%
7900 \@minipagefalse
7901 \outer@nobreak
7902 }%
7903 \color@endbox
7904 }
7905 \def \@LTRbidityftesidenotemarginparreset {%
7906 \reset@font
7907 \normalsize
7908 \@minipagetrue
7909 \everypar{\@minipagefalse\everypar{}\beginL}%
7910 }
7911 \def\RTLbidityftesidenotemarginpar{%
7912 \ifhmode
7913 \@bsphack
7914 \@floatpenalty -\@Mii
7915 \else
7916 \@floatpenalty-\@Miii
7917 \fi
7918 \ifinner
7919 \@parmoderr
7920 \@floatpenalty\z@
7921 \else
7922 \@next\@currbox\@freelist{}\}%
7923 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7924 {\@floatpenalty\z@
7925 \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7926 \fi
7927 \@ifnextchar [\@RTLbidityftesidenotexmpar\@RTLbidityftesidenoteympar}
7928 \long\def\@RTLbidityftesidenotexmpar[#1]#2{%
7929 \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
7930 \@RTLbidityftesidenotesavemarbox\@currbox{#2}%
7931 \@xympar}
7932 \long\def\@RTLbidityftesidenoteympar#1{%
7933 \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
7934 \global\setbox\@currbox\copy\@marbox
7935 \@xympar}
7936 \long\def \@RTLbidityftesidenotesavemarbox #1#2{%
7937 \global\setbox #1%
7938 \color@vbox

```



```

7939     \vtop{%
7940         \hsize\marginparwidth
7941         \@parboxrestore
7942         \@RTLbidityftesidenotemarginparreset
7943         #2%
7944         \@minipagefalse
7945         \outer@nobreak
7946     }%
7947     \color@endbox
7948 }
7949 \def \@RTLbidityftesidenotemarginparreset {%
7950     \reset@font
7951     \normalsize
7952     \@minipagetrue
7953     \everypar{\@minipagefalse\everypar{}\beginR}%
7954 }
7955 \newcommand*{\@bidityftesidenote@marginfont}{\normalfont\footnotesize}
7956 \newcommand*{\@bidityftesidenote@LTRmarginfont}{\normalfont\footnotesize}
7957 \newcommand*{\@bidityftesidenote@RTLmarginfont}{\normalfont\footnotesize}
7958 \newcommand*{\@bidityftesidenote@sidenote@font}{\@bidityftesidenote@marginfont}
7959 \newcommand*{\@bidityftesidenote@LTRsidenote@font}{\@bidityftesidenote@LTRmarginfont}
7960 \newcommand*{\@bidityftesidenote@RTLSidenote@font}{\@bidityftesidenote@RTLmarginfont}
7961 \newcommand*{\@bidityftesidenote@marginnote@font}{\@bidityftesidenote@marginfont}
7962 \newcommand*{\@bidityftesidenote@LTRmarginnote@font}{\@bidityftesidenote@LTRmarginfont}
7963 \newcommand*{\@bidityftesidenote@RTLmarginnote@font}{\@bidityftesidenote@RTLmarginfont}
7964 \newcommand*{\@bidityftesidenote@citation@font}{\@bidityftesidenote@marginfont}
7965 \newcommand*{\@bidityftesidenote@LTRcitation@font}{\@bidityftesidenote@LTRmarginfont}
7966 \newcommand*{\@bidityftesidenote@RTLcitation@font}{\@bidityftesidenote@RTLmarginfont}
7967 \newcommand*{\setsidenotefont}[1]{\renewcommand*{\@bidityftesidenote@sidenote@font}{#1}}
7968 \newcommand*{\setLTRsidenotefont}[1]{\renewcommand*{\@bidityftesidenote@LTRsidenote@font}{#1}}
7969 \newcommand*{\setRTLSidenotefont}[1]{\renewcommand*{\@bidityftesidenote@RTLSidenote@font}{#1}}
7970 \newcommand*{\setmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@marginnote@font}{#1}}
7971 \newcommand*{\setLTRmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@LTRmarginnote@font}{#1}}
7972 \newcommand*{\setRTLmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@RTLmarginnote@font}{#1}}
7973 \newcommand*{\setcitationfont}[1]{\renewcommand*{\@bidityftesidenote@citation@font}{#1}}
7974 \newcommand*{\setLTRcitationfont}[1]{\renewcommand*{\@bidityftesidenote@LTRcitation@font}{#1}}
7975 \newcommand*{\setRTLcitationfont}[1]{\renewcommand*{\@bidityftesidenote@RTLcitation@font}{#1}}
7976 \newcommand*{\@bidityftesidenote@sidenote@justification}{\@bidityftesidenote@justification@autodetect}
7977 \newcommand*{\@bidityftesidenote@marginnote@justification}{\@bidityftesidenote@justification@autodetect}
7978 \newcommand*{\@bidityftesidenote@citation@justification}{\@bidityftesidenote@justification@autodetect}
7979 \newcommand*{\@bidityftesidenote@justification@autodetect}{\justifying}%
7980 \newcommand*{\@bidityftesidenote@margin@par}{%
7981     \setlength{\RaggedRightParindent}{0.5pc}%
7982     \setlength{\JustifyingParindent}{0.5pc}%
7983     \setlength{\parindent}{0.5pc}%
7984     \setlength{\parskip}{0pt}%
7985 }
7986 %%
7987 % Globally sets the length
7988 \ifundefined{gsetlength}{%
7989 \newcommand*{gsetlength}[2]{%
7990     \setlength{#1}{#2}%
7991     \global#1=#1\relax%
7992 }%

```



```

7993 }{}
7994
7995 %%
7996 % A function that removes leading and trailing spaces from the supplied macro.
7997 % Based on code written by Michael Downes (See ``Around the Bend'', #15.)
7998 % Executing \@bidityftesidenote@trim@spaces\xyzzy will result in the contents of \xyzzy
7999 % being trimmed of leading and trailing white space.
8000 \catcode\Q=3
8001 \def\@bidityftesidenote@trim@spaces#1{%
8002   % Use grouping to emulate a multi-token afterassignment queue
8003   \begingroup%
8004   % Put \toks 0 {' into the afterassignment queue
8005   \aftergroup\toks\aftergroup0\aftergroup{%
8006   % Apply \trimb to the replacement text of #1, adding a leading
8007   % \noexpand to prevent brace stripping and to serve another purpose
8008   % later.
8009   \expandafter\@bidityftesidenote@trim@b\expandafter\noexpand#1Q Q}%
8010   % Transfer the trimmed text back into #1.
8011   \edef#1{\the\toks0}%
8012 }
8013 % \trimb removes a trailing space if present, then calls \@bidityftesidenote@trim@c to
8014 % clean up any leftover bizarre Qs, and trim a leading space. In
8015 % order for \trimc to work properly we need to put back a Q first.
8016 \def\@bidityftesidenote@trim@b#1 Q{\@bidityftesidenote@trim@c#1Q}
8017 % Execute \vfuzz assignment to remove leading space; the \noexpand
8018 % will now prevent unwanted expansion of a macro or other expandable
8019 % token at the beginning of the trimmed text. The \endgroup will feed
8020 % in the \aftergroup tokens after the \vfuzz assignment is completed.
8021 \def\@bidityftesidenote@trim@c#1Q#2{\afterassignment\endgroup \vfuzz\the\vfuzz#1}
8022 \catcode\Q=11
8023 %%
8024 % Citations should go in the margin as sidenotes
8025
8026 \RequirePackage{natbib}
8027 \RequirePackage{bibentry} % allows bibitems to be typeset outside thebibliography env
8028 % Redefine the \BR@b@bibitem command to fix a bug with bibentry+chicago style
8029 \renewcommand\BR@b@bibitem[2] [] {%
8030   \ifthenelse{\isempty{#1}}{%
8031     {\BR@bibitem{#2}}%
8032     {\BR@bibitem[#1]{#2}}%
8033   }{\BR@c@bibitem{#2}}%
8034 }
8035 \bidi@AtEndPreamble{\nobibliography*} % pre-loads the bibliography keys
8036 %%
8037 % Normal \cite behavior
8038 \newcounter{@bidityftesidenote@num@bibkeys}%
8039 \newcommand{@bidityftesidenote@normal@cite}[2] [Opt] {%
8040   % Snag the last bibentry in the list for later comparison
8041   \let@temp@last@bibkey\@empty%
8042   \@for@temp@bibkey:=#2\do{\let@temp@last@bibkey@temp@bibkey}%
8043   \sidenote[] [#1] {%
8044     % Loop through all the bibentries, separating them with semicolons and spaces
8045     \normalsize\normalfont\@bidityftesidenote@citation@font%
8046     \setcounter{@bidityftesidenote@num@bibkeys}{0}%

```



```

8047 \for\@temp@bibkeyx:=#2\do{%
8048 \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8049 {\ifthenelse{\equal{\value{\@bituftesidenote@num@bibkeys}}{0}}{\and\ }%
8050 \@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8051 \bibentry{\@temp@bibkeyx}}%
8052 {\@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8053 \bibentry{\@temp@bibkeyx};\ }%
8054 \stepcounter{\@bituftesidenote@num@bibkeys}%
8055 }%
8056 }%
8057 }
8058 \newcommand{\@bituftesidenote@normal@cite}[2][Opt]{%
8059 % Snag the last bibentry in the list for later comparison
8060 \let\@temp@last@bibkey\@empty%
8061 \for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8062 \LTRsidenote[] [#1]{%
8063 % Loop through all the bibentries, separating them with semicolons and spaces
8064 \normalsize\normalfont\@bituftesidenote@LTRcitation@font%
8065 \setcounter{\@bituftesidenote@num@bibkeys}{0}%
8066 \for\@temp@bibkeyx:=#2\do{%
8067 \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8068 {\ifthenelse{\equal{\value{\@bituftesidenote@num@bibkeys}}{0}}{\and\ }%
8069 \@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8070 \bibentry{\@temp@bibkeyx}}%
8071 {\@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8072 \bibentry{\@temp@bibkeyx};\ }%
8073 \stepcounter{\@bituftesidenote@num@bibkeys}%
8074 }%
8075 }%
8076 }
8077 \newcommand{\@bituftesidenote@RTLsidenote@normal@cite}[2][Opt]{%
8078 % Snag the last bibentry in the list for later comparison
8079 \let\@temp@last@bibkey\@empty%
8080 \for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8081 \RTLsidenote[] [#1]{%
8082 % Loop through all the bibentries, separating them with semicolons and spaces
8083 \normalsize\normalfont\@bituftesidenote@citation@font%
8084 \setcounter{\@bituftesidenote@num@bibkeys}{0}%
8085 \for\@temp@bibkeyx:=#2\do{%
8086 \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8087 {\ifthenelse{\equal{\value{\@bituftesidenote@num@bibkeys}}{0}}{\and\ }%
8088 \@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8089 \bibentry{\@temp@bibkeyx}}%
8090 {\@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8091 \bibentry{\@temp@bibkeyx};\ }%
8092 \stepcounter{\@bituftesidenote@num@bibkeys}%
8093 }%
8094 }%
8095 }
8096 %%
8097 % Macros for holding the list of cite keys until after the \sidenote
8098 \gdef\@bituftesidenote@citations{}% list of cite keys
8099 \newcommand{\@bituftesidenote@add@citation}[1]{\relax% adds a new bibkey to the list of cite
8100 \ifx\@bituftesidenote@citations\@empty\else

```



```

8101 \g@addto@macro\@bidityftesidenote@citations{,}% separate by commas
8102 \fi
8103 \g@addto@macro\@bidityftesidenote@citations{#1}
8104 }
8105 \newcommand{\@bidityftesidenote@print@citations}[1][0pt]{% puts the citations in a margin no
8106 % Snag the last bibentry in the list for later comparison
8107 \let\@temp@last@bibkey\@empty%
8108 \@for\@temp@bibkey:=\@bidityftesidenote@citations\do{\let\@temp@last@bibkey\@temp@bibkey}%
8109 \marginpar{%
8110 \hbox{\vspace*{#1}%
8111 \@bidityftesidenote@citation@font%
8112 \@bidityftesidenote@citation@justification%
8113 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8114 \vspace*{-1\baselineskip}%
8115 % Loop through all the bibentries, separating them with semicolons and spaces
8116 \setcounter{@bidityftesidenote@num@bibkeys}{0}%
8117 \@for\@temp@bibkeyx:=\@bidityftesidenote@citations\do{%
8118 \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
8119 {\ifthenelse{\equal{value{@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
8120 \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8121 \bibentry{\@temp@bibkeyx}}%
8122 {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8123 \bibentry{\@temp@bibkeyx};\ }%
8124 \stepcounter{@bidityftesidenote@num@bibkeys}}%
8125 }%
8126 }%
8127 }
8128 %%
8129 % \cite behavior when executed within a sidenote
8130 \newcommand{\@bidityftesidenote@sidenote@citations}{}% contains list of \cites in sidenote
8131 \newcommand{\@bidityftesidenote@infootnote@cite}[1]{%
8132 \@bidityftesidenote@add@citation{#1}
8133 }
8134 %%
8135 % Set the default \cite style. This is set and reset by the \sidenote command.
8136 \let\cite\@bidityftesidenote@normal@cite
8137 \let\LTRcite\@bidityfteLTRsidenote@normal@cite
8138 \let\RTLcite\@bidityfteRTLsidenote@normal@cite
8139 %%
8140 % Transform existing \footnotes into \sidenotes
8141 % Sidenote: ``Where God meant footnotes to go.''' ---bidityftesidenote
8142 \RequirePackage{optparams}% for our new sidenote commands -- provides multiple optional argu
8143 \providecommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote
8144 \renewcommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote
8145 % Override footmisc's definition to set the sidenote marks (numbers) inside the
8146 % sidenote's text block.
8147 \bidi@patch@AfterPackage{bidi}{\long\def\@makefnmark{\@textsuperscript{\@bidityftesidenote
8148 % Set the in-text footnote mark in the same typeface as the body text itself.
8149 \bidi@patch@AfterPackage{bidi}{\def\@makefnmark{\hbox{\@textsuperscript{\normalfont\footnote
8150 \providecommand*{\multiplefootnotemark}{\hbox{\@textsuperscript{\normalfont\footnote
8151 \providecommand*{\multfootsep}{,}}
8152 \bidi@patch@AfterPackage{bidi}{%
8153 \renewcommand{\@footnotemark}{%
8154 \leavevmode%

```



```

8155 \ifhmode%
8156 \edef\@x@sf{\the\spacefactor}%
8157 \@bidityftesidenote@check@multiple@sidenotes%
8158 \nobreak%
8159 \fi%
8160 \@makefnmark%
8161 \ifhmode\spacefactor\@x@sf\fi%
8162 \relax%
8163 }%
8164 }
8165 \newcommand{\@bidityftesidenote@check@multiple@sidenotes}{%
8166 \ifdim\lastkern=\multiplefootnotemarker\relax%
8167 \edef\@x@sf{\the\spacefactor}%
8168 \unkern%
8169 \textsuperscript{\multfootsep}%
8170 \spacefactor\@x@sf\relax%
8171 \fi
8172 }
8173 \bidi@patch@AfterPackage{bidi}{%
8174 \renewcommand\@footnotetext[2][Opt]{%
8175 \bidityftesidenotemarginpar{%
8176 \hbox{\vspace*{#1}%
8177 \def\baselinestretch {\setspace@singlespace}%
8178 \reset@font%
8179 \bidi@@footnotetext@font% \reset@font\footnotesize%
8180 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8181 \vspace*{-1\baselineskip}\noindent%
8182 \protected@edef\@currentlabel{%
8183 \csname p@footnote\endcsname\@thefnmark%
8184 }%
8185 \color@begingroup%
8186 \@makefnmark%
8187 \ignorespaces#2%
8188 }%
8189 \color@endgroup%
8190 }%
8191 }%
8192 \renewcommand\@LTRfootnotetext[2][Opt]{%
8193 \LTRbidityftesidenotemarginpar{%
8194 \hbox{\vspace*{#1}%
8195 \def\baselinestretch {\setspace@singlespace}%
8196 \reset@font%
8197 \bidi@@LTRfootnotetext@font% \reset@font\footnotesize%
8198 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8199 \vspace*{-1\baselineskip}\noindent%
8200 \protected@edef\@currentlabel{%
8201 \csname p@footnote\endcsname\@thefnmark%
8202 }%
8203 \color@begingroup%
8204 \@makefnmark%
8205 \ignorespaces#2%
8206 }%
8207 \color@endgroup%
8208 }%

```




```

8209 }%
8210 \renewcommand\@RTLfootnotetext[2][Opt]{%
8211   \RTLbidityftesidenotemarginpar{%
8212     \hbox{}}\vspace*{#1}%
8213     \def\baselinestretch {\set@space@singlespace}%
8214     \reset@font%
8215     \bidi@RTLfootnotetext@font% \reset@font\footnotesize%
8216     \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8217     \vspace*{-1\baselineskip}\noindent%
8218     \protected@edef\@currentlabel{%
8219       \csname p@footnote\endcsname\@thefnmark%
8220     }%
8221     \color@begingroup%
8222       \makefnintext{%
8223         \ignorespaces#2%
8224       }%
8225     \color@endgroup%
8226   }%
8227 }%
8228 }
8229 %
8230 % Define \sidenote command. Can handle \cite.
8231 \newlength{\@bidityftesidenote@sidenote@vertical@offset}
8232 \setlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}
8233 % #1 = footnote num, #2 = vertical offset, #3 = footnote text
8234 \long\def\@bidityftesidenote@sidenote[#1][#2]#3{%
8235   \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8236   \gdef\@bidityftesidenote@citations{}% clear out any old citations
8237   \ifthenelse{\NOT\isempty{#2}}{%
8238     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8239   }{%
8240     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8241   }%
8242   \ifthenelse{\isempty{#1}}{%
8243     % no specific footnote number provided
8244     \stepcounter\@mpfn%
8245     \protected@xdef\@thefnmark{\thempfn}%
8246     \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8247   }{%
8248     % specific footnote number provided
8249     \begingroup%
8250       \csname c@\@mpfn\endcsname #1\relax%
8251       \unrestored@protected@xdef\@thefnmark{\thempfn}%
8252     \endgroup%
8253     \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8254   }%
8255   \@bidityftesidenote@print@citations% print any citations
8256   \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8257   \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8258   \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8259   \unskip\ignorespaces% remove extra white space
8260   \kern-\multiplefootnotemark% remove \kern left behind by sidenote
8261   \kern\multiplefootnotemark\relax% add new \kern here to replace the one we yanked
8262 }

```



```

8263 \long\def\@LTRbidityftesidenote@sidenote[#1][#2]#3{%
8264 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8265 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8266 \ifthenelse{\NOT\isempty{#2}}{%
8267 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8268 }{%
8269 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8270 }%
8271 \ifthenelse{\isempty{#1}}{%
8272 % no specific footnote number provided
8273 \stepcounter\@mpfn%
8274 \protected@xdef\@thefnmark{\thempfn}%
8275 \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8276 }{%
8277 % specific footnote number provided
8278 \begingroup%
8279 \csname c@\@mpfn\endcsname #1\relax%
8280 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8281 \endgroup%
8282 \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8283 }%
8284 \@bidityftesidenote@print@citations% print any citations
8285 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8286 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8287 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8288 \unskip\ignorespaces% remove extra white space
8289 \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
8290 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8291 }
8292 \long\def\@RTLbidityftesidenote@sidenote[#1][#2]#3{%
8293 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8294 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8295 \ifthenelse{\NOT\isempty{#2}}{%
8296 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8297 }{%
8298 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8299 }%
8300 \ifthenelse{\isempty{#1}}{%
8301 % no specific footnote number provided
8302 \stepcounter\@mpfn%
8303 \protected@xdef\@thefnmark{\thempfn}%
8304 \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8305 }{%
8306 % specific footnote number provided
8307 \begingroup%
8308 \csname c@\@mpfn\endcsname #1\relax%
8309 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8310 \endgroup%
8311 \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8312 }%
8313 \@bidityftesidenote@print@citations% print any citations
8314 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8315 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8316 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL

```



```

8317 \unskip\ignorespaces%           remove extra white space
8318 \kern-\multiplefootnotemarker%   remove \kern left behind by sidenote
8319 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8320 }
8321 \newcommand{\sidenote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}
8322 \newcommand{\LTRsidenote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}
8323 \newcommand{\RTLsidenote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}
8324 \bidi@patch@AfterPackage{bidi}{%
8325 \renewcommand{\footnote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}%
8326 \renewcommand{\LTRfootnote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}%
8327 \renewcommand{\RTLfootnote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}%
8328 }
8329 %%
8330 % Sidenote without the footnote mark
8331 \newcommand\marginnote[2] [Opt]{%
8332 \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
8333 \gdef\@bidityftesidenote@citations{}%           clear out any old citations
8334 \bidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@marginnote@font\@bidityftesidenote@print@citations%
8335 \@bidityftesidenote@print@citations%             print any citations
8336 \let\cite\@bidityftesidenote@normal@cite%        go back to using normal in-text \cite command
8337 \let\LTRcite\@bidityfteLTRsidenote@normal@cite%  go back to using normal in-text \LTR
8338 \let\RTLcite\@bidityfteRTLsidenote@normal@cite%  go back to using normal in-text \RTL
8339 }
8340 \newcommand\LTRmarginnote[2] [Opt]{%
8341 \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
8342 \gdef\@bidityftesidenote@citations{}%           clear out any old citations
8343 \LTRbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@LTRmarginnote@font\@bidityftesidenote@print@citations%
8344 \@bidityftesidenote@print@citations%             print any citations
8345 \let\cite\@bidityftesidenote@normal@cite%        go back to using normal in-text \cite command
8346 \let\LTRcite\@bidityfteLTRsidenote@normal@cite%  go back to using normal in-text \LTR
8347 \let\RTLcite\@bidityfteRTLsidenote@normal@cite%  go back to using normal in-text \RTL
8348 }
8349 \newcommand\RTLmarginnote[2] [Opt]{%
8350 \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
8351 \gdef\@bidityftesidenote@citations{}%           clear out any old citations
8352 \RTLbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@RTLmarginnote@font\@bidityftesidenote@print@citations%
8353 \@bidityftesidenote@print@citations%             print any citations
8354 \let\cite\@bidityftesidenote@normal@cite%        go back to using normal in-text \cite command
8355 \let\LTRcite\@bidityfteLTRsidenote@normal@cite%  go back to using normal in-text \LTR
8356 \let\RTLcite\@bidityfteRTLsidenote@normal@cite%  go back to using normal in-text \RTL
8357 }

```

55 File bidityftetoc.sty

```

8358 \NeedsTeXFormat{LaTeX2e}
8359 \ProvidesPackage{bidityftetoc}[2011/06/17 v0.1
8360 bidi implementation of tufte toc]
8361 \RequirePackage{titlesec,titletoc,xifthen,biditytools}
8362 \newcommand{\@bidityftetoc@pkgname}{bidityftetoc}
8363 \newcommand{\@bidityftetocError}[2]{\PackageError{\@bidityftetoc@pkgname}{#1}{#2}}
8364 %%
8365 % Turn off section numbering
8366 \setcounter{secnumdepth}{-1}
8367 \newboolean{\@bidityftetoc@toc}

```



```

8368 \setboolean{@biditytetoc@toc}{true}
8369 \DeclareOption{notoc}{\setboolean{@biditytetoc@toc}{false}}
8370 \DeclareOption{toc}{\setboolean{@biditytetoc@toc}{true}}
8371 \ProcessOptions
8372 %%
8373 % Make Tuftean-style section headings and TOC formatting
8374 \bidi@patch@AfterPackage{bidi}{%
8375 \titleformat{\chapter}%
8376 [display]% shape
8377 {\relax\ifthenelse{\NOT\boolean{@biditytetofloat@symmetric}}{\begin{fullwidth}}{}}% format
8378 {\itshape\huge\thechapter}% label
8379 {0pt}% horizontal separation between label and title body
8380 {\huge\rmfamily\itshape}% before the title body
8381 [\ifthenelse{\NOT\boolean{@biditytetofloat@symmetric}}{\end{fullwidth}}{}}% after the title
8382 \titleformat{\section}%
8383 [hang]% shape
8384 {\normalfont\Large\itshape}% format applied to label+text
8385 {\thesection}% label
8386 {1em}% horizontal separation between label and title body
8387 {}% before the title body
8388 []% after the title body
8389 \titleformat{\subsection}%
8390 [hang]% shape
8391 {\normalfont\large\itshape}% format applied to label+text
8392 {\thesubsection}% label
8393 {1em}% horizontal separation between label and title body
8394 {}% before the title body
8395 []% after the title body
8396 \titleformat{\paragraph}%
8397 [runin]% shape
8398 {\normalfont\itshape}% format applied to label+text
8399 {\theparagraph}% label
8400 {1em}% horizontal separation between label and title body
8401 {}% before the title body
8402 []% after the title body
8403 \titlespacing*{\chapter}{0pt}{50pt}{40pt}
8404 \titlespacing*{\section}{0pt}{3.5ex plus 1ex minus .2ex}{2.3ex plus .2ex}
8405 \titlespacing*{\subsection}{0pt}{3.25ex plus 1ex minus .2ex}{1.5ex plus .2ex}
8406 }
8407 % Subsubsection and following section headings shouldn't be used.
8408 % See Bringhurst's _The Elements of Typography_, section 4.2.2.
8409 \renewcommand\subsubsection{%
8410 \biditytetocError{\noexpand\subsubsection is undefined by this class.%
8411 \MessageBreak See Robert Bringhurst's _The Elements of
8412 \MessageBreak Typographic Style_, section 4.2.2.
8413 \MessageBreak \noexpand\subsubsection was used}
8414 {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8415 \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
8416 \MessageBreak related threads on Ask E.T. at http://www.edwardbiditytetoc.com/.}
8417 }
8418 \renewcommand\subparagraph{%
8419 \biditytetocError{\noexpand\subparagraph is undefined by this class.%
8420 \MessageBreak See Robert Bringhurst's _The Elements of
8421 \MessageBreak Typographic Style_, section 4.2.2.

```



```

8422 \MessageBreak \noexpand\subparagraph was used}
8423 {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8424 \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
8425 \MessageBreak related threads on Ask E.T. at http://www.edwardbiditytetoc.com/.}
8426 }
8427 % Formatting for main TOC (printed in front matter)
8428 % {section} [left] {above} {before w/label} {before w/o label} {filler + page} [after]
8429 \ifthenelse{\boolean{@biditytetoc@toc}}{%
8430 \bidity@patch@AfterPackage{bidity}{%
8431 \titlecontents{part}% FIXME
8432 [0em] % distance from left margin
8433 {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global form
8434 {\contentslabel{2em}} % before w/label (label = ``II'')
8435 {} % before w/o label
8436 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8437 [\end{fullwidth}] % after
8438 \titlecontents{chapter}%
8439 [0em] % distance from left margin
8440 {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global form
8441 {\hspace*{0em}\contentslabel{2em}} % before w/label (label = ``2'')
8442 {\hspace*{0em}} % before w/o label
8443 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8444 [\end{fullwidth}] % after
8445 \titlecontents{section}% FIXME
8446 [0em] % distance from left margin
8447 {\vspace{0\baselineskip}\begin{fullwidth}\Large\rmfamily\itshape} % above (global format
8448 {\hspace*{2em}\contentslabel{2em}} % before w/label (label = ``2.6'')
8449 {\hspace*{2em}} % before w/o label
8450 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8451 [\end{fullwidth}] % after
8452 \titlecontents{subsection}% FIXME
8453 [0em] % distance from left margin
8454 {\vspace{0\baselineskip}\begin{fullwidth}\large\rmfamily\itshape} % above (global format
8455 {\hspace*{4em}\contentslabel{4em}} % before w/label (label = ``2.6.1'')
8456 {\hspace*{4em}} % before w/o label
8457 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8458 [\end{fullwidth}] % after
8459 \titlecontents{paragraph}% FIXME
8460 [0em] % distance from left margin
8461 {\vspace{0\baselineskip}\begin{fullwidth}\normalsize\rmfamily\itshape} % above (global f
8462 {\hspace*{6em}\contentslabel{2em}} % before w/label (label = ``2.6.0.0.1'')
8463 {\hspace*{6em}} % before w/o label
8464 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8465 [\end{fullwidth}] % after
8466 }%
8467 }{}
8468 %%
8469 % Format lists of figures/tables
8470 \renewcommand\listoffigures{%
8471 \ifundefined{chapter}%
8472 {\section*{\listfigurename}}%
8473 {\chapter*{\listfigurename}}%
8474 % \begin{fullwidth}%
8475 \@starttoc{lof}%

```



```

8476 % \end{fullwidth}%
8477 }
8478 \renewcommand\listoftables{%
8479   \@ifundefined{chapter}%
8480     {\section*{\listtablename}}%
8481     {\chapter*{\listtablename}}%
8482 % \begin{fullwidth}%
8483   \@starttoc{lot}%
8484 % \end{fullwidth}%
8485 }
8486 \newcommand{\@bidityfttoc@lof@line}[2]{%
8487   % #1 is the figure/table number and its caption text
8488   % #2 is the page number on which the figure/table appears
8489   \leftskip 0.0em
8490   \rightskip 0em
8491   \parfillskip 0em plus 1fil
8492   \parindent 0.0em
8493   \@afterindenttrue
8494   \interlinepenalty\@M
8495   \leavevmode
8496   \@tempdima 2.0em
8497   \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
8498   \null\nobreak\hskip -\if@RTL\rightskip\else\leftskip\fi
8499   {#1}\nobreak\qquad\nobreak#2%
8500   \par%
8501 }
8502 \renewcommand*\l@figure{\@bidityfttoc@lof@line}
8503 \let\l@table\l@figure

```

56 File bidityftgeneralstructure.sty

```

8504 \NeedsTeXFormat{LaTeX2e}
8505 \ProvidesPackage{bidityftgeneralstructure}[2011/06/18 v0.1
8506 bidi implementation of tufte general structure]
8507 \renewcommand\small{%
8508   \@setfontsize\small\@ixpt{12}%
8509   \abovedisplayskip 8.5\p@ \@plus3\p@ \@minus4\p@
8510   \abovedisplayshortskip \z@ \@plus2\p@
8511   \belowdisplayshortskip 4\p@ \@plus2\p@ \@minus2\p@
8512   \def\@listi{\leftmargin\leftmargini
8513     \topsep 4\p@ \@plus2\p@ \@minus2\p@
8514     \parsep 2\p@ \@plus\p@ \@minus\p@
8515     \itemsep \parsep}%
8516   \belowdisplayskip \abovedisplayskip
8517 }
8518 \renewcommand\scriptsize{\@setfontsize\scriptsize\@viipt\@viipt}
8519 \renewcommand\tiny{\@setfontsize\tiny\@vpt\@vpt}
8520 \renewcommand\large{\@setfontsize\large\@xipt{15}}
8521 \renewcommand\Large{\@setfontsize\Large\@xiipt{16}}
8522 \renewcommand\LARGE{\@setfontsize\LARGE\@xivpt{18}}
8523 \renewcommand\huge{\@setfontsize\huge\@xxpt{30}}
8524 \renewcommand\Huge{\@setfontsize\Huge{24}{36}}
8525 \setlength\leftmargini {1pc}
8526 \setlength\leftmarginii {1pc}

```



```

8527 \setlength\leftmarginiii {1pc}
8528 \setlength\leftmarginiv {1pc}
8529 \setlength\leftmarginv {1pc}
8530 \setlength\leftmarginvi {1pc}
8531 \setlength\labelsep {0.5pc}
8532 \setlength\labelwidth {\leftmargini}
8533 \addtolength\labelwidth{-\labelsep}
8534 \setlength{\parindent}{1.0pc}%
8535 \setlength{\parskip}{0pt}%
8536 \RequirePackage{ragged2e}
8537 \setlength{\RaggedRightRightskip}{\z@ plus 0.08\hsize}
8538 % Paragraph indentation and separation for normal text
8539 \newcommand{\@biditytgeneralstructure@reset@par}{%
8540 \setlength{\RaggedRightParindent}{1.0pc}%
8541 \setlength{\JustifyingParindent}{1.0pc}%
8542 \setlength{\parindent}{1pc}%
8543 \setlength{\parskip}{0pt}%
8544 }
8545 \@biditytgeneralstructure@reset@par
8546 % Require paralist package for tighter lists
8547 \RequirePackage{paralist}
8548 % Add rightmargin to compactenum
8549 \def\@compactenum{%
8550 \expandafter\list\csname label\@enumctr\endcsname{%
8551 \usecounter{\@enumctr}%
8552 \rightmargin=2em% added this
8553 \parsep\plparsep
8554 \itemsep\plitemsep
8555 \topsep\pltopsep
8556 \partopsep\plpartopsep
8557 \def\makelabel##1{\hss\llap{##1}}}}
8558 %%
8559 % An environment for paragraph-style section
8560 \providecommand\newthought[1]{%
8561 \addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}%
8562 \noindent\textbf{#1}%
8563 }
8564 %%
8565 % Redefine the display environments (quote, quotation, etc.)
8566 \renewenvironment{verse}
8567 {\let\\ \@centercr
8568 \list{}{\itemsep \z@
8569 \itemindent -1pc%
8570 \listparindent\itemindent
8571 \rightmargin \leftmargin
8572 \advance\leftmargin 1pc}%
8573 \small%
8574 \item\relax}
8575 {\endlist}
8576 \renewenvironment{quotation}
8577 {\list{}{\listparindent 1pc%
8578 \itemindent \listparindent
8579 \rightmargin \leftmargin
8580 \parsep \z@ \@plus\p@}%

```



```

8581             \small%
8582             \item\relax\noindent\ignorespaces}
8583         {\endlist}
8584 \renewenvironment{quote}
8585         {\list{}{\rightmargin\leftmargin}%
8586         \small%
8587         \item\relax}
8588         {\endlist}
8589 % Italicize description run-in headings (instead of the default bold)
8590 \renewcommand*{\descriptionlabel[1]{\hspace\labelsep\normalfont\em #1}
8591 %%
8592 % Redefine \bibsection to not mark the running heads.
8593 % (Code modified from natbib.sty.)
8594 \@ifundefined{chapter}%
8595   {\renewcommand\bibsection{\section*{\refname}}}
8596   {\@ifundefined{NAT@sectionbib}%
8597     {\renewcommand\bibsection{\chapter{\bibname}}}
8598     {\renewcommand\bibsection{\section*{\bibname}}}}
8599 \RequirePackage{multicol}
8600 \renewenvironment{theindex}{%
8601 \@ifundefined{chapter}%
8602   {\section*{\indexname}}%
8603   {\chapter{\indexname}}%
8604 \begin{fullwidth}%
8605 \small%
8606 \parskip0pt%
8607 \parindent0pt%
8608 \let\item\@idxitem%
8609 \begin{multicols}{3}%
8610 }{%
8611 \end{multicols}%
8612 \end{fullwidth}%
8613 }
8614 \AtBeginDocument{%
8615 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi2em}%
8616 \renewcommand\subitem{\par\hangindent \if@RTL-\fi3em\hspace*{1em}}%
8617 \renewcommand\subsubitem{\par\hangindent \if@RTL-\fi4em\hspace*{2em}}
8618 \renewcommand\indexspace{\par\addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}\relax}%
8619 \newcommand{\lettergroup}[1]{}% swallow the letter heading in the index

```

57 File `bidituftehyperref.sty`

```

8620 \NeedsTeXFormat{LaTeX2e}
8621 \ProvidesPackage{bidituftehyperref}[2011/06/18 v0.1
8622 bidi implementation of tufte hyperref]
8623 %%
8624 % Color
8625 \RequirePackage[usenames,dvipsnames,svgnames]{xcolor}%
8626 \newboolean{@bidituftehyperref@loadhyper}
8627 \setboolean{@bidituftehyperref@loadhyper}{true}
8628 \DeclareOption{hyper}{\setboolean{@bidituftehyperref@loadhyper}{true}}
8629 \DeclareOption{nohyper}{\setboolean{@bidituftehyperref@loadhyper}{false}}
8630 \ProcessOptions
8631 %% Loads the hyperref package and sets some default options.

```




```

8632 \newcommand{\bidityftehyperrefLoadHyperref}{%
8633 \RequirePackage[hyperfootnotes=false,colorlinks=true]{hyperref}
8634 \hypersetup{%
8635     bookmarksdepth = section,
8636     citecolor = DarkGreen,
8637     linkcolor = DarkBlue,
8638 %    pagecolor = DarkBlue,
8639     urlcolor = DarkGreen,
8640 }%
8641 }
8642 \ifthenelse{\boolean{@bidityftehyperref@loadhyper}}{%
8643 \bidityftehyperrefLoadHyperref%
8644 }{% hyperfootnotes override our modifications to the \footnote* and \@footnote* commands.
8645 \PassOptionsToPackage[hyperfootnotes=false]{hyperref}
8646 }

```

58 File bidityftetitle.sty

```

8647 \NeedsTeXFormat{LaTeX2e}
8648 \ProvidesPackage{bidityftetitle}[2011/06/18 v0.1
8649 bidi implementation of tufte title]
8650 \RequirePackage{biditytools}
8651 %%
8652 % 'titlepage' option -- creates a full title page with \maketitle
8653 \newboolean{@bidityftetitle@titlepage}
8654 \DeclareOption{titlepage}{\setboolean{@bidityftetitle@titlepage}{true}}
8655 \DeclareOption{notitlepage}{\setboolean{@bidityftetitle@titlepage}{false}}
8656 % Default 'book' and 'handout' options
8657 \@ifclassloaded{book}{%
8658 \ExecuteOptions{titlepage}}{%
8659 \@ifclassloaded{article}{%
8660 \ExecuteOptions{notitlepage}}%
8661 {}}
8662 \ProcessOptions
8663 %%
8664 % Modified \title, \author, and \date commands. These store the
8665 % (footnote-less) values in \plaintitle, \plainauthor, and \thedata, respectively.
8666 \newcommand{\plaintitle}{}% plain-text-only title
8667 \newcommand{\plainauthor}{}% plain-text-only author
8668 \newcommand{\plainpublisher}{}% plain-text-only publisher
8669 \newcommand{\thanklesstitle}{}% full title text minus \thanks{}
8670 \newcommand{\thanklessauthor}{}% full author text minus \thanks{}
8671 \newcommand{\thanklesspublisher}{}% full publisher minus \thanks{}
8672 \newcommand{\@publisher}{}% full publisher with \thanks{}
8673 \newcommand{\thedata}{\today}
8674 \bidi@patch@AfterPackage{bidi}{%
8675 \renewcommand{\thanks}[1]{\footnote{#1}}
8676 \renewcommand{\LTRthanks}[1]{\LTRfootnote{#1}}
8677 \renewcommand{\RTLthanks}[1]{\RTLfootnote{#1}}
8678 }
8679 \renewcommand{\title}[2][{}]{%
8680 \gdef\@title{#2}%
8681 \begingroup%
8682 % TODO store contents of \thanks command

```



```

8683 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8684 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8685 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8686 \protected@xdef\thanklesstitle{#2}%
8687 \endgroup%
8688 \ifthenelse{\isempty{#1}}%
8689 {\renewcommand{\plaintitle}{\thanklesstitle}}% use thankless title
8690 {\renewcommand{\plaintitle}{#1}}% use provided plain-text title
8691 \@ifundefined{hypersetup}%
8692 {}% hyperref is not loaded; do nothing
8693 {\hypersetup{pdftitle={\plaintitle}}}% set the PDF metadata title
8694 }
8695 \let\@author\@empty% suppress default latex.ltx ``no author'' warning
8696 \renewcommand{\author}[2][]{%
8697 \ifthenelse{\isempty{#2}}{\gdef\@author{#2}}%
8698 \begingroup%
8699 % TODO store contents of \thanks command
8700 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8701 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8702 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8703 \protected@xdef\thanklessauthor{#2}%
8704 \endgroup%
8705 \ifthenelse{\isempty{#1}}%
8706 {\renewcommand{\plainauthor}{\thanklessauthor}}% use thankless author
8707 {\renewcommand{\plainauthor}{#1}}% use provided plain-text author
8708 \@ifundefined{hypersetup}%
8709 {}% hyperref is not loaded; do nothing
8710 {\hypersetup{pdfauthor={\plainauthor}}}% set the PDF metadata author
8711 }
8712 \renewcommand{\date}[1]{%
8713 \gdef\@date{#1}%
8714 \begingroup%
8715 % TODO store contents of \thanks command
8716 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8717 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8718 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8719 \protected@xdef\thedata{#1}%
8720 \endgroup%
8721 }
8722 %%
8723 % Provides a \publisher command to set the publisher
8724 \newcommand{\publisher}[2][]{%
8725 \gdef\@publisher{#2}%
8726 \begingroup%
8727 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8728 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8729 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8730 \protected@xdef\thanklesspublisher{#2}%
8731 \endgroup%
8732 \ifthenelse{\isempty{#1}}%
8733 {\renewcommand{\plainpublisher}{\thanklesspublisher}}% use thankless publisher
8734 {\renewcommand{\plainpublisher}{#1}}% use provided plain-text publisher
8735 }
8736 %%

```



```

8737 % Produces a full title page
8738 \newcommand{\maketitlepage}[0]{%
8739   \cleardoublepage%
8740   {%
8741     \bfseries%
8742     \begin{fullwidth}%
8743       \fontsize{18}{20}\selectfont\par\noindent\thanklessauthor%
8744       \vspace{11.5pc}%
8745       \fontsize{36}{40}\selectfont\par\noindent\thanklesstitle%
8746       \vfill%
8747       \fontsize{14}{16}\selectfont\par\noindent\thanklesspublisher%
8748     \end{fullwidth}%
8749   }
8750   \thispagestyle{empty}%
8751   \clearpage%
8752 }
8753 %%
8754 % Title block
8755 \bidi@AfterEndPreamble{%
8756 \renewcommand{\maketitle}{%
8757   \newpage%
8758   \global\@topnum\z@% prevent floats from being placed at the top of the page
8759   \begingroup%
8760     \setlength{\parindent}{0pt}%
8761     \setlength{\parskip}{4pt}%
8762     \let\@title\@empty%
8763     \let\@author\@empty%
8764     \let\@date\@empty%
8765     \gdef\@title{\LARGE\itshape\@title\par}%
8766     \gdef\@author{\Large\itshape\@author\par}%
8767     \gdef\@date{\Large\itshape\@date\par}%
8768     \@title%
8769     \@author%
8770     \@date%
8771   \endgroup%
8772   \thispagestyle{plain}% suppress the running head
8773 }%
8774 }
8775 %%
8776 % Title page (if the `titlepage' option was passed to the bidentitetitle-handout
8777 % class.)
8778 \bidi@AfterEndPreamble{%
8779 \ifthenelse{\boolean{@bidentitetitle@titlepage}}
8780   {\renewcommand{\maketitle}{\maketitlepage}}
8781   {}
8782 }
8783 %%
8784 % When \cleardoublepage is called, produce a blank (empty) page -- i.e.,
8785 % without headers and footers
8786 \def\cleardoublepage{\clearpage\if@twoside\ifodd\c@page\else
8787   \hbox{}
8788   %\vspace*{\fill}
8789   %\begin{center}
8790   % This page intentionally contains only this sentence.

```



```

8791 %\end{center}
8792 %\vspace{\fill}
8793 \thispagestyle{empty}
8794 \newpage
8795 \if@twocolumn\hbox{}\newpage\fi\fi\fi

```

59 File `biditufte-handout.cls`

```

8796 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8797 \ProvidesClass{biditufte-handout}[2011/06/18 v0.1 biditufte-handout class]
8798 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
8799 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftefloat}}
8800 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetoc}}
8801 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftehyperref}}
8802 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetitle}}
8803 \ProcessOptions\relax
8804 \LoadClass{article}
8805 \RequirePackage{bidituftefloat}
8806 \RequirePackage{bidituftesidenote}
8807 \RequirePackage{bidituftetoc}
8808 \RequirePackage{bidituftegeneralstructure}
8809 \RequirePackage{bidituftehyperref}
8810 \RequirePackage{bidituftetitle}
8811 \renewenvironment{abstract}
8812   {\begin{quotation}}
8813   {\end{quotation}}
8814 \AtBeginDocument{%
8815 \IfFileExists{biditufte-handout.cfg}
8816   {\input{biditufte-handout.cfg}
8817     \ClassInfo{biditufte-handout}{Loading biditufte-handout configuration file \@gobble}}
8818   {}%
8819 }

```

60 File `biditufte-book.cls`

```

8820 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8821 \ProvidesClass{biditufte-book}[2011/06/18 v0.1 biditufte-book class]
8822 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
8823 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftefloat}}
8824 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetoc}}
8825 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftehyperref}}
8826 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetitle}}
8827 \ProcessOptions\relax
8828 \LoadClass{book}
8829 \RequirePackage{bidituftefloat}
8830 \RequirePackage{bidituftesidenote}
8831 \RequirePackage{bidituftetoc}
8832 \RequirePackage{bidituftegeneralstructure}
8833 \RequirePackage{bidituftehyperref}
8834 \RequirePackage{bidituftetitle}
8835 %%
8836 % Set up any book-specific stuff now
8837 %%
8838 % The front matter in Tufte's /Beautiful Evidence/ contains everything up

```



```

8839 % to the opening page of Chapter 1. The running heads, when they appear,
8840 % contain only the (arabic) page number in the outside corner.
8841 %\newif\if@mainmatter \@mainmattertrue
8842 \renewcommand\frontmatter{%
8843   \cleardoublepage%
8844   \@mainmatterfalse%
8845   \pagenumbering{arabic}%
8846   %\pagestyle{plain}%
8847   \fancyhf{}%
8848   \ifthenelse{\boolean{@bidituftefloat@twoside}}%
8849     {\fancyhead[LE,RO]{\thepage}}%
8850     {\fancyhead[RE,RO]{\thepage}}%
8851 }
8852 %%
8853 % The main matter in Tufte's /Beautiful Evidence/ doesn't restart the page
8854 % numbering---it continues where it left off in the front matter.
8855 \renewcommand\mainmatter{%
8856   \cleardoublepage%
8857   \@mainmattertrue%
8858   \fancyhf{}%
8859   \ifthenelse{\boolean{@bidituftefloat@twoside}}%
8860     {\renewcommand{\chaptermark}[1]{\markboth{##1}{}}}%
8861     {\fancyhead[LE]{\thepage\quad\smallcaps{\newlinetospace{\plaintitle}}}% book title
8862     \fancyhead[RO]{\smallcaps{\newlinetospace{\leftmark}}\quad\thepage}% chapter title
8863     {\fancyhead[RE,RO]{\smallcaps{\newlinetospace{\plaintitle}}\quad\thepage}}% book title
8864 }
8865 %%
8866 % The back matter contains appendices, indices, glossaries, endnotes,
8867 % bibliographies, list of contributors, illustration credits, etc.
8868 \renewcommand\backmatter{%
8869   \if@openright%
8870     \cleardoublepage%
8871   \else%
8872     \clearpage%
8873   \fi%
8874   \@mainmatterfalse%
8875 }
8876 %%
8877 % Only show the chapter titles in the table of contents
8878 \setcounter{tocdepth}{0}
8879 \AtBeginDocument{%
8880 \IfFileExists{biditufte-book.cfg}
8881   {\input{biditufte-book.cfg}
8882    \ClassInfo{biditufte-book}{Loading biditufte-book configuration file \@gobble}}
8883   {}%
8884 }

```

61 File bidipoem.sty

```

8885 \NeedsTeXFormat{LaTeX2e}
8886 \ProvidesPackage{bidipoem}%
8887 [2019/03/03 v1.0 Environments for typesetting Persian traditional and modern poems]
8888
8889 % Usage:

```



```

8890 %
8891 % \Setversedim #1#2 % define the layout (within a group):
8892 % #1 = length of both half-verses
8893 % #2 = separation distance = length of a connection, if present
8894 % Variant:
8895 % \Setversedim #1[#2]#3 % for half-verses of unequal length
8896 % #1 = length of first (=right) half-verse
8897 % #2 = length of second (=left) half-verse
8898 % #3 = separation distance = length of a connection, if present
8899 %
8900 % \traditionalhalfverses #1#2 % typeset two separated half-verses
8901 % #1 = text of first (=right) half-verse
8902 % #2 = text of second (=left) half-verse
8903 % Variant:
8904 % \traditionalhalfverses #1[#2]#3 % typeset two connected half-verses
8905 % #1 = text of first (=right) half-verse
8906 % #2 = text of connection
8907 % #3 = text of second (=left) half-verse
8908 %
8909 % Alternative (if preferred):
8910 %
8911 % \traditionalconnverses #1#2#3 % = \traditionalhalfverses #1[#2]#3
8912
8913
8914 \newcommand*{\bidipoem@spreadbox}[2]{\hbox to #1{#2}}
8915
8916 % define the layout, verses will be centered
8917
8918 \newdimen \bidipoem@hvlen \newdimen \bidipoem@hvsep
8919 \newdimen \bidipoem@hvind \newdimen \bidipoem@@hvlen
8920
8921 \newcommand*{\Setversedim}[2]{% set lengths of half-verse, [separation]
8922 \bidipoem@hvind \textwidth
8923 \bidipoem@hvlen #1\relax \advance \bidipoem@hvind -\bidipoem@hvlen
8924 \ifx [#2\def \bidipoem@next {\bidipoem@set@verseI []}\else
8925 \bidipoem@@hvlen \bidipoem@hvlen \def \bidipoem@next {\bidipoem@set@@verse {#2}}\fi \bidipoem@
8926
8927 \def \bidipoem@set@verseI [#1]{% optional parameter
8928 \bidipoem@@hvlen #1\relax \bidipoem@set@@verse }
8929
8930 \newcommand*{\bidipoem@set@@verse}[1]{% separation
8931 \advance \bidipoem@hvind -\bidipoem@@hvlen \bidipoem@hvsep #1\relax
8932 \advance \bidipoem@hvind -\bidipoem@hvsep \divide \bidipoem@hvind 2 }
8933
8934 \newcommand*{\traditionalconnverses}[3]{% first half-verse, connection, second half-verse
8935 \ifdim Opt > \bidipoem@hvind %
8936 \bidipoem@spreadbox \bidipoem@hvlen {#1}\\ \hfill % first block
8937 \else
8938 \noindent \hskip \bidipoem@hvind \relax \bidipoem@spreadbox \bidipoem@hvlen {#1}\fi
8939 \bidipoem@spreadbox \bidipoem@hvsep {#2}% separator
8940 \bidipoem@spreadbox \bidipoem@@hvlen {#3}% second block
8941 \par }
8942
8943 % macro for two half verses

```



```

8944 \newcommand*{\traditionalhalfverses}[2]{% optional parameter?
8945 \ifx [#2\def\bidipoem@half@verses@next{\bidipoem@half@verses {#1}}}%
8946 \else\def\bidipoem@half@verses@next{\bidipoem@half@verses {#1}[\hfill]{#2}}\fi%
8947 \bidipoem@half@verses@next}
8948
8949 \def \bidipoem@half@verses #1[#2]#3{% first[mid]second
8950 \traditionalconnverses {#1}{#2}{#3}}
8951
8952
8953 {\catcode\^^M=\active % these lines must end with %
8954 \gdef\traditionalpoem@obeylines{\catcode\^^M=\active \let^^M\traditionalpoem@par}%
8955 \global\let^^M\traditionalpoem@par} % this is in case ^^M appears in a \write
8956 {\catcode\^^M=\active % these lines must end with %
8957 \gdef\modernpoem@obeylines{\catcode\^^M=\active \let^^M\modernpoem@par}%
8958 \global\let^^M\modernpoem@par} % this is in case ^^M appears in a \write
8959 \def\poemcolsepskip{.1\versewidth plus .1\versewidth minus .05\versewidth}
8960 \def\poemmarginskip{1em plus 1fil minus 1em}
8961 \def\poemextrabaseskip{0\baselineskip}
8962 \def\poemskip{\medskip}
8963 \newcommand{\bidipoem@openbox}{\leavevmode
8964 \hbox to.77778em{%
8965 \hfil\vrule
8966 \vbox to.675em{\hrule width.6em\vfil\hrule}%
8967 \vrule\hfil}}
8968 \def\poemblocksep{\quad\hbox{\bidipoem@openbox}}
8969 \newdimen\versewidth
8970 \newtoks\bidipoem@p@ftn
8971 \def\poem@verse#1{%
8972 \ifdim\wd#1>\new@poem@width
8973 \xdef\new@poem@width{\the\wd#1}%
8974 \ifdim\new@poem@width>\poem@width
8975 \xdef\poem@width{\new@poem@width}%
8976 \global\let\poem@needrun\relax
8977 \fi
8978 \fi
8979 \hbox to\poem@width{\unhbox#1}%
8980 \global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn%
8981 }
8982 \def\poem@linebegin{\vadjust{}\hskip\@flushglue\hskip\poemmarginskip\relax}
8983 \def\poem@lineend{\nobreak\hskip\poemmarginskip\hskip\@flushglue\vadjust{}}
8984 \def\poem@lineversesep{%
8985 \nobreak
8986 \hskip\z@ plus 1filll%
8987 \penalty600%
8988 \hskip\poemcolsepskip
8989 \hskip\z@ plus -2filll%
8990 \vadjust{}}%
8991 \nobreak
8992 \hskip\z@ plus 1filll%
8993 }
8994 \def\poem@lineparsebegin{%
8995 \halign\bgroup
8996 \global\setbox\verse@i=\hbox{%
8997 \let\@footnotetext\bidipoem@p@ftntext%

```



```

8998 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
8999 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9000 \let\@xfootnotenext\bidipoem@p@xftntext%
9001 \let\@xfootnote\bidipoem@p@xfootnote%
9002 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9003 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9004 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9005 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9006 \ignorespaces##\unskip}&&
9007 \global\setbox\verse@ii=\hbox{%
9008 \let\@footnotetext\bidipoem@p@ftntext%
9009 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9010 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9011 \let\@xfootnotenext\bidipoem@p@xftntext%
9012 \let\@xfootnote\bidipoem@p@xfootnote%
9013 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9014 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9015 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9016 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9017 \ignorespaces##\unskip}
9018 \cr
9019 }
9020 \def\poem@lineparseend{%
9021 \crr\egroup
9022 \vskip-\baselineskip
9023 }
9024 \def\traditionalpoem@cr{%
9025 \cr\poem@line
9026 }
9027 \newbox\verse@i
9028 \newbox\verse@ii
9029 \newif\ifpoem@started
9030
9031 \def\poem@line{%
9032 \poem@lineparseend
9033 \ifdim\wd\verse@i>\z@\global\poem@startedtrue\fi
9034 \ifdim\wd\verse@ii>\z@\global\poem@startedtrue\fi
9035 \ifpoem@started
9036 \ifdim\wd\verse@ii>\z@\else
9037 \nopagebreak[3]
9038 \fi
9039 \leavevmode
9040 \poem@linebegin
9041 \poem@verse\verse@i
9042 \ifdim\wd\verse@ii>\z@
9043 \poem@lineversesep
9044 \poem@verse\verse@ii
9045 \fi
9046 \poem@lineend
9047 % \nopagebreak
9048 \par
9049 \vskip\poemextrabaselineskip
9050 \fi
9051 \poem@lineparsebegin

```




```

9052 }
9053 \def \@traditionalpoem{%
9054 \stepcounter{poem@no}
9055 \ifnum\max@poem@no<\number\c@poem@no%
9056 \xdef\poem@width{\z@}%
9057 \else
9058 \xdef\poem@width{\poem@prop{poem@width}}%
9059 \fi
9060 \xdef\new@poem@width{\z@}%
9061 \global\versewidth=\poem@width
9062 \poemskip\par
9063 \begingroup
9064 \tabskip=\z@
9065 \parskip=\z@
9066 \parindent=\z@
9067 \parfillskip=\z@
9068 \rightskip=\z@
9069 \leftskip=\z@
9070 \widowpenalty=10000% No break between verses of the same line.
9071 \clubpenalty=10000% Same as above. Not really needed.
9072 \def\newblock{\hfil\poemblocksep\hfil\null}%
9073 \def\traditionalpoem@par{\traditionalpoem@cr}% Redefine \par for possible \obeylines
9074 \def\{\global\poem@startedtrue\traditionalpoem@cr}%
9075 \global\poem@startedfalse
9076 \csname poem@obeylines\endcsname
9077 \let\poem@obeylines\relax
9078 \poem@lineparsebegin
9079 }
9080 \def \@endtraditionalpoem{%
9081 \cr
9082 \ifdim\wd\verse@i>\z@\poem@line\else\ifdim\wd\verse@ii>\z@\poem@line\else
9083 \noalign{%
9084 \skip0=\poemextrabaselineskip
9085 \vskip-\skip0
9086 \vskip-\baselineskip
9087 }%
9088 \fi\fi
9089 \poem@lineparseend
9090 \endgroup
9091 \par
9092 \vskip\baselineskip
9093 \poemskip
9094 \ifdim\new@poem@width<\poem@width
9095 \global\let\poem@needrun\relax
9096 \fi
9097 \poem@write@aux{poem@width@\romannumeral\c@poem@no}{\new@poem@width}%
9098 \ifx\AtEndDocument\undefined\poem@finish\fi
9099 \@endparenv
9100 }
9101
9102
9103 \long\def\bidipoem@p@ftntext#1{%
9104 \edef\@temp{x{\the\bidipoem@p@ftn\noexpand\footnotetext[\the\csname c@\mpfn\endcsname]}}%
9105 \global\bidipoem@p@ftn\expandafter{\@tempx{#1}}}%

```



```

9106 \long\def\bidipoem@p@LTRftntext#1{%
9107   \edef\@tempxi{\the\bidipoem@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\mpfn\endcsname]
9108   \global\bidipoem@p@ftn\expandafter{\@tempxi{#1}}}%
9109 \long\def\bidipoem@p@RTLftntext#1{%
9110   \edef\@tempxi{\the\bidipoem@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\mpfn\endcsname]
9111   \global\bidipoem@p@ftn\expandafter{\@tempxi{#1}}}%
9112
9113 \long\def\bidipoem@p@xftntext[#1]#2{%
9114   \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\footnotetext[#1]{#2}}}
9115
9116 \long\def\bidipoem@p@xLTRftntext[#1]#2{%
9117   \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\LTRfootnotetext[#1]{#2}}}
9118
9119 \long\def\bidipoem@p@xRTLftntext[#1]#2{%
9120   \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\RTLfootnotetext[#1]{#2}}}
9121
9122 \def\bidipoem@p@xfootnote[#1]{%
9123   \begingroup
9124     \csname c@\mpfn\endcsname #1\relax
9125     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9126   \endgroup
9127   \@footnotemark\bidipoem@p@xftntext[#1]}
9128
9129 \def\bidipoem@p@xLTRfootnote[#1]{%
9130   \begingroup
9131     \csname c@\mpfn\endcsname #1\relax
9132     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9133   \endgroup
9134   \@footnotemark\bidipoem@p@xLTRftntext[#1]}
9135
9136 \def\bidipoem@p@xRTLfootnote[#1]{%
9137   \begingroup
9138     \csname c@\mpfn\endcsname #1\relax
9139     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9140   \endgroup
9141   \@footnotemark\bidipoem@p@xRTLftntext[#1]}
9142
9143
9144
9145 \newenvironment{traditionalpoem}{\@traditionalpoem}{\@endtraditionalpoem}
9146 \expandafter\def\csname traditionalpoem*\endcsname{\let\poem@obeylines=\traditionalpoem@obey}
9147 \expandafter\def\csname endtraditionalpoem*\endcsname{\endtraditionalpoem}
9148 \def\poem@finish{%
9149 \poem@write@aux{max@poem@no}{\number\c@poem@no}%
9150 \ifx\poem@needrun\relax
9151 \PackageWarning{bidipoem}{Unjustified poem. Rerun TeX to get poem right}%
9152 \global\let\poem@needrun\undefined
9153 \fi
9154 }
9155 \ifx\AtEndDocument\undefined\else\AtEndDocument\poem@finish\fi
9156 \newcounter{poem@no}\setcounter{poem@no}{\z@}
9157 \ifx\max@poem@no\undefined
9158   \def\max@poem@no{0}%
9159 \fi

```



```

9160 \newcommand{\poem@prop}[1]{\@nameuse{#1@romannumeral@c@poem@no}}
9161 \newcommand{\poem@write@aux}[2]{%
9162     \def\@x{\immediate\write\@auxout{\global\noexpand\@namedef{#1}{#2}}}%
9163     \@x
9164 }
9165 \def\@modernpoem{%
9166 \par
9167 \begingroup
9168 \parskip=\z@
9169 \parindent=\z@
9170 \def\[\{\@settab\@tabplus\ignorespaces}%
9171 \def\]\{\@tabminus\ignorespaces}%
9172 \def\newblock{\poemblocksep}%
9173 \let\newpoem@tabcr\@tabcr
9174 \def\modernpoem@par{% Redefine \par for possible \obeylines
9175     \ifpoem@started\else
9176         \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9177             \@stopfield
9178             \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9179             \@contfield
9180         \fi
9181     \fi
9182     \ifpoem@started\newpoem@tabcr\fi}%
9183 \def\@tabcr{\global\poem@startedtrue\newpoem@tabcr}%
9184 \global\poem@startedfalse
9185 \csname poem@obeylines\endcsname
9186 \let\poem@obeylines\relax
9187 \begin{tabbing}%
9188 }
9189 \def\@endmodernpoem{%
9190 \global\poem@startedfalse
9191 \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9192     \@stopfield
9193     \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9194     \@contfield
9195 \fi
9196 \ifpoem@started\else\let\@stopline\@stopfield\fi
9197 \end{tabbing}%
9198 \endgroup
9199 \par
9200 \if@nparlist \else
9201     \ifdim\lastskip >\z@
9202         \@tempkipa\lastskip \vskip -\lastskip
9203         \advance\@tempkipa\parskip \advance\@tempkipa -\@outerparskip
9204         \vskip\@tempkipa
9205     \fi
9206     \@endparenv
9207 \fi
9208 }
9209 \newenvironment{modernpoem}{\@modernpoem}{\@endmodernpoem}
9210 \expandafter\def\csname modernpoem*\endcsname{\let\poem@obeylines=\modernpoem@obeylines\mode
9211 \expandafter\def\csname endmodernpoem*\endcsname{\endmodernpoem}
9212 \gdef\@startfield{%
9213 \global\setbox\@curfield\hbox\bgroup%

```



```

9214 \let\@footnotetext\bidipoem@p@ftntext%
9215 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9216 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9217 \let\@xfootnotenext\bidipoem@p@xftntext%
9218 \let\@xfootnote\bidipoem@p@xfootnote%
9219 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9220 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9221 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9222 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9223 \color@begingroup}
9224 \gdef\@stopfield{%
9225   \color@endgroup\egroup\global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn}
9226 \gdef\@contfield{%
9227   \global\setbox\@curfield\hbox\bgroup%
9228   \let\@footnotetext\bidipoem@p@ftntext%
9229   \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9230   \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9231   \let\@xfootnotenext\bidipoem@p@xftntext%
9232   \let\@xfootnote\bidipoem@p@xfootnote%
9233   \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9234   \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9235   \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9236   \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9237 \color@begingroup\unhbox\@curfield}

```

62 File boek3-xetex-bidi.def

```

9238 \ProvidesFile{boek3-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek3 class for XeTeX]
9239 \renewenvironment{theindex}{%
9240   \if@twocolumn
9241     \@restonecolfalse
9242   \else
9243     \@restonecoltrue
9244   \fi
9245   \columnseprule \z@
9246   \columnsep 35\p@
9247   \twocolumn[\@makeschapterhead{\indexname}]%
9248   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9249   \thispagestyle{plain}\parindent\z@
9250   \parskip\z@ \@plus .3\p@\relax
9251   \let\item\@idxitem
9252 }{%
9253   \if@restonecol\onecolumn\else\clearpage\fi}
9254 \renewcommand*\head@style{%
9255   \interlinepenalty \@M
9256   \hyphenpenalty=\@M \exhyphenpenalty=\@M
9257   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9258 \renewcommand*\@regtocline[3]{%
9259   \ifnum #1>\c@tocdepth
9260   \else
9261     \vskip\z@ \@plus .2\p@
9262     {\hangindent\z@ \@afterindenttrue \interlinepenalty \@M
9263     \if@RTL\rightskip\else\leftskip\fi\unitindent
9264     \if@RTL\leftskip\else\rightskip\fi\unitindent \@plus 1fil

```



```

9265     \parfillskip\z@
9266     \@tempdima\unitindent
9267     \parindent\z@
9268     \leavevmode
9269     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9270     \hskip 1em \nobreak{\slshape #3}\par
9271     }%
9272 \fi}
9273 \if@oldtoc
9274 \renewcommand*\l@part[2]{%
9275   \ifnum \c@tocdepth >-2\relax
9276     \addpenalty{-\@highpenalty}%
9277     \addvspace{2.25em \@plus\p@}%
9278     \begingroup
9279       \setlength\@tempdima{3em}%
9280       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9281       \parfillskip -\@pnumwidth
9282       {\leavevmode
9283         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9284         \nobreak
9285         \global\@nobreaktrue
9286         \everypar{\global\@nobreakfalse\everypar{}}%
9287       \endgroup
9288     \fi}
9289 \else
9290   \renewcommand*\l@part{%
9291     \ifnum \c@tocdepth >-2\relax
9292       \addpenalty{-\@highpenalty}%
9293       \addvspace{2.25em \@plus \p@}%
9294       \@regtocline{0}%
9295     \fi}
9296 \fi
9297 \if@oldtoc
9298 \renewcommand*\l@chapter[2]{%
9299   \addpenalty{-\@highpenalty}%
9300   \vskip 1.0em \@plus\p@
9301   \setlength\@tempdima{1.5em}%
9302   \begingroup
9303     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9304     \parfillskip -\@pnumwidth
9305     \leavevmode \bfseries
9306     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9307     \hskip -\if@RTL\rightskip\else\leftskip\fi
9308     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9309     \penalty\@highpenalty
9310   \endgroup}
9311 \else
9312   \renewcommand*\l@chapter{\@regtocline{0}}
9313 \fi
9314 \renewenvironment{abstract}{%
9315   \titlepage
9316   \null\vfil
9317   \section*{\SectFont \abstractname}
9318   \noindent\ignorespaces}

```



```

9319     {\par\vfil\null\endtitlepage}
9320 \renewenvironment{thebibliography}[1]
9321     {\chapter*{\bibname}%
9322      \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9323      \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
9324      \bidi@thebibliography@font@hook%
9325      \list{\@biblabel{\@arabic\c@enumiv}}%
9326          {\settowidth\labelwidth{\@biblabel{#1}}%
9327           \leftmargin\labelwidth
9328           \advance\leftmargin\labelsep
9329           \@openbib@code
9330           \usecounter{enumiv}%
9331           \let\p@enumiv\@empty
9332           \renewcommand*{theenumiv}{\@arabic\c@enumiv}}%
9333      \sloppy\clubpenalty4000\widowpenalty4000%
9334      \sfcode\.\@m}
9335 {\def\@noitemerr
9336   {\@latex@warning{Empty `thebibliography' environment}}}%
9337 \endlist}
9338 \renewcommand*\left@footnoterule{%
9339   \kern-3\p@
9340   \kern.5\baselineskip
9341   \hrule\@width\unitindent
9342   \kern.4\baselineskip
9343 }
9344 \renewcommand*\right@footnoterule{%
9345   \kern-3\p@
9346   \kern.5\baselineskip
9347   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9348   \kern.4\baselineskip}
9349 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9350 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9351 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9352 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9353 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9354 \renewcommand*\theequation{%
9355   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9356 \renewcommand*\thefigure{%
9357   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
9358 \renewcommand*\thetable{%
9359   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
9360 \renewcommand*\maketitle{%
9361   \begin{titlepage}%
9362     \let\footnotesize\small
9363     \let\right@footnoterule\relax
9364     \let\left@footnoterule\relax
9365     \let\textwidth\footnoterule\relax
9366     \let \footnote \thanks
9367     \long\def\@makefnmark##1{\parindent\z@
9368       \def\labelitemi{\textendash}\@revlabeltrue
9369       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9370     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9371     \ifcompatibility\setcounter{page}{0}\fi
9372     \null\vfil

```



```

9373 \vskip 60\p@
9374 \begin{center}%
9375 \TitleFont
9376 {\LARGE \def\{\{\penalty -\@M}
9377 \if@allcaps
9378 \expandafter\uc@nothanks\@title\thanks\relax
9379 \else
9380 \@title
9381 \fi\par}%
9382 \vskip 3em%
9383 {\large
9384 \lineskip .75em \parindent\z@
9385 \begin{tabular}[t]{c}%
9386 \if@allcaps
9387 \expandafter\uc@authornothanks\@author\and\relax
9388 \else
9389 \@author
9390 \fi
9391 \end{tabular}\par}%
9392 \vskip 1.5em%
9393 {\large
9394 \if@allcaps
9395 \uppercase\expandafter{\@date}%
9396 \else
9397 \@date
9398 \fi\par}%
9399 \end{center}\par
9400 \@thanks
9401 \vfil\null
9402 \end{titlepage}%
9403 \setcounter{footnote}{0}%
9404 \global\let\thanks\relax
9405 \global\let\maketitle\relax
9406 \global\let\@thanks\@empty
9407 \global\let\@author\@empty
9408 \global\let\@title\@empty
9409 \global\let\@date\@empty
9410 \global\let\title\relax
9411 \global\let\author\relax
9412 \global\let\date\relax
9413 \global\let\and\relax
9414 }

```

63 File boek-xetex-bidi.def

```

9415 \ProvidesFile{boek-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek class for XeTeX]
9416 \renewenvironment{theindex}{%
9417 \if@twocolumn
9418 \@restonecolfalse
9419 \else
9420 \@restonecoltrue
9421 \fi
9422 \columnseprule \z@
9423 \columnsep 35\p@

```



```

9424 \twocolumn[\@makeschapterhead{\indexname}]%
9425 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9426 \thispagestyle{plain}\parindent\z@
9427 \parskip\z@ \@plus .3\p@\relax
9428 \let\item\@idxitem
9429 }{%
9430 \if@restonecol\onecolumn\else\clearpage\fi}
9431 \renewcommand*\head@style{%
9432   \interlinepenalty \@M
9433   \hyphenpenalty=\@M \exhyphenpenalty=\@M
9434   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9435 \renewcommand*\@regtocline[3]{%
9436   \ifnum #1>\c@tocdepth
9437   \else
9438     \vskip\z@ \@plus .2\p@
9439     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
9440     \if@RTL\rightskip\else\leftskip\fi\unitindent
9441     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
9442     \parfillskip\z@
9443     \@tempdima\unitindent
9444     \parindent\z@
9445     \leavevmode
9446     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9447     \hskip 1em \nobreak{\slshape #3}\par
9448   }%
9449 \fi}
9450 \if@oldtoc
9451 \renewcommand*\l@part[2]{%
9452   \ifnum \c@tocdepth >-2\relax
9453     \addpenalty{-\@highpenalty}%
9454     \addvspace{2.25em \@plus\p@}%
9455     \begingroup
9456       \setlength\@tempdima{3em}%
9457       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9458       \parfillskip -\@pnumwidth
9459       {\leavevmode
9460        \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9461        \nobreak
9462        \global\@nobreaktrue
9463        \everypar{\global\@nobreakfalse\everypar{}}%
9464      \endgroup
9465   \fi}
9466 \else
9467   \renewcommand*\l@part{%
9468     \ifnum \c@tocdepth >-2\relax
9469       \addpenalty{-\@highpenalty}%
9470       \addvspace{2.25em \@plus \p@}%
9471       \@regtocline{0}%
9472     \fi}
9473 \fi
9474 \if@oldtoc
9475 \renewcommand*\l@chapter[2]{%
9476   \addpenalty{-\@highpenalty}%
9477   \vskip 1.0em \@plus\p@

```




```

9478 \setlength\@tempdima{1.5em}%
9479 \begingroup
9480 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9481 \parfillskip -\@pnumwidth
9482 \leavevmode \bfseries
9483 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9484 \hskip -\if@RTL\rightskip\else\leftskip\fi
9485 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9486 \penalty\@highpenalty
9487 \endgroup}
9488 \else
9489 \renewcommand*\l@chapter{\@regtocline{0}}
9490 \fi
9491 \renewcommand*\left@footnoterule{%
9492 \kern-3\p@
9493 \kern.5\baselineskip
9494 \hrule\@width\unitindent
9495 \kern.4\baselineskip
9496 }
9497 \renewcommand*\right@footnoterule{%
9498 \kern-3\p@
9499 \kern.5\baselineskip
9500 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9501 \kern.4\baselineskip}
9502 \renewenvironment{abstract}{%
9503 \titlepage
9504 \null\vfil
9505 \section*\SectFont \abstractname}
9506 \noindent\ignorespaces}
9507 {\par\vfil\null\endtitlepage}
9508 \renewenvironment{thebibliography}[1]
9509 {\chapter*\bibname}%
9510 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9511 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9512 \bidi@thebibliography@font@hook%
9513 \list{\@biblabel{\@arabic\c@enumiv}}%
9514 {\settowidth\labelwidth{\@biblabel{#1}}%
9515 \leftmargin\labelwidth
9516 \advance\leftmargin\labelsep
9517 \@openbib@code
9518 \usecounter{enumiv}%
9519 \let\p@enumiv\@empty
9520 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9521 \sloppy\clubpenalty4000\widowpenalty4000%
9522 \sfcode`\.\@m}
9523 {\def\@noitemerr
9524 {\@latex@warning{Empty `thebibliography' environment}}}%
9525 \endlist}
9526 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9527 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9528 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9529 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9530 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9531 \renewcommand*\theequation{%

```



```

9532 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9533 \renewcommand*\thefigure{%
9534 \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
9535 \renewcommand*\thetable{%
9536 \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
9537 \renewcommand*\maketitle{%
9538 \begin{titlepage}%
9539 \let\footnotesize\small
9540 \let\right@footnoterule\relax
9541 \let\left@footnoterule\relax
9542 \let\textwidth\footnoterule\relax
9543 \let \footnote \thanks
9544 \long\def\@makefntext##1{\parindent\z@
9545 \def\labelitemi{\textendash}\@revlabeltrue
9546 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9547 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9548 \if@compatibility\setcounter{page}{0}\fi
9549 \null\vfil
9550 \vskip 60\p@
9551 \begin{center}%
9552 \TitleFont
9553 {\LARGE \def\\{\penalty -\@M}
9554 \if@allcaps
9555 \expandafter\uc@nothanks\@title\thanks\relax
9556 \else
9557 \@title
9558 \fi\par}%
9559 \vskip 3em%
9560 {\large
9561 \lineskip .75em \parindent\z@
9562 \begin{tabular}[t]{c}%
9563 \if@allcaps
9564 \expandafter\uc@authornothanks\@author\and\relax
9565 \else
9566 \@author
9567 \fi
9568 \end{tabular}\par}%
9569 \vskip 1.5em%
9570 {\large
9571 \if@allcaps
9572 \uppercase\expandafter{\@date}%
9573 \else
9574 \@date
9575 \fi\par}%
9576 \end{center}\par
9577 \@thanks
9578 \vfil\null
9579 \end{titlepage}%
9580 \setcounter{footnote}{0}%
9581 \global\let\thanks\relax
9582 \global\let\maketitle\relax
9583 \global\let\@thanks\@empty
9584 \global\let\@author\@empty
9585 \global\let\@title\@empty

```



```

9586 \global\let\@date\@empty
9587 \global\let\title\relax
9588 \global\let\author\relax
9589 \global\let\date\relax
9590 \global\let\and\relax
9591 }

```

64 File `bookest-xetex-bidi.def`

```

9592 \ProvidesFile{bookest-xetex-bidi.def}[2010/07/25 v0.4 bidi adaptations for bookest class for
9593 \def\@makechapterhead#1{%
9594 \vspace*{20\p@}
9595 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9596 \ifnum \c@secnumdepth >\m@ne
9597 \if@mainmatter
9598 {\colorA\huge\scshape \@chapapp\space \thechapter}
9599 \par\nobreak
9600 \vskip 10\p@
9601 \fi
9602 \fi
9603 \interlinepenalty\@M
9604 {\colorB\hrule}
9605 \vskip 15\p@
9606 \if@RTL\begin{flushleft}\else\begin{flushright}\fi
9607 {\colorA\Huge \bfseries #1}\par\nobreak
9608 \if@RTL\end{flushleft}\else\end{flushright}\fi
9609 \vskip 5\p@
9610 {\colorB\hrule}
9611 \vskip 30\p@
9612 }}
9613 \def\@makeschapterhead#1{%
9614 \vspace*{20\p@}
9615 {\parindent \z@ \raggedright \normalfont
9616 {\colorB\hrule}
9617 \vskip 15\p@
9618 \begin{center}
9619 {\colorA\Huge \bfseries #1}\par\nobreak
9620 \end{center}
9621 \vskip 5\p@
9622 {\colorB\hrule}
9623 \vskip 30\p@
9624 }}

```

65 File `book-xetex-bidi.def`

```

9625 \ProvidesFile{book-xetex-bidi.def}[2025/09/04 v1.3 bidi adaptations for standard book class
9626 \renewenvironment{theindex}
9627 {\if@twocolumn
9628 \restonecolfalse
9629 \else
9630 \restonecoltrue
9631 \fi
9632 \columnseprule \z@
9633 \columnsep 35\p@

```



```

9634             \twocolumn[\@makeschapterhead{\indexname}]%
9635             \@mkboth{\MakeUppercase\indexname}%
9636             {\MakeUppercase\indexname}%
9637             \thispagestyle{plain}\parindent\z@
9638             \parskip\z@ \@plus .3\p@\relax
9639             \let\item\@idxitem}
9640             {\if@restonecol\onecolumn\else\clearpage\fi}
9641 \IfClassLoadedF{bookest}{%
9642   \if@titlepage
9643     \renewcommand\maketitle{\begin{titlepage}%
9644       \let\footnotesize\small
9645       \let\right@footnoterule\relax
9646       \let\left@footnoterule\relax
9647       \let\textwidth@footnoterule\relax
9648       \let \footnote \thanks
9649       \let \LTRfootnote \LTRthanks
9650       \let \RTLfootnote \RTLthanks
9651       \null\vfil
9652       \vskip 60\p@
9653       \begin{center}%
9654         {\LARGE \@title \par}%
9655         \vskip 3em%
9656         {\large
9657           \lineskip .75em%
9658           \begin{tabular}[t]{c}%
9659             \@author
9660             \end{tabular}\par}%
9661         \vskip 1.5em%
9662         {\large \@date \par}%           % Set date in \large size.
9663       \end{center}\par
9664       \@thanks
9665       \vfil\null
9666     \end{titlepage}%
9667     \setcounter{footnote}{0}%
9668     \global\let\thanks\relax
9669     \global\let\LTRthanks\relax
9670     \global\let\RTLthanks\relax
9671     \global\let\maketitle\relax
9672     \global\let\@thanks\@empty
9673     \global\let\@author\@empty
9674     \global\let\@date\@empty
9675     \global\let\@title\@empty
9676     \global\let\title\relax
9677     \global\let\author\relax
9678     \global\let\date\relax
9679     \global\let\and\relax
9680 }
9681 \else
9682 \renewcommand\maketitle{\par
9683   \begingroup
9684     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
9685     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
9686     \long\def\@makefntext##1{\parindent 1em\noindent
9687       \hb@xt@1.8em{\%

```



```

9688             \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
9689     \if@twocolumn
9690         \ifnum \col@number=\@ne
9691             \@maketitle
9692         \else
9693             \twocolumn[\@maketitle]%
9694         \fi
9695     \else
9696         \newpage
9697         \global\@topnum\z@    % Prevents figures from going at top of page.
9698         \@maketitle
9699         \fi
9700         \thispagestyle{plain}\@thanks
9701     \endgroup
9702     \setcounter{footnote}{0}%
9703     \global\let\thanks\relax
9704     \global\let\LTRthanks\relax
9705     \global\let\RTLthanks\relax
9706     \global\let\maketitle\relax
9707     \global\let\@maketitle\relax
9708     \global\let\@thanks\@empty
9709     \global\let\@author\@empty
9710     \global\let\@date\@empty
9711     \global\let\@title\@empty
9712     \global\let\title\relax
9713     \global\let\author\relax
9714     \global\let\date\relax
9715     \global\let\and\relax
9716 }
9717 \def\@maketitle{%
9718     \newpage
9719     \null
9720     \vskip 2em%
9721     \begin{center}%
9722         \let \footnote \thanks
9723         \let \LTRfootnote \LTRthanks
9724         \let \RTLfootnote \RTLthanks
9725         {\LARGE \@title \par}%
9726         \vskip 1.5em%
9727         {\large
9728             \lineskip .5em%
9729             \begin{tabular}[t]{c}%
9730                 \@author
9731             \end{tabular}\par}%
9732         \vskip 1em%
9733         {\large \@date}%
9734     \end{center}%
9735     \par
9736     \vskip 1.5em}
9737 \fi}
9738 \IfPackageLoadedF{tocloft}{%
9739 \renewcommand*\l@part[2]{%
9740     \ifnum \c@tocdepth >-2\relax
9741         \addpenalty{-\@highpenalty}%

```



```

9742 \addvspace{2.25em \@plus\p@}%
9743 \setlength\@tempdima{3em}%
9744 \begingroup
9745 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9746 \parfillskip -\@pnumwidth
9747 {\leavevmode
9748 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9749 \nobreak
9750 \global\@nobreaktrue
9751 \everypar{\global\@nobreakfalse\everypar{}}%
9752 \endgroup
9753 \fi}
9754 \renewcommand*\l@chapter[2]{%
9755 \ifnum \c@tocdepth >\m@ne
9756 \addpenalty{-\@highpenalty}%
9757 \vskip 1.0em \@plus\p@
9758 \setlength\@tempdima{1.5em}%
9759 \begingroup
9760 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9761 \parfillskip -\@pnumwidth
9762 \leavevmode \bfseries
9763 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9764 \hskip -\if@RTL\rightskip\else\leftskip\fi
9765 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9766 \penalty\@highpenalty
9767 \endgroup
9768 \fi}
9769 }
9770 \renewcommand\left@footnoterule{%
9771 \kern-3\p@
9772 \hrule\@width.4\columnwidth
9773 \kern2.6\p@}
9774 \renewcommand\right@footnoterule{%
9775 \kern-3\p@
9776 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
9777 \kern2.6\p@}
9778 \renewcommand\theequation
9779 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
9780 \renewcommand \thefigure
9781 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
9782 \renewcommand \thetable
9783 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
9784 \renewcommand \thechapter {\@arabic\c@chapter}
9785 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
9786 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
9787 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
9788 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
9789 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
9790 \def\@makechapterhead#1{%
9791 \vspace*{50\p@}%
9792 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9793 \ifnum \c@secnumdepth >\m@ne
9794 \if@mainmatter
9795 \huge\bfseries \@chapapp\space \thechapter

```



```

9796         \par\nobreak
9797         \vskip 20\p@
9798     \fi
9799 \fi
9800 \interlinepenalty\@M
9801 \Huge \bfseries #1\par\nobreak
9802 \vskip 40\p@
9803 }}
9804 \def\@makeschapterhead#1{%
9805     \vspace*{50\p@}%
9806     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
9807     \normalfont
9808     \interlinepenalty\@M
9809     \Huge \bfseries #1\par\nobreak
9810     \vskip 40\p@
9811 }}
9812 \renewcommand\backmatter{%
9813     \if@openright
9814         \cleardoublepage
9815     \else
9816         \clearpage
9817     \fi
9818     \@mainmatterfalse}
9819 \IfPackageLoadedF{natbib}{%
9820 \renewenvironment{thebibliography}[1]
9821     {\chapter*{\bibname}%
9822     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9823     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9824     \bidi@thebibliography@font@hook%
9825     \list{\@biblabel{\@arabic{c@enumiv}}}%
9826         {\settowidth\labelwidth{\@biblabel{#1}}%
9827         \leftmargin\labelwidth
9828         \advance\leftmargin\labelsep
9829         \@openbib@code
9830         \usecounter{enumiv}%
9831         \let\p@enumiv\@empty
9832         \renewcommand\theenumiv{\@arabic{c@enumiv}}}%
9833     \sloppy
9834     \clubpenalty4000
9835     \@clubpenalty \clubpenalty
9836     \widowpenalty4000%
9837     \sfcode`.\@m}
9838 {\def\@noitemerr
9839     {\@latex@warning{Empty `thebibliography' environment}}}%
9840 \endlist}
9841 }

```

66 File breqn-xetex-bidi.def

```

9842 \ProvidesFile{breqn-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for breqn package for X
9843 \def\@dmath[#1]{\if@RTL\@RTLfalse\fi%
9844 \everydisplay\expandafter{\the\everydisplay \display@setup}%
9845 \if@noskipsec \leavevmode \fi
9846 \if@inlabel \leavevmode \global\@inlabelfalse \fi

```



```

9847 \if\eq@group\else\eq@prelim\fi
9848 \setkeys{breqn}{#1}%
9849 \the\eqstyle
9850 \eq@setnumber
9851 \begingroup
9852 \eq@setup@a
9853 \eq@startup
9854 }
9855 \def\@dgroup[#1]{\if@RTL\@RTLfalse\fi%
9856 \let\eq@group\@True \global\let\eq@GRP@first@dmath\@True
9857 \global\GRP@queue\@emptytoks \global\setbox\GRP@box\box\voidb@x
9858 \global\let\GRP@label\@empty
9859 \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@
9860 \global\grp@linewidth\z@\global\grp@wdNum\z@
9861 \global\let\grp@eqs@numbered\@False
9862 \global\let\grp@aligned\@True
9863 \global\let\grp@shiftnumber\@False
9864 \eq@prelim
9865 \setkeys{breqn}{#1}%
9866 \if\grp@hasNumber \grp@setnumber \fi
9867 }
9868 \def\@dseries[#1]{\if@RTL\@RTLfalse\fi%
9869 \let\display@setup\dseries@display@setup
9870 % Question: should this be the default for dseries???
9871 \global\eq@wdCond\z@
9872 \@dmath[layout={M},#1]%
9873 \mathsurround\z@\@math \penalty\@Mi
9874 \let\endmath\ends@math
9875 \def\premath{%
9876 \ifdim\lastskip<.3em \unskip
9877 \else\ifnum\lastpenalty<\@M \dquad\fi\fi
9878 }%
9879 \def\postmath{\unpenalty\eq@addpunct \penalty\intermath@penalty \dquad \@ignoretrue}%
9880 \ignorespaces
9881 }
9882 \def\eqnumform#1{\if@nonlatin\beginR\@RTLtrue\fi(#1\@italiccorr)\if@nonlatin\endR\fi}
9883 \renewenvironment{dsuspend}{%
9884 \global\setbox\EQ@box\vbox\bgroup\if@nonlatin\@RTLtrue\fi \@parboxrestore
9885 \parshape 1 \displayindent \displaywidth\relax
9886 \hsize=\columnwidth \noindent\ignorespaces
9887 }{%
9888 \par\egroup
9889 \global\setbox\GRP@box\vbox{%
9890 \hbox{\copy\EQ@box\top{\unvbox\EQ@box}}%
9891 \unvbox\GRP@box
9892 }%
9893 \global\GRP@queue\@xp{\the\GRP@queue
9894 \elt{\let\eq@isIntertext\@True}%
9895 }%
9896 }

```

67 File cals-xetex-bidi.def

9897 \ProvidesFile{cals-xetex-bidi.def}[2016/11/30 v0.4 bidi adaptations for cals package for XeT




```

9898 \renewcommand\cals@setup@alignment[1]{%
9899 \if c#1\relax \cals@vfillAdd \leftskip \cals@vfillAdd \rightskip \fi
9900 \if l#1\relax \cals@vfillDrop\leftskip \cals@vfillDrop\rightskip \fi
9901 \if r#1\relax \cals@vfillAdd \leftskip \cals@vfillDrop\rightskip \fi
9902 }
9903 \renewcommand\cals@table@alignment{\if@RTLtab r\else l\fi}
9904 \renewenvironment{calstable}[1][\cals@table@alignment]{%
9905 \if@RTLtab\cals@activate@rtl\fi
9906 \let\cals@thead@tokens=\relax
9907 \let\cals@tfoot@tokens=\relax
9908 \let\cals@tbody@tokens=\relax
9909 \cals@tfoot@height=0pt \relax
9910 \let\cals@last@context=n%
9911 \let\cals@current@context=b%
9912 \parindent=0pt \relax%
9913 \cals@setup@alignment{#1}%
9914 \cals@setpadding{Ag}\cals@setcellprevdepth{Al}\cals@set@tohsz%
9915 %% Alignment inside is independent on center/flushright outside
9916 \parfillskip=0pt plus1fil\relax
9917 \let\cals@borderL=\relax
9918 \let\cals@borderR=\relax
9919 \let\cals@borderT=\relax
9920 \let\cals@borderB=\relax
9921 \setbox\cals@backup@row=\box\voidb@x\relax
9922 \cals@AtBeginTable
9923 }{% End of the table
9924 \cals@tfoot@tokens\lastrule\cals@AtEndTable}
9925 \renewcommand\alignL{%
9926 \if@RTLtab
9927 \cals@vfillAdd\cals@paddingL
9928 \else
9929 \cals@vfillDrop\cals@paddingL
9930 \fi
9931 \cals@vfillDrop\cals@paddingR}
9932 \renewcommand\alignR{%
9933 \if@RTLtab
9934 \cals@vfillDrop\cals@paddingL
9935 \else
9936 \cals@vfillAdd\cals@paddingL
9937 \fi
9938 \cals@vfillDrop\cals@paddingR}

```

68 File caption-xetex-bidi.def

```

9939 \ProvidesFile{caption-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for caption package f
9940 \let\@makecaption\caption@makecaption

```

69 File caption3-xetex-bidi.def

```

9941 \ProvidesFile{caption3-xetex-bidi.def}[2013/04/01 v0.1 bidi adaptations for caption3 package
9942 \renewcommand*\caption@par{%
9943 \parindent\caption@parindent\hangindent\if@RTL-\fi\caption@hangindent}%

```



70 File colortbl-xetex-bidi.def

```

9944 \ProvidesFile{colortbl-xetex-bidi.def}[2012/06/10 v0.2 bidi adaptations for colortbl package]
9945 \def\CT@setup{%
9946   \@tempdimb\col@sep
9947   \@tempdimc\col@sep
9948   \def\CT@color{%
9949     \global\let\CT@do@color\CT@@do@color
9950     \bidicolor}}
9951 \def\@classz{\@classx
9952   \@tempcnta \count@
9953   \prepnext@tok
9954 \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
9955   \@addtopreamble{\if@RTLtab\beginL\fi%
9956     \setbox\z@\hbox\bgroup\bgroup\if@RTLtab\beginR\fi
9957       \ifcase \@chnum
9958         \hskip\stretch{.5}\kern\z@
9959         \d@llarbegin
9960         \insert@column
9961         \d@llarend\hskip\stretch{.5}\or
9962         \d@llarbegin \insert@column \d@llarend \hfill \or
9963         \hfill\kern\z@ \d@llarbegin \insert@column \d@llarend \or
9964       $\vcenter
9965       \@startpbox{\@nextchar}\insert@column \@endpbox $\or
9966       \vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
9967       \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
9968     \fi
9969 \if@RTLtab\endR\fi\egroup\egroup
9970 \begingroup
9971   \CT@setup
9972   \CT@column@color
9973   \CT@row@color
9974   \CT@cell@color
9975   \CT@do@color
9976 \endgroup
9977   \@tempdima\ht\z@
9978   \advance\@tempdima\minrowclearance
9979   \vrule\@height\@tempdima\@width\z@
9980   \unhbox\z@\if@RTLtab\endL\fi}%
9981 \prepnext@tok}

```

71 File color-xetex-bidi.def

```

9982 \ProvidesFile{color-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for color package for Xe]
9983 \long\def\color@b@x#1#2#3{%
9984 \leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
9985 \setbox\z@\hbox{\kern\fbboxsep\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
9986 \dimen@ht\z@\advance\dimen@\fbboxsepht\z@\dimen@
9987 \dimen@dp\z@\advance\dimen@\fbboxsepdp\z@\dimen@
9988 {\#1{\#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}%
9989   \box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
9990 \def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi}
9991 \DeclareRobustCommand\color{%
9992   \ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor]}

```



```

9993 \def\@declaredcolor#1{%
9994   \ifundefined{\string\color @#1}%
9995     {\c@lor@error{`#1'}}%
9996     {\expandafter\let\expandafter\current@color
9997       \csname\string\color @#1\endcsname
9998       \set@color}%
9999   \ifhmode\ifRTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
10000 \def\@undeclaredcolor[#1]#2{%
10001   \ifundefined{color@#1}%
10002     {\c@lor@error{model `#1'}}%
10003     {\csname color@#1\endcsname\current@color{#2}%
10004       \set@color}%
10005   \ifhmode\ifRTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
10006 \DeclareRobustCommand\bidicolor{%
10007   \ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}
10008 \def\@bidiundeclaredcolor[#1]#2{%
10009   \ifundefined{color@#1}%
10010     {\c@lor@error{model `#1'}}%
10011     {\csname color@#1\endcsname\current@color{#2}%
10012       \set@color}%
10013   \ignorespaces}
10014 \def\@bidideclaredcolor#1{%
10015   \ifundefined{\string\color @#1}%
10016     {\c@lor@error{`#1'}}%
10017     {\expandafter\let\expandafter\current@color
10018       \csname\string\color @#1\endcsname
10019       \set@color}%
10020   \ignorespaces}
10021 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
10022 \def\color@fbox#1#2#3{%
10023   \color@b@x{\fboxsep\z@\bidicolor#1{#2}\fbox}{\bidicolor#1{#3}}}
10024 \def\color@setgroup{\begingroup\ifhmode\ifRTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmod

```

72 File combine-xetex-bidi.def

```

10025 \ProvidesFile{combine-xetex-bidi.def}[2011/09/23 v0.1 bidi adaptations for combine class for
10026 \renewcommand{\c@ll@chapsecii}[2]{%
10027   \ifRTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
10028   \ifRTL\hskip -\rightskip\else\hskip -\leftskip\fi
10029   #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
10030 }
10031 \renewcommand{\c@ll@chapseci}{%
10032   \setlength\@tempdima{0em}%
10033   \begingroup
10034     \parindent \z@ \ifRTL\leftskip\else\rightskip\fi \@pnumwidth
10035     \parfillskip -\@pnumwidth
10036     \leavevmode
10037   }
10038 \renewenvironment{tocindent}[1]{%
10039   \hangindent \ifRTL-\fi#1 \hangafter -100\relax}{%

```

73 File crop-xetex-bidi.def

```

10040 \ProvidesFile{crop-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for crop package for XeT

```



```

10041 \IfClassLoadedT{memoir}{\endinput}
10042 \RequirePackage{graphicx}
10043 \renewcommand*\CROP@ulc{%
10044   \if@RTLmain%
10045     \begin{picture}(0,0)
10046       \unitlength\p@\thinline
10047       \put(-40,0){\circle{10}}
10048       \put(-30,-5){\line(0,1){10}}
10049       \put(-35,0){\line(1,0){30}}
10050       \put(-10,30){\circle{10}}
10051       \put(-5,30){\line(1,0){10}}
10052       \put(0,35){\line(0,-1){30}}
10053     \end{picture}%
10054   \else%
10055     \begin{picture}(0,0)
10056       \unitlength\p@\thinline
10057       \put(-30,0){\circle{10}}
10058       \put(-30,-5){\line(0,1){10}}
10059       \put(-35,0){\line(1,0){30}}
10060       \put(0,30){\circle{10}}
10061       \put(-5,30){\line(1,0){10}}
10062       \put(0,35){\line(0,-1){30}}
10063     \end{picture}%
10064   \fi%
10065 }
10066 \renewcommand*\CROP@urc{%
10067   \if@RTLmain%
10068     \begin{picture}(0,0)
10069       \unitlength\p@\thinline
10070       \put(20,0){\circle{10}}
10071       \put(30,-5){\line(0,1){10}}
10072       \put(35,0){\line(-1,0){30}}
10073       \put(-10,30){\circle{10}}
10074       \put(-5,30){\line(1,0){10}}
10075       \put(0,35){\line(0,-1){30}}
10076     \end{picture}%
10077   \else%
10078     \begin{picture}(0,0)
10079       \unitlength\p@\thinline
10080       \put(30,0){\circle{10}}
10081       \put(30,-5){\line(0,1){10}}
10082       \put(35,0){\line(-1,0){30}}
10083       \put(0,30){\circle{10}}
10084       \put(-5,30){\line(1,0){10}}
10085       \put(0,35){\line(0,-1){30}}
10086     \end{picture}%
10087   \fi%
10088 }
10089 \renewcommand*\CROP@llc{%
10090   \if@RTLmain%
10091     \begin{picture}(0,0)
10092       \unitlength\p@\thinline
10093       \put(-40,0){\circle{10}}
10094       \put(-30,-5){\line(0,1){10}}

```



```

10095      \put(-35,0){\line(1,0){30}}
10096      \put(-10,-30){\circle{10}}
10097      \put(-5,-30){\line(1,0){10}}
10098      \put(0,-35){\line(0,1){30}}
10099      \end{picture}%
10100      \else%
10101      \begin{picture}(0,0)
10102        \unitlength\p@\thinline
10103        \put(-30,0){\circle{10}}
10104        \put(-30,-5){\line(0,1){10}}
10105        \put(-35,0){\line(1,0){30}}
10106        \put(0,-30){\circle{10}}
10107        \put(-5,-30){\line(1,0){10}}
10108        \put(0,-35){\line(0,1){30}}
10109      \end{picture}%
10110      \fi%
10111    }
10112    \renewcommand*\CROP@lrc{%
10113      \if@RTLmain%
10114        \begin{picture}(0,0)
10115          \unitlength\p@\thinline
10116          \put(20,0){\circle{10}}
10117          \put(30,-5){\line(0,1){10}}
10118          \put(35,0){\line(-1,0){30}}
10119          \put(-10,-30){\circle{10}}
10120          \put(-5,-30){\line(1,0){10}}
10121          \put(0,-35){\line(0,1){30}}
10122        \end{picture}%
10123      \else%
10124        \begin{picture}(0,0)
10125          \unitlength\p@\thinline
10126          \put(30,0){\circle{10}}
10127          \put(30,-5){\line(0,1){10}}
10128          \put(35,0){\line(-1,0){30}}
10129          \put(0,-30){\circle{10}}
10130          \put(-5,-30){\line(1,0){10}}
10131          \put(0,-35){\line(0,1){30}}
10132        \end{picture}%
10133      \fi%
10134    }
10135    \ifpackagewith{crop}{cam}{%
10136      \CROP@execopt{cam}%
10137    }{}

```

74 File cutwin-xetex-bidi.def

```

10138 \ProvidesFile{cutwin-xetex-bidi.def}[2011/11/12 v0.1 bidi adaptations for cutwin package for
10139 \renewcommand*\c@twcompctr[2]{%
10140   \def\c@twfirst{1}
10141   \loop\advance\c@twwinlines\m@ne
10142   \setbox\c@twslicea=\vsplit#1 to\baselineskip
10143   \setbox\c@twsliceb=\vsplit#1 to\baselineskip
10144   \c@twprune{\c@twslicea}{\c@twlftside}%
10145   \c@twprune{\c@twsliceb}{\c@twrtside}%

```



```

10146 \ifnum\c@twfirst=\@ne
10147   \setbox#2=\vbox{\unvbox#2\hbox
10148     to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\pageinwindow\hfil\if@RTL\box\c@tw
10149   \else
10150     \setbox#2=\vbox{\unvbox#2\hbox
10151       to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\box\c@tw
10152   \fi
10153   \def\c@twfirst{2}
10154   \ifnum\c@twinlines>\z@\repeat{
10155 \renewcommand*{\c@twcompoddctr}[2]{%
10156   \def\c@twrounds{1}
10157   \def\c@twfirst{1}
10158   \@for\c@twlspec:=\c@twb\do{%
10159     \ifnum\c@twrounds=1
10160       \setbox\c@twslicea=\vsplit#1 to\baselineskip % first of pair
10161       \c@twprune{\c@twslicea}{\c@twlspec}%
10162       \def\c@twrounds{2}
10163     \else
10164       \setbox\c@twsliceb=\vsplit#1 to\baselineskip % second of pair
10165       \c@twprune{\c@twsliceb}{\c@twlspec}%
10166       \ifnum\c@twfirst=1
10167         \setbox#2=\vbox{\unvbox#2\hbox
10168           to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\picinwindow\hfil\if@RTL\box\c@tw
10169         \def\c@twfirst{2}
10170       \else
10171         \setbox#2=\vbox{\unvbox#2\hbox
10172           to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\box\c@tw
10173       \fi
10174       \def\c@twrounds{1}
10175     \fi}}

```

75 File cuted-xetex-bidi.def

```

10176 \ProvidesFile{cuted-xetex-bidi.def}[2022/02/18 v0.7 bidi adaptations for cuted package for Xe
10177
10178 \def\RTL@outputdblcol{%
10179   \if@firstcolumn
10180     \global\@firstcolumnfalse
10181     \global\setbox\@leftcolumn\copy\@outputbox
10182     \splitmaxdepth\maxdimen
10183     \vbadness\maxdimen
10184     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10185     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10186     \toks@\expandafter{\topmark}%
10187     \xdef\@firstcoltopmark{\the\toks@}%
10188     \toks@\expandafter{\splitfirstmark}%
10189     \xdef\@firstcolfirstmark{\the\toks@}%
10190     \ifx\@firstcolfirstmark\@empty
10191       \global\let\@setmarks\relax
10192     \else
10193       \gdef\@setmarks{%
10194         \let\firstmark\@firstcolfirstmark
10195         \let\topmark\@firstcoltopmark}%
10196   \fi

```



```

10197 \else
10198   \global\@firstcolumntrue
10199   \setbox\@outputbox\vbox{%
10200     \hb@xt@\textwidth{%
10201       \hskip \columnwidth
10202       \hfil
10203       {\normalcolor\vrule \@width\columnseprule}%
10204       \hfil
10205       \hb@xt@\columnwidth{%
10206         \bidi@firstcolumn@status@write%
10207         \box\@leftcolumn \hss}%
10208       \hskip -\textwidth
10209       \hb@xt@\columnwidth{%
10210         \bidi@lastcolumn@status@write%
10211         \box\@outputbox \hss}%
10212       \hskip \columnsep
10213       \hskip \columnwidth }}%
10214   \ifvoid\hold@viper
10215   \else
10216     \setbox\@outputbox \vbox to\textheight{%
10217       \box\hold@viper
10218       \box\@outputbox
10219       \vss
10220     }%
10221   \fi
10222 \@@combinedblfloats
10223 \@@setmarks
10224 \@@outputpage
10225 \begin@group
10226 \@@dblfloatplacement
10227 \@@startdblcolumn
10228 \@@whilesw\if@fcolmade \fi{\@@outputpage
10229 \@@startdblcolumn}%
10230 \ifvoid\@viper
10231 \else
10232   \global\setbox\@viper\vbox{%
10233     \vskip-\stripsep
10234     \unvbox\@viper
10235   }%
10236   \@@viperoutput
10237 \fi
10238 \end@group
10239 \fi}%
10240
10241 \def\LTR@outputdblcol{%
10242   \if@firstcolumn
10243     \global\@firstcolumnfalse
10244     \global\setbox\@leftcolumn\copy\@outputbox
10245     \splitmaxdepth\maxdimen
10246     \vbadness\maxdimen
10247     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10248     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10249     \toks@{\expandafter{\topmark}}%
10250     \xdef\@firstcoltopmark{\the\toks@}%

```



```

10251 \toks@\expandafter{\splitfirstmark}%
10252 \xdef\@firstcolfirstmark{\the\toks@}%
10253 \ifx\@firstcolfirstmark\@empty
10254 \global\let\@setmarks\relax
10255 \else
10256 \gdef\@setmarks{%
10257 \let\firstmark\@firstcolfirstmark
10258 \let\topmark\@firstcoltopmark}%
10259 \fi
10260 \else
10261 \global\@firstcolumntrue
10262 \setbox\@outputbox\vbox{%
10263 \hb@xt@\textwidth{%
10264 \hb@xt@\columnwidth{%
10265 \bidi@firstcolumn@status@write%
10266 \box\@leftcolumn \hss}%
10267 \hfil
10268 {\normalcolor\vrule \@width\columnseprule}%
10269 \hfil
10270 \hb@xt@\columnwidth{%
10271 \bidi@lastcolumn@status@write%
10272 \box\@outputbox \hss}}}%
10273 \ifvoid\hold@viper
10274 \else
10275 \setbox\@outputbox \vbox to\textheight{%
10276 \box\hold@viper
10277 \box\@outputbox
10278 \vss
10279 }%
10280 \fi
10281 \@combinedblfloats
10282 \@setmarks
10283 \@outputpage
10284 \begingroup
10285 \@dblfloatplacement
10286 \@startdblcolumn
10287 \@whiles\if@fcolmade \fi{\@outputpage
10288 \@startdblcolumn}%
10289 \ifvoid\@viper
10290 \else
10291 \global\setbox\@viper\vbox{%
10292 \vskip-\stripsep
10293 \unvbox\@viper
10294 }%
10295 \@viperoutput
10296 \fi
10297 \endgroup
10298 \fi}%
10299
10300 \def\@addviper{%
10301 \insertfalse
10302 \def\var@@thecol@num{2}%
10303 \if@firstcolumn
10304 \def\var@@thecol@num{1}%

```




```

10305      \@reqcolroom=.5\@pageht
10306      \ht@viper=\@reqcolroom
10307      \advance\@reqcolroom by\ht\@viper
10308      \advance\@reqcolroom by\stripsep
10309    \else
10310      \@reqcolroom=\@colht
10311      \advance\@reqcolroom by\@pageht
10312      \ht@viper.5\@reqcolroom
10313      \@reqcolroom=\ht@viper
10314      \advance\@reqcolroom by\ht\@viper
10315      \advance\@reqcolroom by\stripsep
10316      \global\setbox\@holdpg\vbox{%
10317        \setbox\cuted@@tempbox@a\vbox{%
10318          \aftergroup\unvbox
10319          \unvcopy\@leftcolumn
10320          \unskip\unkern\unpenalty
10321          \setbox\@tempbox@lastbox
10322          \ifdim\dimexpr\ht\@tempbox@+wd\@tempbox@+dp\@tempbox@>\z@
10323            %% keeps lastbox
10324            \aftergroup\@leftcolumn
10325          \else
10326            %% removes lastbox
10327            \aftergroup\cuted@@tempbox@a
10328          \fi
10329        }%
10330        \unskip\unkern\unpenalty
10331        \on@stripcols@break
10332        \the\At@ViperColsBreak
10333        \unvbox\@holdpg
10334      }%
10335      \global\At@ViperColsBreak{}%
10336      \ht@viper=.5\ht\@holdpg
10337      \ifdim\ht@viper>\@colht
10338        \ht@viper=\@colht
10339      \fi
10340    \fi
10341    %%
10342    %% calculations for breaking
10343    %%
10344    \ifvoid\hold@viper
10345      \ht@hold@viper=\z@
10346    \else
10347      \ht@hold@viper=\ht\hold@viper
10348    \fi
10349    \cuted@@tempdim@b\ht@viper
10350    \set@split@topskip@to@topskip
10351    \loop
10352      \xdef\saved@tempdim@b{\the\cuted@@tempdim@b}%
10353      \setbox\cuted@@varbox@a\copy\@holdpg
10354      \setbox\cuted@@tempbox@a\vsplit\cuted@@varbox@a to\cuted@@tempdim@b
10355      %% set leftcolumn boxes
10356      \setbox\cuted@@tempbox@c\vbox{\unvbox\cuted@@tempbox@a}%
10357      \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{\unvcopy\cuted@@tempbox@c}%
10358      \xdef\var@@leftcolumn@badness{\the\badness}%

```



```

10359 %% set rightcolumn boxes
10360 \setbox\cuted@@varbox@c\vbox{\unvbox\cuted@@varbox@a}%
10361 \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{\unvcopy\cuted@@varbox@c}%
10362 \xdef\var@@rightcolumn@badness{\the\badness}%
10363 %% analyzing split goodness
10364 \cuted@@tempdim@spread=\ht\cuted@@tempbox@c
10365 \advance\cuted@@tempdim@spread by\dp\cuted@@tempbox@c
10366 \advance\cuted@@tempdim@spread by-\ht\cuted@@varbox@c
10367 \advance\cuted@@tempdim@spread by-\dp\cuted@@varbox@c
10368 \cuted@@wlog@debug{CUTED [----]}%
10369 ^^JLeft: \the\ht\cuted@@tempbox@c
10370 +\the\dp\cuted@@tempbox@c\space/\var@@leftcolumn@badness
10371 ^^JRight: \the\ht\cuted@@varbox@c
10372 +\the\dp\cuted@@varbox@c\space/\var@@rightcolumn@badness
10373 ^^JSplit: \the\cuted@@tempdim@b
10374 ^^JExtra height: \the\cuted@@tempdim@spread
10375 }%
10376 \ifnum\var@@leftcolumn@badness<\cuted@@column@badness
10377 \ifnum\var@@rightcolumn@badness<\cuted@@column@badness
10378 \cuted@@tempdim@spread=\z@
10379 \fi
10380 \fi
10381 \ifdim\cuted@@tempdim@spread<\z@
10382 \if@left@column@spread
10383 \if@right@column@shrink
10384 \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink>\z@
10385 \cuted@@tempdim@a=\dimexpr\ht\cuted@@tempbox@c-0.5\cuted@@tempdim@spread
10386 \else
10387 \cuted@@tempdim@a=-\dimexpr\cuted@@tempdim@spread+.5\pageshrink\rel
10388 \fi
10389 \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@tempbox@c}
10390 \ifnum\badness<\cuted@@column@badness
10391 \cuted@@tempdim@b=\cuted@@tempdim@a
10392 \cuted@@tempdim@spread=\z@
10393 \fi
10394 \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness\space on }
10395 \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@varbox@c}
10396 \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness\space on }
10397 \else
10398 \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{\unvcopy\cuted@@tempbox@c}
10399 \fi
10400 \fi
10401 \ifnum\badness<\cuted@@column@badness
10402 \cuted@@tempdim@b=\ht\cuted@@varbox@c
10403 \cuted@@tempdim@spread=\z@
10404 \fi
10405 \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness on \the\ht}
10406 \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{\unvcopy\cuted@@varbox@c}
10407 \fi
10408 \fi
10409 \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness on \the\ht}
10410 \fi
10411 \else
10412 \if@right@column@shrink

```



```

10413             \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink<\z@
10414             \else
10415                 \cuted@@tempdim@b=\ht\cuted@@tempbox@c
10416                 \cuted@@tempdim@spread=\z@
10417             \fi
10418         \fi
10419     \fi
10420 \else
10421     \ifdim\cuted@@tempdim@spread>\z@
10422         \ifdim\dimexpr\@tempdimb+\p@\relax>\@colht
10423             \cuted@@tempdim@b=\@colht
10424             \cuted@@tempdim@spread=\z@
10425         \fi
10426     \fi
10427 \fi
10428 \ifdim\cuted@@tempdim@spread<\z@
10429     \advance\cuted@@tempdim@b 1\p@
10430 \repeat
10431 \wlog{CUTED [- LAST -]%
10432     ^^JExtra skip:\the\cuted@@tempdim@spread
10433     ^^JLeft:\the\ht\cuted@@tempbox@c/\the\dp\cuted@@tempbox@c
10434     ^^JRight:\the\ht\cuted@@varbox@c/\the\dp\cuted@@varbox@c
10435     ^^JSplit: \saved@tempdimb
10436     ^^JOutput:\the\cuted@@tempdim@b
10437     ^^JPageshrink: \the\pageshrink
10438     ^^JPagestretch: \the\pagestretch
10439     ^^J@colht:\the\@colht
10440 }%
10441 %%
10442 %% final construction of the cuted page above strip
10443 %%
10444 \setbox\cuted@@tempbox@c\vsplit\@holdpg to\saved@tempdimb
10445 \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{%
10446     \cuted@@tempdim@a=\dimexpr
10447         \cuted@@tempdim@b-\ht\cuted@@tempbox@c
10448         \relax
10449     \cuted@@tempdim@spread=\dp\cuted@@tempbox@c
10450     \unvbox\cuted@@tempbox@c
10451     \ifdim\cuted@@tempdim@spread>\dp\strutbox
10452     \else
10453         \vskip-\cuted@@tempdim@spread
10454     \fi
10455     \prevdepth\z@
10456     \hrule\@height\cuted@@page@rule width\textwidth
10457     \vskip-\cuted@@page@rule
10458     \ifdim\cuted@@tempdim@a>\z@
10459         \if@left@column@spread
10460             \else
10461                 \vss
10462             \fi
10463         \else
10464             \ifdim\cuted@@tempdim@a<\z@
10465                 \if@left@column@shrink
10466                 \else

```



```

10467             \vss
10468         \fi
10469     \fi
10470 \fi
10471 }%
10472 \wlog{CUTED [output]: \the\cuted@@tempdim@b
10473 ~^JCUTED [leftcolumn badness]: \number\badness
10474 }%
10475 \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{%
10476     \cuted@@tempdim@a=\dimexpr
10477         \cuted@@tempdim@b-\ht\@holdpg
10478     \relax
10479     \unvbox\@holdpg
10480     \ifdim\cuted@@tempdim@a>\z@
10481         \if@right@column@spread
10482     \else
10483         \vss
10484     \fi
10485 \else
10486     \ifdim\cuted@@tempdim@a<\z@
10487         \if@right@column@shrink
10488     \else
10489         \vss
10490     \fi
10491 \fi
10492 \fi
10493 }%
10494 \wlog{CUTED [rightcolumn badness]: \number\badness}%
10495 \setbox\cuted@@tempbox@var\vbox{%
10496     \hb@xt@\textwidth{%
10497         \if@RTLmain
10498             \hskip \columnwidth
10499             \hfil
10500             {\normalcolor\vrule \@width\columnseprule}%
10501             \hfil
10502             \hb@xt@\columnwidth{%
10503                 \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10504                 \hss
10505             }%
10506             \hskip -\textwidth
10507             \hb@xt@\columnwidth{%
10508                 \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10509                 \hss
10510             }%
10511             \hskip \columnsep
10512             \hskip \columnwidth
10513         \else
10514             \hb@xt@\columnwidth{%
10515                 \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10516                 \hss
10517             }%
10518             \hfil
10519             {\normalcolor\vrule \@width\columnseprule}%
10520             \hfil

```



```

10521         \hb@xt@\columnwidth{%
10522             \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10523             \hss
10524         }%
10525     \fi
10526 }%
10527 }%
10528 %%
10529 %% finalize cuted page
10530 %%
10531 \ifvoid\hold@viper
10532     \global\setbox\hold@viper\vbox{%
10533         \unvbox\cuted@@tempbox@var
10534         \penalty\interlinepenalty
10535         \vskip\stripsep
10536         \the\preCutedStrip
10537         \ifnum\outputpenalty<-\@Mii
10538             \vskip -\parskip
10539         \fi
10540         \outputpenalty\z@
10541     }%
10542 \else
10543     \global\setbox\hold@viper\vbox{%
10544         \unvbox\hold@viper
10545         \cuted@@tempbox@var
10546         \penalty\interlinepenalty
10547         \vskip\stripsep
10548         \the\preCutedStrip
10549         \ifnum\outputpenalty<-\@Mii
10550             \vskip -\parskip
10551         \fi
10552         \outputpenalty\z@
10553     }%
10554 \fi
10555 \ifdim\@colht>\@reqcolroom
10556     \global\setbox\hold@viper\vbox{%
10557         \unvbox\hold@viper
10558         \box\@viper
10559         \penalty\interlinepenalty
10560         \the\postCutedStrip
10561         \vskip\stripsep
10562         \ifnum\outputpenalty<-\@Mii
10563             \vskip -\parskip
10564         \fi
10565         \outputpenalty\z@
10566     }%
10567     \@inserttrue
10568     \global\@firstcolumntrue
10569     \advance\ht@hold@viper by-\ht\hold@viper
10570     \global\advance\@colht by\ht@hold@viper
10571     \ifdim\@colht<2.5\baselineskip
10572         \@latex@warning@no@line {Optional argument of \noexpand\twocolumn
10573             too tall on page \thepage (\var@@thecol@num column)}}%
10574     \emptycol

```



```

10575         \if@firstcolumn
10576         \else
10577             \@emptycol
10578         \fi
10579         \global\@lastvipertrue
10580     \else
10581         \global\ysize\@colht
10582         \global\@colroom\@colht
10583         \check@floats\cuted@@tempdim@a
10584         \ifdim\cuted@@tempdim@a>\z@
10585             \global\advance\@colroom by-\cuted@@tempdim@a
10586         \fi
10587         \ifdim\@colroom<\z@
10588             \global\@colroom1\p@
10589             \ifdim\cuted@@tempdim@a>\@colht
10590                 \@latex@warning@no@line{TOP and/or BOT FLOAT's
10591                     to large on \thepage (\var@@thecol@num column)}%
10592             \fi
10593             \@emptycol
10594             \if@firstcolumn
10595             \else
10596                 \@emptycol
10597             \fi
10598             \global\@lastvipertrue
10599         \fi
10600     \fi
10601 \fi
10602 \if@insert
10603 \else
10604     \advance\ht@hold@viper by-\ht@hold@viper
10605     \global\advance\@colht by\ht@hold@viper
10606     \global\setbox\hold@viper\ vbox{%
10607         \unvbox\hold@viper
10608         \set@split@topskip@to{\z@ plus2\p@}%
10609         \vsplit\@viper to\@colht
10610         \vss
10611     }%
10612     \vbox{}%
10613     \global\@firstcolumnfalse
10614     \newpage
10615 \fi
10616 }

```

76 File cvthemebidicasual.sty

```

10617 \NeedsTeXFormat{LaTeX2e}
10618 \ProvidesPackage{cvthemebidicasual}
10619 \DeclareOption{blue}{}
10620 \newif\if@colourorange\@colourorangefalse
10621 \DeclareOption{orange}{\@colourorangetrue}
10622 \newif\if@colourgreen\@colourgreenfalse
10623 \DeclareOption{green}{\@colourgreentrue}
10624 \newif\if@colourred\@colourredfalse
10625 \DeclareOption{red}{\@colourredtrue}

```



```

10626 \newif\if@colourgrey\@colourgreyfalse
10627 \DeclareOption{grey}{\@colourgreytrue}
10628 \DeclareOption*{
10629   \PackageWarning{cvthemebidicasual}{Unknown option ‘\CurrentOption’}}
10630 \ExecuteOptions{colour}
10631 \ProcessOptions\relax
10632 \renewcommand*{\listitemsymbol}{\textbullet}
10633 \definecolor{firstnamecolor}{rgb}{0.65,0.65,0.65}
10634 \familynamecolour{808080}
10635 \firstnamecolour{A9A9A9}
10636 \quotecolour{696969}
10637 \addresscolour{696969}
10638 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.50,0.75}
10639 \sectiontitlecolour{1E90FF}
10640 \subsectioncolour{4682B4}
10641 \definecolor{rulecolour}{gray}{0.6}
10642 \definecolor{footersymbolcolour}{rgb}{0.25,0.50,0.75}
10643 \definecolor{footersymbolcolor}{rgb}{0.25,0.50,0.75}
10644 \if@colourorange
10645   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10646   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
10647   \sectiontitlecolour{FF8C00}
10648   \subsectioncolour{FF8C00}
10649   \definecolor{footersymbolcolour}{rgb}{0.95,0.55,0.15}
10650   \definecolor{footersymbolcolor}{rgb}{0.95,0.55,0.15}\fi
10651 \if@colourgreen
10652   \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10653   \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10654   \sectiontitlecolour{008000}
10655   \subsectioncolour{008000}
10656   \definecolor{footersymbolcolour}{rgb}{0.30,0.65,0.15}
10657   \definecolor{footersymbolcolor}{rgb}{0.30,0.65,0.15}\fi
10658 \if@colourred
10659   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10660   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10661   \sectiontitlecolour{FF0000}
10662   \subsectioncolour{FF0000}
10663   \definecolor{footersymbolcolour}{rgb}{0.95,0.20,0.20}
10664   \definecolor{footersymbolcolor}{rgb}{0.95,0.20,0.20}\fi
10665 \if@colourgrey
10666   \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10667   \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10668   \sectiontitlecolour{808080}
10669   \subsectioncolour{808080}
10670   \definecolor{footersymbolcolour}{rgb}{0.35,0.35,0.35}
10671   \definecolor{footersymbolcolor}{rgb}{0.35,0.35,0.35}\fi
10672 \renewcommand*{\ttdefault}{pcr}
10673 \renewcommand*{\firstnamefont}{\fontsize{38}{40}\mdseries\upshape}
10674 \renewcommand*{\familynamefont}{\firstnamefont}
10675 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10676 \renewcommand*{\quoteont}{\large\slshape}
10677 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10678 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10679 \renewcommand*{\maketitle}{%

```



```

10680 {%
10681   \ifthenelse{\isundefined{\@photo}}{%
10682     {}%
10683     {\color{firstnamecolor}\framebox{\includegraphics[width=\@photowidth]{\@photo}}}%
10684     \hfill%
10685     \bidi@raggedleft{\firstnamestyle{\@firstname}~\familynamestyle{\@familyname}}\[-.35em]}%
10686     {\color{firstnamecolor}\rule{\textwidth}{.25ex}\[2.5em]}%
10687   \ifthenelse{\isundefined{\@quote}}{%
10688     {}%
10689     {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\%
10690   }%
10691   \newif\if@firstfooterelement\@firstfooterelementtrue
10692   \providecommand*{\footersymbol}{}
10693   \renewcommand*{\footersymbol}{%
10694     \if@firstfooterelement%
10695     \else%
10696       { ~\color{footersymbolcolor}\textbullet~~}\fi}
10697   \providecommand*{\makefooter}{}
10698   \renewcommand*{\makefooter}{%
10699     \fancypagestyle{plain}{%
10700       \fancyfoot[c]{%
10701         \parbox{0.8\textwidth}{%
10702           \centering%
10703           \addressfont\@addresscolour%
10704           \ifthenelse{\isundefined{\@address}}{}{%
10705             \addresssymbol~\@address\\%
10706             \@firstfooterelementfalse}%
10707           \ifthenelse{\isundefined{\@mobile}}{}{\mobilesymbol~\@mobile\@firstfooterelementfalse}%
10708           \ifthenelse{\isundefined{\@phone}}{}{\footersymbol\phonesymbol~\@phone\@firstfooterelementfalse}%
10709           \ifthenelse{\isundefined{\@fax}}{}{\footersymbol\faxsymbol~\@fax\@firstfooterelementfalse}%
10710           \ifthenelse{\isundefined{\@email}}{}{\footersymbol\emailsymbol~\emailink{\@email}\@firstfooterelementfalse}%
10711           \ifthenelse{\isundefined{\@extrainfo}}{}{\footersymbol\@extrainfo\@firstfooterelementfalse}%
10712         }%
10713       \pagestyle{plain}}
10714   \AtBeginDocument{\makefooter}

```

77 File cvthemebidiclassic.sty

```

10715 \NeedsTeXFormat{LaTeX2e}
10716 \ProvidesPackage{cvthemebidiclassic}
10717 \DeclareOption{blue}{}
10718 \newif\if@colourorange\@colourorangefalse
10719 \DeclareOption{orange}{\@colourorangetrue}
10720 \newif\if@colourgreen\@colourgreenfalse
10721 \DeclareOption{green}{\@colourgreentrue}
10722 \newif\if@colourred\@colourreddfalse
10723 \DeclareOption{red}{\@colourredtrue}
10724 \newif\if@colourgrey\@colourgreyfalse
10725 \DeclareOption{grey}{\@colourgreytrue}
10726 \DeclareOption*{
10727   \PackageWarning{cvthemebidiclassic}{Unknown option ‘\CurrentOption’}}
10728 \ExecuteOptions{colour}
10729 \ProcessOptions\relax
10730 \renewcommand*{\listitemsymbol}{\textbullet}

```




```

10731 \firstnamecolour{}
10732 \familynamecolour{}
10733 \titlecolour{808080}
10734 \quotecolour{696969}
10735 \addresscolour{696969}
10736 \definecolor{sectionrectanglecolour}{rgb}{0.25,0.50,0.75}
10737 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.5,0.75}
10738 \sectiontitlecolour{1E90FF}
10739 \subsectioncolour{4682B4}
10740 \if@colourorange
10741   \addresscolour{FF8C00}
10742   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
10743   \definecolor{sectionrectanglecolor}{rgb}{1,0.65,0.20}
10744   \sectiontitlecolour{FF8C00}
10745   \subsectioncolour{FF8C00}\fi
10746 \if@colourgreen
10747   \addresscolour{008000}
10748   \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10749   \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10750   \sectiontitlecolour{008000}
10751   \subsectioncolour{008000}\fi
10752 \if@colourred
10753   \addresscolour{FF0000}
10754   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10755   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10756   \sectiontitlecolour{FF0000}
10757   \subsectioncolour{FF0000}\fi
10758 \if@colourgrey
10759   \addresscolour{808080}
10760   \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10761   \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10762   \sectiontitlecolour{808080}
10763   \subsectioncolour{808080}\fi
10764 \renewcommand*{\ttdefault}{pcr}
10765 \renewcommand*{\firstnamefont}{\fontsize{34}{36}\mdseries\upshape}
10766 \renewcommand*{\titlefont}{\LARGE\mdseries\slshape}
10767 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10768 \renewcommand*{\familynamefont}{\firstnamefont}
10769 \renewcommand*{\quotefont}{\large\slshape}
10770 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10771 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10772 \newlength{\maketitlenamemaxwidth}
10773 \setlength{\maketitlenamemaxwidth}{.525\textwidth}
10774 \newlength{\maketitlenamefullwidth}
10775 \settowidth{\maketitlenamefullwidth}{\firstnamestyle{\@firstname~}\familynamestyle{\@familyname}}
10776 \newlength{\maketitlenamewidth}
10777 \ifnum\maketitlenamemaxwidth<\maketitlenamefullwidth\setlength{\maketitlenamewidth}{\maketitlenamemaxwidth}\fi
10778 \newlength{\maketitlepicturewidth}
10779 \setlength{\maketitlepicturewidth}{\@photowidth}
10780 \newlength{\maketitledetailwidth}
10781 \renewcommand*{\recomputethemelengths}{%
10782   \setlength{\maketitledetailwidth}{\textwidth}%
10783   \addtolength{\maketitledetailwidth}{-\maketitlenamewidth}%
10784   \addtolength{\maketitledetailwidth}{-\separatorcolumnwidth}%

```



```

10785 \addtolength{\maketitledetailswidth}{-\maketitlepicturewidth}}
10786 \recomputethemelengths
10787 \newif\if@firstdetailselement\@firstdetailselementtrue
10788 \newcommand*{\maketitledetailsnewline}{
10789   \if@firstdetailselement%
10790     \@firstdetailselementfalse%
10791   \else%
10792     \[.2em]\fi}
10793 \renewcommand*{\maketitle}{%
10794   % name and title
10795   \begin{minipage}[b]{\maketitlenamewidth}%
10796     \firstnamestyle{\@firstname~}\familynamestyle{\@familyname}%
10797     \ifthenelse{\equal{\@title}{}}{\}\{\}\[1.25em]\titlestyle{\@title}}%
10798   \end{minipage}%
10799   % optional data
10800   \begin{minipage}[b]{\maketitledetailswidth}%
10801     \bidi@raggedleft\addressfont\addresscolour%
10802     \ifthenelse{\isundefined{\@address}}{\}\{\}%
10803     \maketitledetailsnewline%
10804     \addresssymbol~\@address}%
10805     \ifthenelse{\isundefined{\@mobile}}{\}\{\maketitledetailsnewline\mobilesymbol~\@mobile}%
10806     \ifthenelse{\isundefined{\@phone}}{\}\{\maketitledetailsnewline\phonesymbol~\@phone}%
10807     \ifthenelse{\isundefined{\@fax}}{\}\{\maketitledetailsnewline\faxsymbol~\@fax}%
10808     \ifthenelse{\isundefined{\@email}}{\}\{\maketitledetailsnewline\emailsymbol~\emailink{\@e
10809     \ifthenelse{\isundefined{\@extrainfo}}{\}\{\maketitledetailsnewline\@extrainfo}%
10810   \end{minipage}%
10811   % optional photo
10812   \ifthenelse{\isundefined{\@photo}}{\}\{\%
10813     {\hspace*{\separatorcolumnwidth}\color{firstnamecolor}\framebox{\includegraphics[width=
10814   % optional quote
10815   \ifthenelse{\isundefined{\@quote}}{\}\{\%
10816     {\centering\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\}
10817   \}
10818   }
10819 }

```

78 File dblfnote-xetex-bidi.def

```

10820 \ProvidesFile{dblfnote-xetex-bidi.def}[2012/12/12 v0.3 bidi adaptations for dblfnote package]
10821 \let\autofootnoterule\relax
10822 \let\rightfootnoterule\relax
10823 \let\leftfootnoterule\relax
10824 \let\textwidthfootnoterule\relax
10825 \let\LRfootnoterule\relax
10826 \def\footnoterule{\kern-3\p@
10827   \hrule \@width \DFNcolumnwidth \kern 2.6\p@}%
10828 \AtBeginDocument{\let\dfn@latex@footnotetext\@footnotetext
10829 \let\@footnotetext\dfn@footnotetext}
10830 \long\def\dfn@LTRfootnotetext#1{\setbox\dfn@boxa\vbox{
10831   \let\insert\dfn@gobble
10832   \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10833   \def\@makefnmark{\smash{\dfn@makefnmark}}
10834   \dfn@latex@LTRfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10835   \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa

```



```

10836 \ifdim\dfn@dima>\z@\else
10837 \dfn@dima\isp\relax
10838 \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10839 \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10840 \ifvoid\dfn@ins\else
10841 \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10842 \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10843 \setbox\dfn@boxa\copy\dfn@ins
10844 \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10845 \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10846 \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10847 \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10848 \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10849 \AtBeginDocument{\let\dfn@latex\LTRfootnotetext\@LTRfootnotetext
10850 \let\@LTRfootnotetext\dfn\LTRfootnotetext}
10851 \long\def\dfn@RTLfootnotetext#1{{\setbox\dfn@boxa\vbox{
10852 \let\insert\dfn@gobble
10853 \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10854 \def\@makefnmark{\smash{\dfn@makefnmark}}
10855 \dfn@latex@RTLfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10856 \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10857 \ifdim\dfn@dima>\z@\else
10858 \dfn@dima\isp\relax
10859 \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10860 \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10861 \ifvoid\dfn@ins\else
10862 \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10863 \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10864 \setbox\dfn@boxa\copy\dfn@ins
10865 \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10866 \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10867 \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10868 \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10869 \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10870 \AtBeginDocument{\let\dfn@latex@RTLfootnotetext\@RTLfootnotetext
10871 \let\@RTLfootnotetext\dfn@RTLfootnotetext}
10872 \def\dfn@RTLmakecol{{\ifvoid\footins\else
10873 \dfn@dima\ht\footins
10874 \@tempcnta\z@ \dfn@countins
10875 \@tempdima\z@ \let\@elt\dfn@elt@getht
10876 \dfn@list\@nil
10877 \ifdim\@tempdima=\z@\else
10878 \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10879 \global\setbox\dfn@ins\box\dfn@ins
10880 \@tempswatrue
10881 \ifdfn@trysingle
10882 \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10883 \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10884 \advance\@tempdima\skip\footins
10885 \advance\@tempdima-\ht\dfn@boxa
10886 \ifdim\@tempdima<\z@\else \@tempswafalse
10887 \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10888 \footnoterule \unvbox\dfn@boxa}\fi\fi
10889 \if@tempswa

```



```

10890 \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10891 \global\setbox\footins\vbox{\hbox{%
10892     \hskip \DFNcolumnwidth
10893     \hskip\DFNcolumnsep
10894     \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10895         \unvbox\dfn@boxb\vss}\hss}
10896     \hskip -\textwidth
10897     \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10898         \vbox to\@tempdima{
10899             \setbox\@tempboxa\vbox{\footnoterule}
10900             \ifdfn@ruleboth \unvbox\@tempboxa
10901             \else \@tempdima\ht\@tempboxa
10902                 \advance\@tempdima\dp\@tempboxa
10903                 \vskip\@tempdima
10904                 \prevdepth\dp\@tempboxa \fi
10905             \unvbox\dfn@boxa\vss}\fi\hss}
10906             \hskip \DFNcolumnsep
10907             \hskip \DFNcolumnwidth}}\fi\fi
10908 \global\dfn@fnht\z@
10909 \ifx\dfn@list\@empty\else
10910     \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
10911     \dfn@list \global\advance\dfn@fnht\dfn@dimb
10912     \let\@elt\relax
10913     \ifdim\dfn@dimb>\z@
10914         \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10915         \insert\footins{\floatingpenalty\@MM
10916             \vbox to\dfn@dimb{}}\fi
10917     \ifdim\dfn@fnht>\@tempdima
10918         \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10919         \global\dfn@fnht\@tempdima
10920         \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
10921         \xdef\dfn@afteroutput{\insert\footins{
10922             \floatingpenalty\@MM
10923             \vbox to\number\@tempdimb sp{}}}%
10924         \global\let\noexpand\dfn@afteroutput\relax}%
10925     \fi\fi
10926 \fi}%
10927 \let\footnoterule\relax \dfn@latex@makecol
10928 \let\footnoterule\dfn@footnoterule}
10929 \def\dfn@LTRmakecol{\ifvoid\footins\else
10930     \dfn@dima\ht\footins
10931     \@tempcnta\z@ \dfn@countins
10932     \@tempdima\z@ \let\@elt\dfn@elt@getht
10933     \dfn@list\@nil
10934     \ifdim\@tempdima=\z@\else
10935         \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10936         \global\setbox\dfn@ins\box\dfn@ins
10937         \@tempswatrue
10938         \ifdfn@trysingle
10939             \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10940             \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10941             \advance\@tempdima-\skip\footins
10942             \advance\@tempdima-\ht\dfn@boxa
10943             \ifdim\@tempdima<\z@\else \@tempswafalse

```



```

10944 \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10945 \footnoterule \unvbox\dfn@boxa}\fi\fi
10946 \if@tempswa
10947 \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10948 \global\setbox\footins\vbox{\hbox{%
10949 \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10950 \unvbox\dfn@boxb\vss}\hss}\hskip\DFNcolumnsep
10951 \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10952 \vbox to\@tempdima{
10953 \setbox\@tempboxa\vbox{\footnoterule}
10954 \ifdfn@ruleboth \unvbox\@tempboxa
10955 \else \@tempdima\ht\@tempboxa
10956 \advance\@tempdima\dp\@tempboxa
10957 \vskip\@tempdima
10958 \prevdepth\dp\@tempboxa \fi
10959 \unvbox\dfn@boxa\vss}\fi\hss}}}\fi\fi
10960 \global\dfn@fnht\z@
10961 \ifx\dfn@list\@empty\else
10962 \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
10963 \dfn@list \global\advance\dfn@fnht\dfn@dimb
10964 \let\@elt\relax
10965 \ifdim\dfn@dimb>\z@
10966 \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10967 \insert\footins{\floatingpenalty\@MM
10968 \vbox to\dfn@dimb{}}\fi
10969 \ifdim\dfn@fnht>\@tempdima
10970 \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10971 \global\dfn@fnht\@tempdima
10972 \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
10973 \xdef\dfn@afteroutput{\insert\footins{
10974 \floatingpenalty\@MM
10975 \vbox to\number\@tempdimb sp{}}}%
10976 \global\let\noexpand\dfn@afteroutput\relax}%
10977 \fi\fi
10978 \fi}%
10979 \let\footnoterule\relax \dfn@latex@makecol
10980 \let\footnoterule\dfn@footnoterule}
10981 \renewcommand{\dfn@makecol}{\if@RTLmain\dfn@RTLmakecol\else\dfn@LTRmakecol\fi}
10982 \newcommand{\RTLdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@RTLmakecol}}
10983 \newcommand{\LTRdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@LTRmakecol}}
10984 \DFNalwaysdouble

```

79 File diagbox-xetex-bidi.def

```

10985 \ProvidesFile{diagbox-xetex-bidi.def}[2017/12/30 v0.2 bidi adaptations for diagbox package f
10986 \bidi@patchcmd{\diagbox@double}{%
10987 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10988 }{\bidi@@diagbox@double@ii}{-}{-}
10989 \bidi@patchcmd{\diagbox@double}{%
10990 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
10991 }{\bidi@@diagbox@double@iii}{-}{-}
10992 \newcommand*{\bidi@@diagbox@double@ii}{%
10993 \ifRTL
10994 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepl}}}

```



```

10995 \else
10996 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10997 \fi
10998 }
10999 \newcommand*{\bidi@@diagbox@double@iii}{%
11000 \if@RTL
11001 \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
11002 \else
11003 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}
11004 \fi
11005 }
11006 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
11007 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11008 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
11009 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
11010 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11011 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
11012 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
11013 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}
11014 }{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{-}{-}
11015 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{%
11016 \if@RTL
11017 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepl}}}
11018 \else
11019 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11020 \fi}
11021 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{%
11022 \if@RTL
11023 \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
11024 \else
11025 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}
11026 \fi}
11027 \let\diagbox@triple@setbox@SW\diagbox@triple@setbox@NW
11028 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11029 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}%
11030 }{\bidi@@diagbox@triple@setbox@SE@tabular@i}{-}{-}
11031 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11032 \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
11033 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
11034 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11035 \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
11036 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
11037 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@i}{%
11038 \if@RTL
11039 \begin{tabular}{@{}r@{\hspace{\diagbox@insepl}}}
11040 \else
11041 \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}
11042 \fi
11043 }
11044 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{%
11045 \if@RTL
11046 \begin{tabular}{@{\hspace{\diagbox@insepr}}l@{}}
11047 \else
11048 \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}

```



```

11049 \fi
11050 }
11051 \let\diagbox@triple@setbox@NE\diagbox@triple@setbox@SE
11052 \bidi@patchcmd{\diagbox@double@pict@SE}{%
11053   \diagbox@setlinecolor
11054   \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)}%
11055 }{%
11056   {\diagbox@setlinecolor
11057     \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)}}%
11058 }{}{}
11059 \let\diagbox@double@pict@NW\diagbox@double@pict@SE
11060 \bidi@patchcmd{\diagbox@double@pict@NE}{%
11061   \diagbox@setlinecolor
11062   \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)}%
11063 }{%
11064   {\diagbox@setlinecolor
11065     \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)}}%
11066 }{}{}
11067 \let\diagbox@double@pict@SW\diagbox@double@pict@NE
11068 \bidi@patchcmd{\diagbox@triple@pict@NW}{%
11069   \diagbox@setlinecolor
11070   \Line(0,\yym)(\x,0)
11071   \Line(\xm,\y)(\x,0)}%
11072 }{%
11073   {\diagbox@setlinecolor
11074     \Line(0,\yym)(\x,0)
11075     \Line(\xm,\y)(\x,0)}}%
11076 }{}{}
11077 \bidi@patchcmd{\diagbox@triple@pict@NE}{%
11078   \diagbox@setlinecolor
11079   \Line(0,0)(\xxm,\y)
11080   \Line(0,0)(\x,\yym)}%
11081 }{%
11082   {\diagbox@setlinecolor
11083     \Line(0,0)(\xxm,\y)
11084     \Line(0,0)(\x,\yym)}}%
11085 }{}{}
11086 \bidi@patchcmd{\diagbox@triple@pict@SW}{%
11087   \diagbox@setlinecolor
11088   \Line(0,\ym)(\x,\y)
11089   \Line(\xm,0)(\x,\y)}%
11090 }{%
11091   {\diagbox@setlinecolor
11092     \Line(0,\ym)(\x,\y)
11093     \Line(\xm,0)(\x,\y)}}%
11094 }{}{}
11095 \bidi@patchcmd{\diagbox@triple@pict@SE}{%
11096   \diagbox@setlinecolor
11097   \Line(0,\y)(\xxm,0)
11098   \Line(0,\y)(\x,\ym)}%
11099 }{%
11100   {\diagbox@setlinecolor
11101     \Line(0,\y)(\xxm,0)
11102     \Line(0,\y)(\x,\ym)}}%

```



```
11103 }{}{}
```

80 File draftwatermark-xetex-bidi.def

```
11104 \ProvidesFile{draftwatermark-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for draftwater
11105 \renewcommand\SetWatermarkText[1]{%
11106 \def\sc@wm@text{\if@RTLmain\beginR\fi#1\if@RTLmain\endR\fi}}
```

81 File eso-pic-xetex-bidi.def

```
11107 \ProvidesFile{eso-pic-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for eso-pic package f
11108 \renewcommand\AtPageLowerLeft[1]{\AtPageUpperLeft{%
11109 \put(\if@RTLmain\paperwidth\else 0\fi,-\paperheight){#1}}}%
11110
11111 \ESO@isMEMOIR{%
11112 \renewcommand\AtTextUpperLeft[1]{%
11113 \begingroup
11114 \ifodd\c@page
11115 \if@RTLmain
11116 \ESO@tempdima=\paperwidth
11117 \advance\ESO@tempdima-\textwidth
11118 \advance\ESO@tempdima-\spinemargin
11119 \else
11120 \ESO@tempdima=\spinemargin
11121 \fi
11122 \else
11123 \if@RTLmain
11124 \ESO@tempdima=\spinemargin
11125 \else
11126 \ESO@tempdima=\paperwidth
11127 \advance\ESO@tempdima-\textwidth
11128 \advance\ESO@tempdima-\spinemargin
11129 \fi
11130 \fi
11131 \ESO@tempdimb=-\uppermargin
11132 \AtPageUpperLeft{%
11133 \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11134 }%
11135 \endgroup
11136 }
11137 }{}%
11138 \renewcommand\AtTextUpperLeft[1]{%
11139 \begingroup
11140 \ESO@tempdima=1in\relax
11141 \if@twoside
11142 \ifodd\c@page
11143 \if@RTLmain
11144 \advance\ESO@tempdima\evensidemargin
11145 \else
11146 \advance\ESO@tempdima\oddsidemargin
11147 \fi
11148 \else
11149 \if@RTLmain
11150 \advance\ESO@tempdima\oddsidemargin
```




```

11151         \else
11152         \advance\ESO@tempdima\evensidemargin
11153         \fi
11154     \fi
11155 \else
11156     \advance\ESO@tempdima\oddsidemargin
11157 \fi
11158 \ESO@tempdimb=-1in\relax
11159 \advance\ESO@tempdimb-\topmargin
11160 \advance\ESO@tempdimb-\headheight
11161 \advance\ESO@tempdimb-\headsep
11162 \AtPageUpperLeft{%
11163     \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11164 }%
11165 \endgroup
11166 }
11167 }

```

82 File empheq-xetex-bidi.def

```

11168 \ProvidesFile{empheq-xetex-bidi.def}[2018/01/08 v0.2 bidi adaptations for empheq package for
11169 \MHInternalSyntaxOn
11170 \def\EQ_tag_plus_endmark:{%
11171     \iftagsleft@
11172     \gdef\maketag@@@#1{%
11173         \hfuzz\displaywidth
11174         \if@RTL\makebox[\widthof{##1}][r]{%
11175             \hbox to \displaywidth{\m@th\normalfont##1\hss
11176                 \raisebox{-\dp\EQ_mathdisplay_box
11177                     -\depthof{\EQ_outerbox:}}{
11178                     {\PotEndMark{\hss}}}}
11179         \else\makebox[\widthof{##1}][l]{%
11180             \hbox to \displaywidth{\m@th\normalfont##1\hss
11181                 \raisebox{-\dp\EQ_mathdisplay_box
11182                     -\depthof{\EQ_outerbox:}}{
11183                     {\PotEndMark{\hss}}}}\fi}%
11184 \MH_else:
11185     \gdef\maketag@@@#1{%
11186         \hbox{\m@th\normalfont##1\llap{\hss\PotEndMark{%
11187             \settoheight{\@tempdima}{\@nameuse{\InTheoType Symbol}}}%
11188             \MH_addtolength:dn \@tempdima
11189             {\g_EQ_bottomtag_depth_dim+\mintagvsep}
11190             \setlength{\@tempdimb}
11191             {\g_EQ_bottomrow_depth_dim+\depthof{\EQ_outerbox:}}
11192             +\depthof{\EQ_innerbox:}}}}
11193     \MH_if_dim:w \@tempdima>\@tempdimb
11194     \MH_setlength:dn \@tempdima{-\dp\EQ_mathdisplay_box
11195         -\@tempdima+\g_EQ_bottomrow_depth_dim}
11196     \addtolength{\@tempdima}{\depthof{\EQ_innerbox:}}}%
11197     \def\EQ_next:{\raisebox{\@tempdima}}%
11198 \MH_else:
11199     \def\EQ_next:{
11200         \raisebox{-\dp\EQ_mathdisplay_box
11201             -\depthof{\EQ_outerbox:}}}%

```



```

11202         \MH_fi:\EQ_next:}}}}%
11203 \MH_fi:}
11204 \def\EQ_post_process:{%
11205   \EQ_initialize:
11206   \EQ_begin_equation:
11207   \MH_if_boolean:nT {outer_mult}{
11208     \setkeys{\MT_options_name:}{
11209       firstline-afterskip=Opt,
11210       lastline-preskip=Opt,
11211       multlined-width=Opt,
11212     }
11213     \ifodd \l_EQ_alignmentmode_int
11214       \setkeys{\MT_options_name:}{multlined-pos=b}
11215     \MH_else:
11216       \setkeys{\MT_options_name:}{multlined-pos=t}
11217     \MH_fi:
11218     \g@addto@macro\EQ_complete_mathdisplay:{
11219       \begin{MTmultlined}\relax}
11220   }
11221   \g@addto@macro\EQ_complete_mathdisplay:\EQ_mathbody:
11222   \MH_if_boolean:nT {outer_mult}{
11223     \g@addto@macro\EQ_complete_mathdisplay:{\end{MTmultlined}}
11224   }
11225   \EQ_end_equation:
11226   \edef\EQ_hyperref_link_fint{\number\Hy@linkcounter}
11227   \savecounters@
11228   \EQ_typeset_tags:
11229   \edef\l_EQ_equation_fint{\number\c@equation}
11230   \restorecounters@
11231   \Hy@linkcounter=\EQ_hyperref_link_fint
11232   \settowidth\l_EQ_totalwidth_dim{%
11233     $\EQ_left_side:\EQ_innerbox:}\EQ_right_side:$}%
11234   \MH_if_boolean:nTF {outer_mult}
11235     { \def\EQ_next:{_mult} }
11236     { \def\EQ_next:{} }
11237   \@nameuse{EQ_modify_linewidth_
11238     \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
11239   \EQ_typeset_display:
11240   \@nameuse{EQ_find_displaywidth_
11241     \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
11242   \MH_addtolength:dn
11243     \l_EQ_totalwidth_dim{\l_EQ_displaywidth_dim}
11244   \savebox\EQ_mathdisplay_box[\l_EQ_totalwidth_dim][c]{%
11245     $\EQ_left_side:
11246     \EQ_innerbox:{%
11247       \MH_if_case:w \l_EQ_alignmentmode_int\MH_or:
11248       \makebox[\l_EQ_displaywidth_dim][c]
11249         {\usebox{\EQ_mathdisplay_box}}}%
11250     \MH_or:
11251       \makebox[\l_EQ_displaywidth_dim][c]
11252         {\usebox{\EQ_mathdisplay_box}}}%
11253     \MH_or:
11254       \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11255         \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:

```



```

11256         \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11257         \kern-\@mathmargin
11258         \MH_fi:
11259         \MH_fi:
11260         \usebox{\EQ_mathtdisplay_box}}%
11261     \else\makebox[\l_EQ_displaywidth_dim][l]{%
11262         \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11263         \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11264         \kern-\@mathmargin
11265         \MH_fi:
11266         \MH_fi:
11267         \usebox{\EQ_mathtdisplay_box}}\fi%
11268 \MH_or:
11269     \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11270         \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11271         \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11272         \kern-\@mathmargin
11273         \MH_fi:
11274         \MH_fi:
11275         \usebox{\EQ_mathtdisplay_box}}
11276     \else\makebox[\l_EQ_displaywidth_dim][l]{%
11277         \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11278         \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11279         \kern-\@mathmargin
11280         \MH_fi:
11281         \MH_fi:
11282         \usebox{\EQ_mathtdisplay_box}}\fi%
11283     \MH_fi:}%
11284     \EQ_right_side:$}%
11285 \begin{AmSequation*}
11286 \@nameuse{EQ_place_display_
11287     \romannumeral\l_EQ_equationtype_int\EQ_next: :}
11288 \MH_if_dim:w \g_EQ_widesttag_dim>\z@
11289 \MH_set_boolean_T:n {show_manual_tags}
11290     \MH_if_case:w \l_EQ_alignmentmode_int
11291     \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#1
11292     \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#2
11293     \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#3
11294     \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#4
11295     \MH_fi:
11296 \MH_fi:
11297 \end{AmSequation*}
11298 \global\c@equation=\l_EQ_equation_fint\relax
11299 }
11300 \AtBeginDocument{%
11301     \@ifpackageloaded{fancybox}{%
11302         \@ifpackageloaded{color}{\definecolor{shadowcolor}{rgb}{0,0,0}}%
11303         {\renewcommand*\textcolor[2]{\normalcolor{#2}}}%
11304         \renewcommand*\shadowbox{%
11305             \@ifstar{\MH_set_boolean_T:n {shadowbox_star}
11306                 \VerbBox\EQ_shadowbox:n}
11307             {\MH_set_boolean_F:n {shadowbox_star}
11308                 \VerbBox\EQ_shadowbox:n}}
11309         \def\EQ_shadowbox:n #1{%

```



```

11310 \sbox{\z@}{\fbox{#1}}%
11311 \MH_if_boolean:nTF {shadowbox_star}{
11312 \MH_setlength:dn \@tempdima{\z@}%
11313 }{
11314 \MH_setlength:dn \@tempdima{\dp\z@+\shadowsize}%
11315 }
11316 \raisebox{\@tempdima}{%
11317 \if@RTL\makebox[\z@][r]{%
11318 \kern\shadowsize \textcolor{shadowcolor}{%
11319 \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}}%
11320 }%
11321 \else\makebox[\z@][l]{%
11322 \kern\shadowsize \textcolor{shadowcolor}{%
11323 \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}}%
11324 }\fi%
11325 \usebox\z@\textcolor{shadowcolor}{%
11326 \rule[-\dp\z@-\shadowsize]{\shadowsize}{\ht\z@+\dp\z@}}}%
11327 }{}%
11328 }
11329 \MHInternalSyntaxOff

```

83 File extarticle-xetex-bidi.def

```

11330 \ProvidesFile{extarticle-xetex-bidi.def}[2025/09/04 v0.6 bidi adaptations for extarticle cla
11331 \renewcommand*\l@section[2]{%
11332 \ifnum \c@tocdepth >\z@
11333 \addpenalty\@secpenalty
11334 \addvspace{1.0em \@plus\p@}%
11335 \setlength\@tempdima{1.5em}%
11336 \begingroup
11337 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11338 \parfillskip -\@pnumwidth
11339 \leavevmode \bfseries
11340 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
11341 \hskip -\if@RTL\rightskip\else\leftskip\fi
11342 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
11343 \endgroup
11344 \fi}
11345 \renewcommand*\l@part[2]{%
11346 \ifnum \c@tocdepth >-2\relax
11347 \addpenalty\@secpenalty
11348 \addvspace{2.25em \@plus\p@}%
11349 \begingroup
11350 \setlength\@tempdima{3em}%
11351 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11352 \parfillskip -\@pnumwidth
11353 {\leavevmode
11354 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11355 \nobreak
11356 \endgroup
11357 \fi}
11358 \ApplyPatchIfPackageLoaded{nameref}{%
11359 \bidi@patchcmd\NR@part{%
11360 \parindent \z@

```



```

11361 }{%
11362   \parindent \z@
11363   \if@RTL\raggedleft\else\raggedright\fi
11364 }{\if@bidi@warningnoline{Oops! patching `\'string\NR@part' failed}}}%
11365 \bidi@patchcmd\NR@spart\raggedright{%
11366   \if@RTL\raggedleft\else\raggedright\fi
11367 }{\if@bidi@warningnoline{Oops! patching `\'string\NR@spart' failed}}}%
11368 }{%
11369   \bidi@patchcmd\@part{%
11370     \parindent \z@
11371   }{%
11372     \parindent \z@
11373     \if@RTL\raggedleft\else\raggedright\fi
11374   }{\if@bidi@warningnoline{Oops! patching `\'string\@part' failed}}}%
11375   \bidi@patchcmd\@spart\raggedright{%
11376     \if@RTL\raggedleft\else\raggedright\fi
11377   }{\if@bidi@warningnoline{Oops! patching `\'string\@spart' failed}}}%
11378 }
11379 \renewenvironment{thebibliography}[1]
11380   {\section*{\refname
11381     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}}%
11382     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
11383     \bidi@@thebibliography@font@hook%
11384     \list{\@biblabel{\@arabic\c@enumiv}}%
11385       {\settowidth\labelwidth{\@biblabel{#1}}%
11386         \leftmargin\labelwidth
11387         \advance\leftmargin\labelsep
11388         \@openbib@code
11389         \usecounter{enumiv}%
11390         \let\p@enumiv\@empty
11391         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11392     \sloppy\clubpenalty4000\widowpenalty4000%
11393     \sfcode`. \@m}
11394   {\def\@noitemerr
11395     {\@latex@warning{Empty `thebibliography' environment}}}%
11396   \endlist}
11397 \renewcommand\left@footnoterule{%
11398   \kern-3\p@
11399   \hrule\@width.4\columnwidth
11400   \kern2.6\p@}
11401 \renewcommand\right@footnoterule{%
11402   \kern-3\p@
11403   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11404   \kern2.6\p@}
11405   \if@titlepage
11406   \renewcommand\maketitle{\begin{titlepage}%
11407     \let\footnotesize\small
11408     \let\right@footnoterule\relax
11409     \let\left@footnoterule\relax
11410     \let\textwidth\footnoterule\relax
11411     \let \footnote \thanks
11412     \null\vfil
11413     \vskip 60\p@
11414     \begin{center}%

```



```

11415   {\LARGE \@title \par}%
11416   \vskip 3em%
11417   {\large
11418     \lineskip .75em%
11419     \begin{tabular}[t]{c}%
11420       \@author
11421     \end{tabular}\par}%
11422   \vskip 1.5em%
11423   {\large \@date \par}%           % Set date in \large size.
11424   \end{center}\par
11425   \@thanks
11426   \vfil\null
11427   \end{titlepage}%
11428   \setcounter{footnote}{0}%
11429   \global\let\thanks\relax
11430   \global\let\maketitle\relax
11431   \global\let\@thanks\@empty
11432   \global\let\@author\@empty
11433   \global\let\@date\@empty
11434   \global\let\@title\@empty
11435   \global\let\title\relax
11436   \global\let\author\relax
11437   \global\let\date\relax
11438   \global\let\and\relax
11439 }
11440 \else
11441 \renewcommand\maketitle{\par
11442   \begingroup
11443     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11444     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11445     \long\def\@makefntext##1{\parindent 1em\noindent
11446       \hb@xt@1.8em{%
11447         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11448     \if@twocolumn
11449       \ifnum \col@number=\@ne
11450         \@maketitle
11451       \else
11452         \twocolumn[\@maketitle]%
11453       \fi
11454     \else
11455       \newpage
11456       \global\@topnum\z@   % Prevents figures from going at top of page.
11457       \@maketitle
11458     \fi
11459     \thispagestyle{plain}\@thanks
11460   \endgroup
11461   \setcounter{footnote}{0}%
11462   \global\let\thanks\relax
11463   \global\let\maketitle\relax
11464   \global\let\@maketitle\relax
11465   \global\let\@thanks\@empty
11466   \global\let\@author\@empty
11467   \global\let\@date\@empty
11468   \global\let\@title\@empty

```



```

11469 \global\let\title\relax
11470 \global\let\author\relax
11471 \global\let\date\relax
11472 \global\let\and\relax
11473 }
11474 \def\@maketitle{%
11475 \newpage
11476 \null
11477 \vskip 2em%
11478 \begin{center}%
11479 \let \footnote \thanks
11480 {\LARGE \@title \par}%
11481 \vskip 1.5em%
11482 {\large
11483 \lineskip .5em%
11484 \begin{tabular}[t]{c}%
11485 \@author
11486 \end{tabular}\par}%
11487 \vskip 1em%
11488 {\large \@date}%
11489 \end{center}%
11490 \par
11491 \vskip 1.5em}
11492 \fi
11493 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@section}
11494 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11495 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11496 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}%%

```

84 File extbook-xetex-bidi.def

```

11497 \ProvidesFile{extbook-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extbook class for
11498 \if@titlepage
11499 \renewcommand\maketitle{\begin{titlepage}%
11500 \let\footnotesize\small
11501 \let\right@footnoterule\relax
11502 \let\left@footnoterule\relax
11503 \let\textwidth\footnoterule\relax
11504 \let \footnote \thanks
11505 \let \LTRfootnote \LTRthanks
11506 \let \RTLfootnote \RTLthanks
11507 \null\vfil
11508 \vskip 60\p@
11509 \begin{center}%
11510 {\LARGE \@title \par}%
11511 \vskip 3em%
11512 {\large
11513 \lineskip .75em%
11514 \begin{tabular}[t]{c}%
11515 \@author
11516 \end{tabular}\par}%
11517 \vskip 1.5em%
11518 {\large \@date \par}% % Set date in \large size.
11519 \end{center}\par

```



```

11520 \@thanks
11521 \vfil\null
11522 \end{titlepage}%
11523 \setcounter{footnote}{0}%
11524 \global\let\thanks\relax
11525 \global\let\LTRthanks\relax
11526 \global\let\RTLthanks\relax
11527 \global\let\maketitle\relax
11528 \global\let\@thanks\@empty
11529 \global\let\@author\@empty
11530 \global\let\@date\@empty
11531 \global\let\@title\@empty
11532 \global\let\title\relax
11533 \global\let\author\relax
11534 \global\let\date\relax
11535 \global\let\and\relax
11536 }
11537 \else
11538 \renewcommand\maketitle{\par
11539 \begingroup
11540 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11541 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11542 \long\def\@makefntext##1{\parindent 1em\noindent
11543 \hb@xt@1.8em{%
11544 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11545 \if@twocolumn
11546 \ifnum \col@number=\@ne
11547 \@maketitle
11548 \else
11549 \twocolumn[\@maketitle]%
11550 \fi
11551 \else
11552 \newpage
11553 \global\@topnum\z@ % Prevents figures from going at top of page.
11554 \@maketitle
11555 \fi
11556 \thispagestyle{plain}\@thanks
11557 \endgroup
11558 \setcounter{footnote}{0}%
11559 \global\let\thanks\relax
11560 \global\let\LTRthanks\relax
11561 \global\let\RTLthanks\relax
11562 \global\let\maketitle\relax
11563 \global\let\@maketitle\relax
11564 \global\let\@thanks\@empty
11565 \global\let\@author\@empty
11566 \global\let\@date\@empty
11567 \global\let\@title\@empty
11568 \global\let\title\relax
11569 \global\let\author\relax
11570 \global\let\date\relax
11571 \global\let\and\relax
11572 }
11573 \def\@maketitle{%

```




```

11574 \newpage
11575 \null
11576 \vskip 2em%
11577 \begin{center}%
11578 \let \footnote \thanks
11579 \let \LTRfootnote \LTRthanks
11580 \let \RTLfootnote \RTLthanks
11581 {\LARGE \@title \par}%
11582 \vskip 1.5em%
11583 {\large
11584 \lineskip .5em%
11585 \begin{tabular}[t]{c}%
11586 \author
11587 \end{tabular}\par}%
11588 \vskip 1em%
11589 {\large \@date}%
11590 \end{center}%
11591 \par
11592 \vskip 1.5em}
11593 \fi
11594 \renewcommand*\l@part[2]{%
11595 \ifnum \c@tocdepth >-2\relax
11596 \addpenalty{-\@highpenalty}%
11597 \addvspace{2.25em \@plus\p}%
11598 \begingroup
11599 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11600 \parfillskip -\@pnumwidth
11601 {\leavevmode
11602 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11603 \nobreak
11604 \global\@nobreaktrue
11605 \everypar{\global\@nobreakfalse\everypar{}}%
11606 \endgroup
11607 \fi}
11608 \renewcommand\theequation
11609 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
11610 \renewcommand \thefigure
11611 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
11612 \renewcommand \thetable
11613 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
11614 \renewcommand \thechapter {\@arabic\c@chapter}
11615 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
11616 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
11617 \renewcommand \thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11618 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11619 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
11620 \def\@makechapterhead#1{%
11621 \vspace*{50\p}%
11622 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
11623 \ifnum \c@secnumdepth >\m@ne
11624 \if@mainmatter
11625 \huge\bfseries \@chapapp\space \thechapter
11626 \par\nobreak
11627 \vskip 20\p@

```



```

11628     \fi
11629     \fi
11630     \interlinepenalty\@M
11631     \Huge \bfseries #1\par\nobreak
11632     \vskip 40\p@
11633   }}
11634
11635 \def\@makeschapterhead#1{%
11636   \vspace*{50\p@}%
11637   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11638     \normalfont
11639     \interlinepenalty\@M
11640     \Huge \bfseries #1\par\nobreak
11641     \vskip 40\p@
11642   }}
11643 \renewcommand\backmatter{%
11644   \if@openright
11645     \cleardoublepage
11646   \else
11647     \clearpage
11648   \fi
11649   \@mainmatterfalse}
11650 \renewenvironment{thebibliography}[1]
11651   {\chapter*{\bibname
11652     \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
11653     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
11654     \bidi@thebibliography@font@hook%
11655     \list{\@biblabel{\@arabic\c@enumiv}}%
11656       {\settowidth\labelwidth{\@biblabel{#1}}%
11657         \leftmargin\labelwidth
11658         \advance\leftmargin\labelsep
11659         \@openbib@code
11660         \usecounter{enumiv}%
11661         \let\p@enumiv\@empty
11662         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11663     \sloppy
11664     \clubpenalty4000
11665     \@clubpenalty \clubpenalty
11666     \widowpenalty4000%
11667     \sfcode\.\@m}
11668 {\def\@noitemerr
11669   {\@latex@warning{Empty `thebibliography' environment}}}%
11670 \endlist}

```

85 File extletter-xetex-bidi.def

```

11671 \ProvidesFile{extletter-xetex-bidi.def}[2015/11/14 v0.2 bidi adaptations for extletter class]
11672 \renewcommand*\opening[1]{\ifx\@empty\fromaddress
11673   \thispagestyle{firstpage}%
11674   {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
11675 \else % home address
11676   \thispagestyle{empty}%
11677   {\if@RTL\raggedright\begin{tabular}{r@{}}\else\raggedleft\begin{tabular}{l@{}}\fi\ignore
11678     \fromaddress \[*2\parskip]%

```



```

11679 \date \end{tabular}\par}%
11680 \fi
11681 \vspace{2\parskip}%
11682 {\if@RTL\raggedleft\else\raggedright\fi \toname \ \ \toaddress \par}%
11683 \vspace{2\parskip}%
11684 #1\par\nobreak}
11685 \renewcommand{\closing}[1]{\par\nobreak\vspace{\parskip}%
11686 \stopbreaks
11687 \noindent
11688 \ifx@empty\fromaddress\else
11689 \hspace*{\longindentation}\fi
11690 \parbox{\indentedwidth}{\if@RTL\raggedleft\else\raggedright\fi
11691 \ignorespaces #1\ \ [6\medskipamount]%
11692 \ifx@empty\fromsig
11693 \fromname
11694 \else \fromsig \fi\strut}%
11695 \par}
11696 \renewcommand\left@footnoterule{%
11697 \kern-\p@
11698 \hrule \@width .4\columnwidth
11699 \kern .6\p@}
11700 \renewcommand\right@footnoterule{%
11701 \kern-\p@
11702 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11703 \kern .6\p@}

```

86 File extrafootnotefeatures-xetex-bidi.def

```

11704 \ProvidesFile{extrafootnotefeatures-xetex-bidi.def}[2025/01/03 v2.7 bidi extra footnote feat
11705 \newdimen\bidi@columnwidth
11706 \def\bidi@floathook{%
11707 \bidi@columnwidth\columnwidth
11708 }
11709 \newcommand*{\@bidi@before@Hy@hyperfootnotes}{%
11710 \if@bidi@csundef{ifHy@hyperfootnotes}{}%
11711 \if@bidi@csundef{HLTR@LTRfootnotetext}{}%
11712 \ifHy@hyperfootnotes
11713 \let\@H@footnotetext\@footnotetext
11714 \let\@HLTR@LTRfootnotetext\@LTRfootnotetext
11715 \let\@HRTL@RTLfootnotetext\@RTLfootnotetext
11716 \let\@H@mpfootnotetext\@mpfootnotetext
11717 \let\@HLTR@mpLTRfootnotetext\@mpLTRfootnotetext
11718 \let\@HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
11719 \fi
11720 }%
11721 }%
11722 }
11723 \newcommand*{\@bidi@after@Hy@hyperfootnotes}{%
11724 \if@bidi@csundef{ifHy@hyperfootnotes}{}%
11725 \if@bidi@csundef{HLTR@LTRfootnotetext}{}%
11726 \ifHy@hyperfootnotes
11727 \let\@H@footnotetext\@footnotetext
11728 \let\@footnotetext\@H@footnotetext
11729 \let\@HLTR@LTRfootnotetext\@LTRfootnotetext

```



```

11730 \let\@LTRfootnotetext\@@HLTR@@LTRfootnotetext
11731 \let\HRTL@RTLfootnotetext\@RTLfootnotetext
11732 \let\@RTLfootnotetext\@@HRTL@RTLfootnotetext
11733 \let\H@Cmpfootnotetext\@mpfootnotetext
11734 \let\@mpfootnotetext\@@H@Cmpfootnotetext
11735 \let\HLTR@CmpLTRfootnotetext\@mpLTRfootnotetext
11736 \let\@mpLTRfootnotetext\@@HLTR@CmpLTRfootnotetext
11737 \let\HRTL@CmpRTLfootnotetext\@mpRTLfootnotetext
11738 \let\@mpRTLfootnotetext\@@HRTL@CmpRTLfootnotetext
11739 \fi
11740 }%
11741 }%
11742 }
11743 \let\autofootnoterule\relax
11744 \let\rightfootnoterule\relax
11745 \let\leftfootnoterule\relax
11746 \let\textwidthfootnoterule\relax
11747 \let\LRfootnoterule\relax
11748 \def\footnoterule{\kern-3\p@
11749 \hrule \@width \columnwidth \kern 2.6\p@}
11750 \newcommand{\@preamnormalfmt}{%
11751 \parindent 1em%
11752 \noindent
11753 }
11754 \newcommand{\@normalfootfmt}[1]{%
11755 \@preamnormalfmt
11756 \footfootmark
11757 \rule{z@}{footnotesep}\ignorespaces{\foottextfont #1}%
11758 \@finalstrut\strutbox
11759 }
11760 \newcommand{\@normalRTLfootfmt}[1]{%
11761 \@preamnormalfmt
11762 \RTLfootfootmark
11763 \rule{z@}{footnotesep}\ignorespaces{\RTLfoottextfont #1}%
11764 \@finalstrut\strutbox
11765 }
11766 \newcommand{\@normalLTRfootfmt}[1]{%
11767 \@preamnormalfmt
11768 \LTRfootfootmark
11769 \rule{z@}{footnotesep}\ignorespaces{\LTRfoottextfont #1}%
11770 \@finalstrut\strutbox
11771 }
11772 \renewcommand{\@footnotetext}[1]{%
11773 \insert\footins{%
11774 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11775 \def\baselinestretch{\m@m@footnote@spacing}%
11776 \reset@font
11777 \foottextfont
11778 \@preamfntext
11779 \hsize\columnwidth
11780 \protected@edef\@currentlabel{%
11781 \csname p@footnote\endcsname\@thefnmark}%
11782 \color@begingroup
11783 \@normalfootfmt{#1}%

```



```

11784 \color@endgroup}%
11785 \m@mmf@prepare}
11786 \newcommand{\bidi@bidiold@footnotetext}[1]{%
11787 \bidi@step@absolute@footnote@count
11788 \bidi@reinsert@footnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11789 \insert\footins{%
11790 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11791 \def\baselinestretch{\m@m@footnote@spacing}%
11792 \reset@font
11793 \foottextfont
11794 \@preamfntext
11795 \hsize\columnwidth
11796 \protected@edef\@currentlabel{%
11797 \csname p@footnote\endcsname\@thefnmark}%
11798 \color@begingroup
11799 \@normalfootfmt{#1}%
11800 \color@endgroup}%
11801 \m@mmf@prepare
11802 }
11803 \renewcommand{\@RTLfootnotetext}[1]{%
11804 \insert\footins{%
11805 \@RTLtrue%
11806 \def\baselinestretch{\m@m@footnote@spacing}%
11807 \reset@font
11808 \RTLfoottextfont
11809 \@preamfntext
11810 \hsize\columnwidth
11811 \protected@edef\@currentlabel{%
11812 \csname p@footnote\endcsname\@thefnmark}%
11813 \color@begingroup
11814 \@normalRTLfootfmt{#1}%
11815 \color@endgroup}%
11816 \m@mmf@prepare}
11817 \newcommand{\bidi@bidiold@RTLfootnotetext}[1]{%
11818 \bidi@step@absolute@footnote@count
11819 \bidi@reinsert@footnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11820 \insert\footins{%
11821 \@RTLtrue%
11822 \def\baselinestretch{\m@m@footnote@spacing}%
11823 \reset@font
11824 \RTLfoottextfont
11825 \@preamfntext
11826 \hsize\columnwidth
11827 \protected@edef\@currentlabel{%
11828 \csname p@footnote\endcsname\@thefnmark}%
11829 \color@begingroup
11830 \@normalRTLfootfmt{#1}%
11831 \color@endgroup}%
11832 \m@mmf@prepare
11833 }
11834 \renewcommand{\@LTRfootnotetext}[1]{%
11835 \insert\footins{%
11836 \@RTLfalse%
11837 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

11838 \reset@font
11839 \LTRfoottextfont
11840 \@preamftext
11841 \hsize\columnwidth
11842 \protected@edef\@currentlabel{%
11843 \csname p@footnote\endcsname\@thefnmark}%
11844 \color@begingroup
11845 \@normalLTRfootfmt{#1}%
11846 \color@endgroup}%
11847 \m@mml@prepare}
11848 \renewcommand{\@mpfootnotetext}[1]{%
11849 \global\setbox\@mpfootins\vbox{%
11850 \unvbox\@mpfootins
11851 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
11852 \def\baselinestretch{\m@m@footnote@spacing}%
11853 \reset@font%
11854 \foottextfont \hsize\columnwidth \@parboxrestore
11855 \protected@edef\@currentlabel{%
11856 \csname p@mpfootnote\endcsname\@thefnmark}%
11857 \color@begingroup
11858 \@normalfootfmt{#1}%
11859 \color@endgroup}}
11860 \newcommand{\@bidi@bidiold@mpfootnotetext}[1]{%
11861 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
11862 \global\setbox\@mpfootins\vbox{%
11863 \unvbox\@mpfootins
11864 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11865 \def\baselinestretch{\m@m@footnote@spacing}%
11866 \reset@font%
11867 \foottextfont \hsize\columnwidth \@parboxrestore
11868 \protected@edef\@currentlabel{%
11869 \csname p@mpfootnote\endcsname\@thefnmark}%
11870 \color@begingroup
11871 \@normalfootfmt{#1}%
11872 \color@endgroup}}
11873 \renewcommand{\@mpLTRfootnotetext}[1]{%
11874 \global\setbox\@mpfootins\vbox{%
11875 \unvbox\@mpfootins
11876 \@RTLfalse
11877 \def\baselinestretch{\m@m@footnote@spacing}%
11878 \reset@font%
11879 \LTRfoottextfont \hsize\columnwidth \@parboxrestore
11880 \protected@edef\@currentlabel{%
11881 \csname p@mpfootnote\endcsname\@thefnmark}%
11882 \color@begingroup
11883 \@normalLTRfootfmt{#1}%
11884 \color@endgroup}}
11885 \renewcommand{\@mpRTLfootnotetext}[1]{%
11886 \global\setbox\@mpfootins\vbox{%
11887 \unvbox\@mpfootins
11888 \@RTLtrue
11889 \def\baselinestretch{\m@m@footnote@spacing}%
11890 \reset@font%
11891 \RTLfoottextfont \hsize\columnwidth \@parboxrestore

```



```

11892 \protected@edef\@currentlabel{%
11893 \csname p@mpfootnote\endcsname\@thefnmark}%
11894 \color@begingroup
11895 \normalRTLfootfmt{#1}%
11896 \color@endgroup}}
11897 \newcommand{\bidi@bidiold@mpRTLfootnotetext}[1]{%
11898 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
11899 \global\setbox\@mpfootins\vbox{%
11900 \unvbox\@mpfootins
11901 \@RTLtrue
11902 \def\baselinestretch{\m@m@footnote@spacing}%
11903 \reset@font%
11904 \RTLfoottextfont \hsize\columnwidth \@parboxrestore
11905 \protected@edef\@currentlabel{%
11906 \csname p@mpfootnote\endcsname\@thefnmark}%
11907 \color@begingroup
11908 \normalRTLfootfmt{#1}%
11909 \color@endgroup}}
11910 \let\m@mold@footnotetext\@footnotetext
11911 \let\m@mold@LTRfootnotetext\@LTRfootnotetext
11912 \let\m@mold@RTLfootnotetext\@RTLfootnotetext
11913 \let\m@mold@mpfootnotetext\@mpfootnotetext
11914 \let\m@mold@mpLTRfootnotetext\@mpLTRfootnotetext
11915 \let\m@mold@mpRTLfootnotetext\@mpRTLfootnotetext
11916 \bidi@ensure@newcommand{\normalfootnotes}{%
11917 \@bidi@before@Hy@hyperfootnotes
11918 \let\@footnotetext\m@mold@footnotetext
11919 \let\@LTRfootnotetext\m@mold@LTRfootnotetext
11920 \let\@RTLfootnotetext\m@mold@RTLfootnotetext
11921 \let\@mpfootnotetext\m@mold@mpfootnotetext
11922 \let\@mpLTRfootnotetext\m@mold@mpLTRfootnotetext
11923 \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
11924 \@bidi@after@Hy@hyperfootnotes
11925 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
11926 }
11927 \IfClassLoadedT{memoir}{\let\plainfootnotes\normalfootnotes}
11928 \bidi@ensure@newcommand*\setSingleSpace[1]{%
11929 \def\m@m@singlespace{#1}%
11930 \def\m@m@footnote@spacing{#1}%
11931 \def\m@m@float@spacing{#1} %
11932 }
11933 \setSingleSpace{1}
11934 \bidi@ensure@newcommand*\multiplefootnotemarker{3sp}
11935 \bidi@ensure@newcommand*\m@m@mmf@prepare}{%
11936 \kern-\multiplefootnotemarker
11937 \kern\multiplefootnotemarker\relax}
11938 \bidi@ensure@newlength{\footmarkwidth}
11939 \bidi@ensure@newcommand*\footmarkstyle[1]{\def\footscript##1{#1}}
11940 \bidi@ensure@newcommand*\LTRfootmarkstyle[1]{\def\LTRfootscript##1{#1}}
11941 \bidi@ensure@newcommand*\RTLfootmarkstyle[1]{\def\RTLfootscript##1{#1}}
11942 \bidi@ensure@newcommand\footfootmark}{%
11943 \ifdim\footmarkwidth < \z@
11944 \llap{\hb@xt@ -\footmarkwidth{%
11945 \hss\normalfont\footscript{\@thefnmark}}}%

```



```

11946         \hspace*{-\footmarkwidth}}%
11947     \else
11948         \ifdim\footmarkwidth = \z@
11949             {\normalfont\footscript{\@thefnmark}}%
11950         \else
11951             \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\@thefnmark}}%
11952         \fi
11953     \fi}
11954 \bidi@ensure@newcommand{\LTRfootfootmark}{%
11955     \ifdim\footmarkwidth < \z@
11956         \llap{\hb@xt@ -\footmarkwidth{%
11957             \hss\normalfont\LTRfootscript{\@thefnmark}}%
11958             \hspace*{-\footmarkwidth}}%
11959     \else
11960         \ifdim\footmarkwidth = \z@
11961             {\normalfont\LTRfootscript{\@thefnmark}}%
11962         \else
11963             \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\@thefnmark}}%
11964         \fi
11965     \fi}
11966 \bidi@ensure@newcommand{\RTLfootfootmark}{%
11967     \ifdim\footmarkwidth < \z@
11968         \llap{\hb@xt@ -\footmarkwidth{%
11969             \hss\normalfont\RTLfootscript{\@thefnmark}}%
11970             \hspace*{-\footmarkwidth}}%
11971     \else
11972         \ifdim\footmarkwidth = \z@
11973             {\normalfont\RTLfootscript{\@thefnmark}}%
11974         \else
11975             \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\@thefnmark}}%
11976         \fi
11977     \fi}
11978 \footmarkstyle{\textsuperscript{#1}}
11979 \LTRfootmarkstyle{\textsuperscript{#1}}
11980 \RTLfootmarkstyle{\textsuperscript{#1}}
11981 \newcommand*{\bidi@normal@footmarkwidth}{%
11982     \setlength{\footmarkwidth}{1em plus.3em minus.3em}%
11983 }
11984 \newcommand*{\bidi@star@footmarkwidth}{%
11985     \setlength{\footmarkwidth}{0em plus.3em minus.3em}%
11986 }
11987 \bidi@normal@footmarkwidth
11988 \bidi@ensure@newcommand{\m@mdoextrafeet}{\extrafeetins}
11989 \bidi@ensure@newcommand*{\extrafeetins}{%
11990     \bidi@joinfootnotes\footinsv@r\@footstartv@r\@footgroupv@r
11991     \bidi@joinfootnotes\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11992     \bidi@joinfootnotes\@bidi@copyins@{\unvbox\@bidi@copyins@}%
11993     \extrafeetinshook}
11994 \bidi@ensure@newcommand{\extrafeetinshook}{%
11995     \bidi@ensure@newcommand{\foottextfont}{\footnotesize}
11996     \bidi@ensure@newcommand{\LTRfoottextfont}{\footnotesize}
11997     \bidi@ensure@newcommand{\RTLfoottextfont}{\footnotesize}
11998     \bidi@ensure@newlength{\footinsdim}
11999     \setlength{\footinsdim}{8in}    % standard for \dimen\footins

```




```

12000 \bidi@ensure@newcommand{\@preamfntext}{%
12001   \interlinepenalty\interfootnotelinepenalty
12002   \floatingpenalty \@MM
12003   \splittopskip=\footnotesep
12004   \splitmaxdepth=\dp\strutbox
12005   \@parboxrestore}
12006 \def\bidi@ifmulticol#1#2{\@tempswafalse
12007   \ifnum\col@number>\@ne
12008     \ifnum\count\footins>1999 \@tempwattrue \fi
12009   \fi
12010   \if@tempswa #1\else #2\fi
12011 }
12012 \def\bidi@joinfootnotes#1#2#3{%
12013   \ifvoid#1
12014     \else
12015       \@tempskipa\skip#1%
12016       \bidi@ifmulticol{\divide\@tempskipa\col@number}{}%
12017       \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
12018       \bidi@removexfootskip
12019       \ifvoid\footins
12020         \global\setbox\footins\vbox{#2#3}%
12021       \else
12022         \global\setbox\footins\vbox{%
12023           \unvbox\footins
12024           \bidi@footskip
12025           #2#3%
12026         }%
12027       \fi
12028     \fi
12029 }
12030 \def\bidi@reinsertfootnote#1#2#3{%
12031   \ifvoid#1%
12032   \else
12033     \insert\footins{#2#3}%
12034   \fi
12035 }
12036 \def\bidi@joinmpfootnotes#1#2#3{%
12037   \ifvoid#1
12038   \else
12039     \@tempskipa\skip#1%
12040     \bidi@ifmulticol{\divide\@tempskipa\col@number}{}%
12041     \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
12042     \bidi@removexfootskip
12043     \ifvoid\@mpfootins
12044       \global\setbox\@mpfootins\vbox{#2#3}%
12045     \else
12046       \global\setbox\@mpfootins\vbox{%
12047         \unvbox\@mpfootins
12048         \bidi@footskip
12049         #2#3%
12050       }%
12051     \fi
12052   \fi
12053 }

```



```

12054 \newcount\bid@absolutepage@count
12055 \bid@absolutepage@count\@ne
12056 \newcount\bid@absolutefootnote@count
12057 \bid@AfterOutputBoxOutputPage{%
12058   \if@filesw
12059     \edef\@tempa{%
12060       \write\@auxout{%
12061         \string\bid@finalfootnoteperpage%
12062         {\noexpand\number\noexpand\bid@absolutepage@count}%
12063         {\noexpand\number\noexpand\bid@absolutefootnote@count}%
12064       }%
12065     }%
12066     \@tempa
12067   \fi
12068 }
12069 \bid@AtEndOutputPage{%
12070   \global\advance\bid@absolutepage@count\@ne
12071 }
12072 \newcommand*\bid@finalfootnoteperpage}[2]{%
12073   \expandafter\gdef\csname bid@currentpagefinalfootnote@@#1\endcsname{#2}%
12074 }
12075 \newif\if@bid@finalfootnoteperpage
12076 \newcommand{\bid@ifafterfinalfootnoteperpage}[2]{%
12077   \if@bid@csundef{\bid@currentpagefinalfootnote@@\number\bid@absolutepage@count}{%
12078     \global\@bid@finalfootnoteperpagetrue
12079   }{%
12080     \global\@bid@finalfootnoteperpagefalse
12081     \ifnum\bid@absolutefootnote@count=\bid@csuse{\bid@currentpagefinalfootnote@@\number\bi
12082       #1%
12083     }%
12084     \else
12085       #2%
12086     }%
12087   }
12088 \newcommand{\bid@reinsertfinalfootnoteperpage}[3]{%
12089   \bid@ifafterfinalfootnoteperpage{%
12090     \bid@reinsertfootnote{#1}{#2}{#3}%
12091   }{%
12092   }%
12093 }
12094 \newcommand*\bid@step@absolutefootnote@count}{%
12095   \global\advance\bid@absolutefootnote@count\@ne
12096 }
12097 \bid@AfterEndDocumentCheckLabelsRerun{%
12098   \if@bid@finalfootnoteperpage
12099     \PackageWarningNoLine{bid}{%
12100       The absolute final footnote is not
12101       known on every page of your
12102       document. Rerun TeX to get the
12103       absolute final footnote on every page
12104       of your document%
12105     }%
12106   \fi
12107 }

```



```

12108 \bidi@ensure@newcommand{\m@doextrafeetmini}{%
12109   \extrafeetminihook}
12110 \bidi@ensure@newcommand{\extrafeetendmini}{%
12111 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12112 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12113   \extrafeetendminihook}
12114 \bidi@ensure@newcommand{\extrafeetendminihook}{%}
12115 \bidi@ensure@newcommand{\m@doextrafeetendmini}{\extrafeetendmini}
12116 \def\endminipage{%
12117   \par
12118   \unskip
12119   \m@doextrafeetendmini
12120   \ifvoid\@mpfootins
12121     \else
12122       \vskip\skip\@mpfootins
12123       \normalcolor
12124       \footnoterule
12125       \unvbox\@mpfootins
12126     \fi
12127     \@minipagefalse
12128     \color@endgroup
12129     \egroup
12130     \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
12131 \bidi@ensure@newcommand{\m@make@footstart}[1]{%
12132   \@namedef{\@footstart#1}{%
12133     \leftskip=\z@
12134     \rightskip=\z@
12135     \parindent=\z@
12136   }%
12137 }
12138 \newinsert\footinsv@r
12139 \skip\footinsv@r\skip\footins
12140 \count\footinsv@r=1000 % no magnification
12141 \dimen\footinsv@r=\footinsdim
12142 \m@make@footstart{v@r}
12143 \newinsert\footinsv@l
12144 \skip\footinsv@l\skip\footins
12145 \count\footinsv@l=1000 % no magnification
12146 \dimen\footinsv@l=\footinsdim
12147 \m@make@footstart{v@l}
12148 \bidi@ensure@newcommand{\@footgroupv@r}{%}
12149 \newinsert\@mpfootinsv@r
12150 \skip\@mpfootinsv@r\skip\@mpfootins
12151 \newinsert\@mpfootinsv@l
12152 \skip\@mpfootinsv@l\skip\@mpfootins
12153 \bidi@ensure@newcommand{\mp@footgroupv@r}{%}
12154 \newcount\m@m@k \newdimen\m@m@h
12155 \bidi@ensure@newcommand*\{\m@mrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12156   \@@line{\beginR\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12157     \valign{##\vfill\cr\m@mdosplits}\endR}}
12158 \newcommand*\{\bidi@LTRrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12159   \@@line{\beginL\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12160     \valign{##\vfill\cr\m@mdosplits}\endL}}
12161 \bidi@ensure@newcommand*\{\m@mdosplits}{\ifnum\m@m@k>0 \noalign{\hfil}\m@msplitoff

```



```

12162 \global\advance\m@m@k-1\cr\m@mdosplits\fi}
12163 \bidi@ensure@newcommand*{\m@msplitoff}{\dimen0=\ht0
12164 \divide\dimen0 by\m@m@k \advance\dimen0 by\m@m@h
12165 \setbox2 \vsplit0 to \dimen0
12166 \unvbox2 }
12167 \bidi@ensure@newcommand{\twocolumnfootnotes}{%
12168 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12169 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12170 \@bidi@before@Hy@hyperfootnotes
12171 \let\@footnotetext\@twocolfootnotetext
12172 \let\@LTRfootnotetext\@twocolLTRfootnotetext
12173 \let\@RTLfootnotetext\@twocolRTLfootnotetext
12174 \dimen\footinsv@r=2\footinsdim
12175 \count\footinsv@r=500\relax
12176 \m@make@twocol@footgroup{v@r}%
12177 \let\@footgroupv@r\@twocol@footgroupv@r
12178 \dimen\footinsv@l=2\footinsdim
12179 \count\footinsv@l=500\relax
12180 \bidi@make@twocol@LTRfootgroup{v@l}%
12181 \let\@LTRfootgroupv@l\@twocol@LTRfootgroupv@l
12182 \let\@mpfootnotetext\@mptwocolfootnotetext
12183 \let\@mpLTRfootnotetext\@mptwocolLTRfootnotetext
12184 \let\@mpRTLfootnotetext\@mptwocolRTLfootnotetext
12185 \@bidi@after@Hy@hyperfootnotes
12186 \m@make@mptwocol@footgroup{v@r}%
12187 \let\mp@footgroupv@r\@mptwocol@footgroupv@r
12188 \bidi@make@mptwocol@LTRfootgroup{v@l}%
12189 \let\mp@LTRfootgroupv@l\@mptwocol@LTRfootgroupv@l
12190 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12191 }
12192 \newcommand{\TwoColumnFootnotes}{%
12193 \@namedef{foottextfontv@r}{\foottextfont}%
12194 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12195 \@bidi@before@Hy@hyperfootnotes
12196 \let\@footnotetext\@TwoColfootnotetext
12197 \let\@LTRfootnotetext\@TwoColLTRfootnotetext
12198 \let\@RTLfootnotetext\@TwoColRTLfootnotetext
12199 \dimen\footinsv@r=2\footinsdim
12200 \count\footinsv@r=500\relax
12201 \m@make@twocol@footgroup{v@r}%
12202 \let\@footgroupv@r\@twocol@footgroupv@r
12203 \dimen\footinsv@l=2\footinsdim
12204 \count\footinsv@l=500\relax
12205 \bidi@make@twocol@LTRfootgroup{v@l}%
12206 \let\@LTRfootgroupv@l\@twocol@LTRfootgroupv@l
12207 \let\@mpfootnotetext\@mpTwoColfootnotetext
12208 \let\@mpLTRfootnotetext\@mpTwoColLTRfootnotetext
12209 \let\@mpRTLfootnotetext\@mpTwoColRTLfootnotetext
12210 \@bidi@after@Hy@hyperfootnotes
12211 \m@make@mptwocol@footgroup{v@r}%
12212 \let\mp@footgroupv@r\@mptwocol@footgroupv@r
12213 \bidi@make@mptwocol@LTRfootgroup{v@l}%
12214 \let\mp@LTRfootgroupv@l\@mptwocol@LTRfootgroupv@l
12215 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth

```



```

12216 }
12217 \bidi@ensure@newcommand{\@twocolfootnotetext}[1]{\insert
12218   \if@RTL@footnote
12219     \footinsv@r
12220   \else
12221     \footinsv@l
12222   \fi
12223 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12224   \def\baselinestretch{\m@m@footnote@spacing}%
12225   \reset@font\foottextfont
12226   \@preamfntext
12227   \protected@edef\@currentlabel{%
12228     \csname p@footnote\endcsname\@thefnmark}%
12229   \color@begingroup
12230     \@twocolfootfmt{#1}%
12231   \color@endgroup}%
12232   \m@mmf@prepare}
12233 \newcommand{\@TwoColfootnotetext}[1]{%
12234   \bidi@step@absolutefootnote@count
12235   \if@RTL@footnote
12236     \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12237   \else
12238     \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12239   \fi
12240   \global\setbox
12241     \if@RTL@footnote
12242       \footinsv@r
12243     \else
12244       \footinsv@l
12245     \fi
12246   \vbox{%
12247     \unvbox
12248     \if@RTL@footnote
12249       \footinsv@r
12250     \else
12251       \footinsv@l
12252     \fi
12253     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12254     \def\baselinestretch{\m@m@footnote@spacing}%
12255     \reset@font\foottextfont
12256     \@preamfntext
12257     \protected@edef\@currentlabel{%
12258       \csname p@footnote\endcsname\@thefnmark}%
12259     \color@begingroup
12260       \@twocolfootfmt{#1}%
12261     \color@endgroup}%
12262     \m@mmf@prepare
12263   \if@RTL@footnote
12264     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12265   \else
12266     \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12267   \fi
12268 }
12269 \bidi@ensure@newcommand{\@twocolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%

```



```

12270 \def\baselinestretch{\m@m@footnote@spacing}%
12271 \reset@font\LTRfoottextfont
12272 \@preamfntext
12273 \protected@edef\@currentlabel{%
12274   \csname p@footnote\endcsname\@thefnmark}%
12275 \color@begingroup
12276   \@twocolLTRfootfmt{#1}%
12277 \color@endgroup}%
12278 \m@mmf@prepare}
12279 \newcommand{\@TwoColLTRfootnotetext}[1]{%
12280   \bidi@step@absolutefootnote@count
12281 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12282 \global\setbox\footinsv@l\vbox{%
12283   \unvbox\footinsv@l
12284   \@RTLfalse
12285 \def\baselinestretch{\m@m@footnote@spacing}%
12286 \reset@font\LTRfoottextfont
12287 \@preamfntext
12288 \protected@edef\@currentlabel{%
12289   \csname p@footnote\endcsname\@thefnmark}%
12290 \color@begingroup
12291   \@twocolLTRfootfmt{#1}%
12292 \color@endgroup}%
12293 \m@mmf@prepare
12294 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12295 }
12296 \bidi@ensure@newcommand{\@twocolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12297 \def\baselinestretch{\m@m@footnote@spacing}%
12298 \reset@font\RTLfoottextfont
12299 \@preamfntext
12300 \protected@edef\@currentlabel{%
12301   \csname p@footnote\endcsname\@thefnmark}%
12302 \color@begingroup
12303   \@twocolRTLfootfmt{#1}%
12304 \color@endgroup}%
12305 \m@mmf@prepare}
12306 \newcommand{\@TwoColRTLfootnotetext}[1]{%
12307   \bidi@step@absolutefootnote@count
12308 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12309 \global\setbox\footinsv@r\vbox{%
12310   \unvbox\footinsv@r
12311   \@RTLtrue
12312 \def\baselinestretch{\m@m@footnote@spacing}%
12313 \reset@font\RTLfoottextfont
12314 \@preamfntext
12315 \protected@edef\@currentlabel{%
12316   \csname p@footnote\endcsname\@thefnmark}%
12317 \color@begingroup
12318   \@twocolRTLfootfmt{#1}%
12319 \color@endgroup}%
12320 \m@mmf@prepare
12321 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12322 }
12323 \bidi@ensure@newcommand{\@preamtwofmt}{%

```



```

12324 \hsize .45\hsize
12325 \parindent=\z@
12326 \tolerance=5000\relax
12327 \leavevmode}
12328 \bidi@ensure@newcommand{\@twocolfootfmt}[1]{%
12329 \@preamtwofmt
12330 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12331 \bidi@ensure@newcommand{\@twocolLTRfootfmt}[1]{%
12332 \@preamtwofmt
12333 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12334 \bidi@ensure@newcommand{\@twocolRTLfootfmt}[1]{%
12335 \@preamtwofmt
12336 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12337 \bidi@ensure@newcommand{\@mptwocolfootnotetext}[1]{%
12338 \global\setbox
12339 \if@RTL@footnote
12340 \@mpfootinsv@r
12341 \else
12342 \@mpfootinsv@l
12343 \fi
12344 \vbox{%
12345 \unvbox
12346 \if@RTL@footnote
12347 \@mpfootinsv@r
12348 \else
12349 \@mpfootinsv@l
12350 \fi
12351 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12352 \def\baselinestretch{\m@m@footnote@spacing}%
12353 \reset@font\foottextfont
12354 \hsize\columnwidth \@parboxrestore
12355 \protected@edef\@currentlabel{%
12356 \csname p@mpfootnote\endcsname\@thefnmark}%
12357 \color@begingroup
12358 \@twocolfootfmt{#1}%
12359 \color@endgroup}%
12360 \m@m@mmf@prepare}
12361 \newcommand{\@mpTwoColfootnotetext}[1]{%
12362 \if@RTL@footnote
12363 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12364 \else
12365 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12366 \fi
12367 \global\setbox
12368 \if@RTL@footnote
12369 \@mpfootinsv@r
12370 \else
12371 \@mpfootinsv@l
12372 \fi
12373 \vbox{%
12374 \unvbox
12375 \if@RTL@footnote
12376 \@mpfootinsv@r
12377 \else

```



```

12378 \mpfootinsv@l
12379 \fi
12380 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12381 \def\baselinestretch{\m@m@footnote@spacing}%
12382 \reset@font\foottextfont
12383 \hsize\columnwidth \@parboxrestore
12384 \protected@edef\@currentlabel{%
12385 \csname p@mpfootnote\endcsname\@thefnmark}%
12386 \color@begingroup
12387 \@twocolfootfmt{#1}%
12388 \color@endgroup}%
12389 \m@m@mmf@prepare}
12390 \bidi@ensure@newcommand{\@mptwocolLTRfootnotetext}[1]{%
12391 \global\setbox\@mpfootinsv@l\vbox{%
12392 \unvbox\@mpfootinsv@l
12393 \@RTLfalse
12394 \def\baselinestretch{\m@m@footnote@spacing}%
12395 \reset@font\LTRfoottextfont
12396 \hsize\columnwidth \@parboxrestore
12397 \protected@edef\@currentlabel{%
12398 \csname p@mpfootnote\endcsname\@thefnmark}%
12399 \color@begingroup
12400 \@twocolLTRfootfmt{#1}%
12401 \color@endgroup}%
12402 \m@m@mmf@prepare}
12403 \newcommand{\@mpTwoCollTRfootnotetext}[1]{%
12404 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12405 \global\setbox\@mpfootinsv@l\vbox{%
12406 \unvbox\@mpfootinsv@l
12407 \@RTLfalse
12408 \def\baselinestretch{\m@m@footnote@spacing}%
12409 \reset@font\LTRfoottextfont
12410 \hsize\columnwidth \@parboxrestore
12411 \protected@edef\@currentlabel{%
12412 \csname p@mpfootnote\endcsname\@thefnmark}%
12413 \color@begingroup
12414 \@twocolLTRfootfmt{#1}%
12415 \color@endgroup}%
12416 \m@m@mmf@prepare}
12417 \bidi@ensure@newcommand{\@mptwocolRTLfootnotetext}[1]{%
12418 \global\setbox\@mpfootinsv@r\vbox{%
12419 \unvbox\@mpfootinsv@r
12420 \@RTLtrue
12421 \def\baselinestretch{\m@m@footnote@spacing}%
12422 \reset@font\RTLfoottextfont
12423 \hsize\columnwidth \@parboxrestore
12424 \protected@edef\@currentlabel{%
12425 \csname p@mpfootnote\endcsname\@thefnmark}%
12426 \color@begingroup
12427 \@twocolRTLfootfmt{#1}%
12428 \color@endgroup}%
12429 \m@m@mmf@prepare}
12430 \newcommand{\@mpTwoColRTLfootnotetext}[1]{%
12431 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l

```




```

12432 \global\setbox\@mpfootinsv@r\vbox{%
12433   \unvbox\@mpfootinsv@r
12434   \RTLtrue
12435   \def\baselinestretch{\m@m@footnote@spacing}%
12436   \reset@font\RTLfoottextfont
12437   \hsize\columnwidth \@parboxrestore
12438   \protected@edef\@currentlabel{%
12439     \csname p@mpfootnote\endcsname\@thefnmark}%
12440   \color@begingroup
12441     \@twocolRTLfootfmt{#1}%
12442   \color@endgroup}%
12443   \m@m@prepare}
12444 \bidi@ensure@newcommand{\m@make@twocol@footgroup}[1]{%
12445   \@namedef{@twocol@footgroup#1}{%
12446     \def\baselinestretch{\m@m@footnote@spacing}%
12447     \hsize\bidi@columnwidth
12448     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12449     \m@r@rigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}%
12450 \newcommand{\bidi@make@twocol@LTRfootgroup}[1]{%
12451   \@namedef{@twocol@LTRfootgroup#1}{%
12452     \def\baselinestretch{\m@m@footnote@spacing}%
12453     \hsize\bidi@columnwidth
12454     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12455     \bidi@LTR@rigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}%
12456 \bidi@ensure@newcommand{\m@make@mptwocol@footgroup}[1]{%
12457   \@namedef{@mptwocol@footgroup#1}{%
12458     \def\baselinestretch{\m@m@footnote@spacing}%
12459     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12460     \m@r@rigidbalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}%
12461 \newcommand{\bidi@make@mptwocol@LTRfootgroup}[1]{%
12462   \@namedef{@mptwocol@LTRfootgroup#1}{%
12463     \def\baselinestretch{\m@m@footnote@spacing}%
12464     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12465     \bidi@LTR@rigidbalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}%
12466 \bidi@ensure@newcommand{\threecolumnfootnotes}{%
12467   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12468   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12469   \@bidi@before@Hy@hyperfootnotes
12470   \let\@footnotetext\@threecolfootnotetext
12471   \let\@LTRfootnotetext\@threecolLTRfootnotetext
12472   \let\@RTLfootnotetext\@threecolRTLfootnotetext
12473   \dimen\footinsv@r=3\footinsdim
12474   \count\footinsv@r=333\relax
12475   \m@make@threecol@footgroup{v@r}%
12476   \let\@footgroupv@r\@threecol@footgroupv@r
12477   \dimen\footinsv@l=3\footinsdim
12478   \count\footinsv@l=333\relax
12479   \bidi@make@threecol@LTRfootgroup{v@l}%
12480   \let\@LTRfootgroupv@l\@threecol@LTRfootgroupv@l
12481   \let\@mpfootnotetext\@mpthreecolfootnotetext
12482   \let\@mpLTRfootnotetext\@mpthreecolLTRfootnotetext
12483   \let\@mpRTLfootnotetext\@mpthreecolRTLfootnotetext
12484   \@bidi@after@Hy@hyperfootnotes
12485   \m@make@mpthreecol@footgroup{v@r}%

```



```

12486 \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
12487 \bidi@make@mpthreecol@LTRfootgroup{v@l}%
12488 \let\mp@LTRfootgroupv@l\@mpthreecol@LTRfootgroupv@l
12489 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12490 }
12491 \newcommand{\ThreeColumnFootnotes}{%
12492 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12493 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12494 \@bidi@before@Hy@hyperfootnotes
12495 \let\@footnotetext\@ThreeColfootnotetext
12496 \let\@LTRfootnotetext\@ThreeColLTRfootnotetext
12497 \let\@RTLfootnotetext\@ThreeColRTLfootnotetext
12498 \dimen\footinsv@r=3\footinsdim
12499 \count\footinsv@r=333\relax
12500 \m@make@threecol@footgroup{v@r}%
12501 \let\@footgroupv@r\@threecol@footgroupv@r
12502 \dimen\footinsv@l=3\footinsdim
12503 \count\footinsv@l=333\relax
12504 \bidi@make@threecol@LTRfootgroup{v@l}%
12505 \let\@LTRfootgroupv@l\@threecol@LTRfootgroupv@l
12506 \let\@mpfootnotetext\@mpThreeColfootnotetext
12507 \let\@mpLTRfootnotetext\@mpThreeColLTRfootnotetext
12508 \let\@mpRTLfootnotetext\@mpThreeColRTLfootnotetext
12509 \@bidi@after@Hy@hyperfootnotes
12510 \m@make@mpthreecol@footgroup{v@r}%
12511 \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
12512 \bidi@make@mpthreecol@LTRfootgroup{v@l}%
12513 \let\mp@LTRfootgroupv@l\@mpthreecol@LTRfootgroupv@l
12514 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12515 }
12516 \bidi@ensure@newcommand{\@threecolfootnotetext}[1]{\insert
12517 \if@RTL@footnote
12518 \footinsv@r
12519 \else
12520 \footinsv@l
12521 \fi
12522 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12523 \def\baselinestretch{\m@m@footnote@spacing}%
12524 \reset@font\foottextfont
12525 \@preamfntext
12526 \protected@edef\@currentlabel{%
12527 \csname p@footnote\endcsname\@thefnmark}%
12528 \color@begingroup
12529 \@threecolfootfmt{#1}%
12530 \color@endgroup}\m@m@prepare}
12531 \newcommand{\@ThreeColfootnotetext}[1]{%
12532 \bidi@step@absolute@footnote@count
12533 \if@RTL@footnote
12534 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12535 \else
12536 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12537 \fi
12538 \global\setbox
12539 \if@RTL@footnote

```



```

12540 \footinsv@r
12541 \else
12542 \footinsv@l
12543 \fi
12544 \vbox{%
12545 \unvbox
12546 \if@RTL@footnote
12547 \footinsv@r
12548 \else
12549 \footinsv@l
12550 \fi
12551 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12552 \def\baselinestretch{\m@m@footnote@spacing}%
12553 \reset@font\foottextfont
12554 \@preamfntext
12555 \protected@edef\@currentlabel{%
12556 \csname p@footnote\endcsname\@thefnmark}%
12557 \color@begingroup
12558 \@threecolfootfmt{#1}%
12559 \color@endgroup}\m@mmf@prepare
12560 \if@RTL@footnote
12561 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12562 \else
12563 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12564 \fi
12565 }
12566 \bidi@ensure@newcommand{\@threecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12567 \def\baselinestretch{\m@m@footnote@spacing}%
12568 \reset@font\LTRfoottextfont
12569 \@preamfntext
12570 \protected@edef\@currentlabel{%
12571 \csname p@footnote\endcsname\@thefnmark}%
12572 \color@begingroup
12573 \@threecolLTRfootfmt{#1}%
12574 \color@endgroup}\m@mmf@prepare}
12575 \newcommand{\@ThreeColLTRfootnotetext}[1]{%
12576 \bidi@step@absolutefootnote@count
12577 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12578 \global\setbox\footinsv@l\vbox{%
12579 \unvbox\footinsv@l
12580 \@RTLfalse
12581 \def\baselinestretch{\m@m@footnote@spacing}%
12582 \reset@font\LTRfoottextfont
12583 \@preamfntext
12584 \protected@edef\@currentlabel{%
12585 \csname p@footnote\endcsname\@thefnmark}%
12586 \color@begingroup
12587 \@threecolLTRfootfmt{#1}%
12588 \color@endgroup}\m@mmf@prepare
12589 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12590 }
12591 \bidi@ensure@newcommand{\@threecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12592 \def\baselinestretch{\m@m@footnote@spacing}%
12593 \reset@font\RTLfoottextfont

```



```

12594 \@preamfntext
12595 \protected@edef\@currentlabel{%
12596   \csname p@footnote\endcsname\@thefnmark}%
12597 \color@begingroup
12598   \@threecolRTLfootfmt{#1}%
12599 \color@endgroup}\m@mmf@prepare}
12600 \newcommand{\@ThreeColRTLfootnotetext}[1]{%
12601   \bidi@step@absolute@footnote@count
12602   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12603   \global\setbox\footinsv@r\vbox{%
12604     \unvbox\footinsv@r
12605     \@RTLtrue
12606     \def\baselinestretch{\m@m@footnote@spacing}%
12607     \reset@font\RTLfoottextfont
12608     \@preamfntext
12609     \protected@edef\@currentlabel{%
12610       \csname p@footnote\endcsname\@thefnmark}%
12611     \color@begingroup
12612       \@threecolRTLfootfmt{#1}%
12613     \color@endgroup}\m@mmf@prepare
12614     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12615   }
12616 \bidi@ensure@newcommand{\@preamthreefmt}{%
12617   \hspace{.3\hspace}
12618   \parindent=\z@
12619   \tolerance=5000\relax
12620   \leavevmode}
12621 \bidi@ensure@newcommand{\@threecolfootfmt}[1]{%
12622   \@preamthreefmt
12623   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12624 \bidi@ensure@newcommand{\@threecolLTRfootfmt}[1]{%
12625   \@preamthreefmt
12626   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12627 \bidi@ensure@newcommand{\@threecolRTLfootfmt}[1]{%
12628   \@preamthreefmt
12629   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12630 \bidi@ensure@newcommand{\@mpthreecolfootnotetext}[1]{%
12631   \global\setbox
12632     \if@RTL@footnote
12633     \@mpfootinsv@r
12634   \else
12635     \@mpfootinsv@l
12636   \fi
12637   \vbox{%
12638     \unvbox
12639     \if@RTL@footnote
12640     \@mpfootinsv@r
12641   \else
12642     \@mpfootinsv@l
12643   \fi
12644   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12645   \def\baselinestretch{\m@m@footnote@spacing}%
12646   \reset@font\foottextfont
12647   \hspace\columnwidth \@parboxrestore

```



```

12648 \protected@edef\@currentlabel{%
12649 \csname p@mpfootnote\endcsname\@thefnmark}%
12650 \color@begingroup
12651 \@threecolfootfmt{#1}%
12652 \color@endgroup}\m@mmf@prepare}
12653 \newcommand{\@mpThreeColfootnotetext}[1]{%
12654 \if@RTL@footnote
12655 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12656 \else
12657 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12658 \fi
12659 \global\setbox
12660 \if@RTL@footnote
12661 \@mpfootinsv@r
12662 \else
12663 \@mpfootinsv@l
12664 \fi
12665 \vbox{%
12666 \unvbox
12667 \if@RTL@footnote
12668 \@mpfootinsv@r
12669 \else
12670 \@mpfootinsv@l
12671 \fi
12672 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12673 \def\baselinestretch{\m@m@footnote@spacing}%
12674 \reset@font\foottextfont
12675 \hsize\columnwidth \@parboxrestore
12676 \protected@edef\@currentlabel{%
12677 \csname p@mpfootnote\endcsname\@thefnmark}%
12678 \color@begingroup
12679 \@threecolfootfmt{#1}%
12680 \color@endgroup}\m@mmf@prepare}
12681 \bidi@ensure@newcommand{\@mpthreecolLTRfootnotetext}[1]{%
12682 \global\setbox\@mpfootinsv@l\vbox{%
12683 \unvbox\@mpfootinsv@l
12684 \@RTLfalse
12685 \def\baselinestretch{\m@m@footnote@spacing}%
12686 \reset@font\LTRfoottextfont
12687 \hsize\columnwidth \@parboxrestore
12688 \protected@edef\@currentlabel{%
12689 \csname p@mpfootnote\endcsname\@thefnmark}%
12690 \color@begingroup
12691 \@threecolLTRfootfmt{#1}%
12692 \color@endgroup}\m@mmf@prepare}
12693 \newcommand{\@mpThreeColLTRfootnotetext}[1]{%
12694 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12695 \global\setbox\@mpfootinsv@l\vbox{%
12696 \unvbox\@mpfootinsv@l
12697 \@RTLfalse
12698 \def\baselinestretch{\m@m@footnote@spacing}%
12699 \reset@font\LTRfoottextfont
12700 \hsize\columnwidth \@parboxrestore
12701 \protected@edef\@currentlabel{%

```



```

12702      \csname p@mpfootnote\endcsname\@thefnmark}%
12703 \color@begingroup
12704      \@threecolLTRfootfmt{#1}%
12705 \color@endgroup}\m@mmf@prepare}
12706 \bidi@ensure@newcommand{\@mpthreecolRTLfootnotetext}[1]{%
12707 \global\setbox\@mpfootinsv@r\vbox{%
12708 \unvbox\@mpfootinsv@r
12709 \RTLtrue
12710 \def\baselinestretch{\m@m@footnote@spacing}%
12711 \reset@font\RTLfoottextfont
12712 \hsize\columnwidth \@parboxrestore
12713 \protected@edef\@currentlabel{%
12714 \csname p@mpfootnote\endcsname\@thefnmark}%
12715 \color@begingroup
12716      \@threecolRTLfootfmt{#1}%
12717 \color@endgroup}\m@mmf@prepare}
12718 \newcommand{\@mpThreeColRTLfootnotetext}[1]{%
12719 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12720 \global\setbox\@mpfootinsv@r\vbox{%
12721 \unvbox\@mpfootinsv@r
12722 \RTLtrue
12723 \def\baselinestretch{\m@m@footnote@spacing}%
12724 \reset@font\RTLfoottextfont
12725 \hsize\columnwidth \@parboxrestore
12726 \protected@edef\@currentlabel{%
12727 \csname p@mpfootnote\endcsname\@thefnmark}%
12728 \color@begingroup
12729      \@threecolRTLfootfmt{#1}%
12730 \color@endgroup}\m@mmf@prepare}
12731 \bidi@ensure@newcommand{\m@make@threecol@footgroup}[1]{%
12732 \@namedef{\@threecol@footgroup#1}{\{
12733 \def\baselinestretch{\m@m@footnote@spacing}%
12734 \hsize\bidi@columnwidth
12735 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12736 \m@mrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}}
12737 \newcommand{\bidi@make@threecol@LTRfootgroup}[1]{%
12738 \@namedef{\@threecol@LTRfootgroup#1}{\{
12739 \def\baselinestretch{\m@m@footnote@spacing}%
12740 \hsize\bidi@columnwidth
12741 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12742 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}}
12743 \bidi@ensure@newcommand{\m@make@mpthreecol@footgroup}[1]{%
12744 \@namedef{\@mpthreecol@footgroup#1}{\{
12745 \def\baselinestretch{\m@m@footnote@spacing}%
12746 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12747 \m@mrigidbalance{\@nameuse{\@mpfootins#1}}{\thr@@}{\splittopskip}}}}
12748 \newcommand{\bidi@make@mpthreecol@LTRfootgroup}[1]{%
12749 \@namedef{\@mpthreecol@LTRfootgroup#1}{\{
12750 \def\baselinestretch{\m@m@footnote@spacing}%
12751 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12752 \bidi@LTRrigidbalance{\@nameuse{\@mpfootins#1}}{\thr@@}{\splittopskip}}}}
12753 \bidi@ensure@newcommand{\fourcolumnfootnotes}{%
12754 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12755 \@namedef{foottextfontv@l}{\LTRfoottextfont}%

```



```

12756 \@bidi@before@Hy@hyperfootnotes
12757 \let\@footnotetext\@fourcolfootnotetext
12758 \let\@LTRfootnotetext\@fourcolLTRfootnotetext
12759 \let\@RTLfootnotetext\@fourcolRTLfootnotetext
12760 \dimen\footinsv@r=4\footinsdim
12761 \count\footinsv@r=250\relax
12762 \m@make@fourcol@footgroup{v@r}%
12763 \let\@footgroupv@r\@fourcol@footgroupv@r
12764 \dimen\footinsv@l=4\footinsdim
12765 \count\footinsv@l=250\relax
12766 \bidi@make@fourcol@LTRfootgroup{v@l}%
12767 \let\@LTRfootgroupv@l\@fourcol@LTRfootgroupv@l
12768 \let\@mpfootnotetext\@mpfourcolfootnotetext
12769 \let\@mpLTRfootnotetext\@mpfourcolLTRfootnotetext
12770 \let\@mpRTLfootnotetext\@mpfourcolRTLfootnotetext
12771 \@bidi@after@Hy@hyperfootnotes
12772 \m@make@mpfourcol@footgroup{v@r}%
12773 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
12774 \bidi@make@mpfourcol@LTRfootgroup{v@l}%
12775 \let\mp@LTRfootgroupv@l\@mpfourcol@LTRfootgroupv@l
12776 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12777 }
12778 \newcommand{\FourColumnFootnotes}{%
12779 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12780 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12781 \@bidi@before@Hy@hyperfootnotes
12782 \let\@footnotetext\@FourColfootnotetext
12783 \let\@LTRfootnotetext\@FourColLTRfootnotetext
12784 \let\@RTLfootnotetext\@FourColRTLfootnotetext
12785 \dimen\footinsv@r=4\footinsdim
12786 \count\footinsv@r=250\relax
12787 \m@make@fourcol@footgroup{v@r}%
12788 \let\@footgroupv@r\@fourcol@footgroupv@r
12789 \dimen\footinsv@l=4\footinsdim
12790 \count\footinsv@l=250\relax
12791 \bidi@make@fourcol@LTRfootgroup{v@l}%
12792 \let\@LTRfootgroupv@l\@fourcol@LTRfootgroupv@l
12793 \let\@mpfootnotetext\@mpFourColfootnotetext
12794 \let\@mpLTRfootnotetext\@mpFourColLTRfootnotetext
12795 \let\@mpRTLfootnotetext\@mpFourColRTLfootnotetext
12796 \@bidi@after@Hy@hyperfootnotes
12797 \m@make@mpfourcol@footgroup{v@r}%
12798 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
12799 \bidi@make@mpfourcol@LTRfootgroup{v@l}%
12800 \let\mp@LTRfootgroupv@l\@mpfourcol@LTRfootgroupv@l
12801 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12802 }
12803 \bidi@ensure@newcommand{\@fourcolfootnotetext}[1]{\insert
12804 \if@RTL@footnote
12805 \footinsv@r
12806 \else
12807 \footinsv@l
12808 \fi
12809 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%

```



```

12810 \def\baselinestretch{\m@m@footnote@spacing}%
12811 \reset@font\foottextfont
12812 \@preamfntext
12813 \protected@edef\@currentlabel{%
12814   \csname p@footnote\endcsname\@thefnmark}%
12815 \color@begingroup
12816   \@fourcolfootfmt{#1}%
12817 \color@endgroup}%
12818 \m@mmf@prepare}
12819 \newcommand{\@FourColfootnotetext}[1]{%
12820   \bidi@step@absolute@footnote@count
12821   \if@RTL@footnote
12822     \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12823   \else
12824     \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12825   \fi
12826   \global\setbox
12827   \if@RTL@footnote
12828     \footinsv@r
12829   \else
12830     \footinsv@l
12831   \fi
12832   \vbox{%
12833     \unvbox
12834     \if@RTL@footnote
12835       \footinsv@r
12836     \else
12837       \footinsv@l
12838     \fi
12839     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12840   \def\baselinestretch{\m@m@footnote@spacing}%
12841   \reset@font\foottextfont
12842   \@preamfntext
12843   \protected@edef\@currentlabel{%
12844     \csname p@footnote\endcsname\@thefnmark}%
12845   \color@begingroup
12846     \@fourcolfootfmt{#1}%
12847   \color@endgroup}%
12848   \m@mmf@prepare
12849   \if@RTL@footnote
12850     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12851   \else
12852     \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12853   \fi
12854 }
12855 \bidi@ensure@newcommand{\@fourcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12856 \def\baselinestretch{\m@m@footnote@spacing}%
12857 \reset@font\LTRfoottextfont
12858 \@preamfntext
12859 \protected@edef\@currentlabel{%
12860   \csname p@footnote\endcsname\@thefnmark}%
12861 \color@begingroup
12862   \@fourcolLTRfootfmt{#1}%
12863 \color@endgroup}%

```




```

12864 \m@mmf@prepare}
12865 \newcommand{\@FourColLTRfootnotetext}[1]{%
12866 \bidi@step@absolutefootnote@count
12867 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12868 \global\setbox\footinsv@l\vbox{%
12869 \unvbox\footinsv@l
12870 \RTLfalse%
12871 \def\baselinestretch{\m@m@footnote@spacing}%
12872 \reset@font\LTRfoottextfont
12873 \@preamfntext
12874 \protected@edef\@currentlabel{%
12875 \csname p@footnote\endcsname\@thefnmark}%
12876 \color@begingroup
12877 \@fourcolLTRfootfmt{#1}%
12878 \color@endgroup}%
12879 \m@mmf@prepare
12880 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12881 }
12882 \bidi@ensure@newcommand{\@fourcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12883 \def\baselinestretch{\m@m@footnote@spacing}%
12884 \reset@font\RTLfoottextfont
12885 \@preamfntext
12886 \protected@edef\@currentlabel{%
12887 \csname p@footnote\endcsname\@thefnmark}%
12888 \color@begingroup
12889 \@fourcolRTLfootfmt{#1}%
12890 \color@endgroup}%
12891 \m@mmf@prepare}
12892 \newcommand{\@FourColRTLfootnotetext}[1]{%
12893 \bidi@step@absolutefootnote@count
12894 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12895 \global\setbox\footinsv@r\vbox{%
12896 \unvbox\footinsv@r
12897 \RTLtrue
12898 \def\baselinestretch{\m@m@footnote@spacing}%
12899 \reset@font\RTLfoottextfont
12900 \@preamfntext
12901 \protected@edef\@currentlabel{%
12902 \csname p@footnote\endcsname\@thefnmark}%
12903 \color@begingroup
12904 \@fourcolRTLfootfmt{#1}%
12905 \color@endgroup}%
12906 \m@mmf@prepare
12907 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12908 }
12909 \bidi@ensure@newcommand{\@preamfourfmt}{%
12910 \hsize .25\hsize
12911 \parindent=\z@
12912 \tolerance=5000\relax
12913 \leavevmode}
12914 \bidi@ensure@newcommand{\@fourcolfootfmt}[1]{%
12915 \@preamfourfmt
12916 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12917 \bidi@ensure@newcommand{\@fourcolLTRfootfmt}[1]{%

```



```

12918 \@preamfourfmt
12919 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12920 \bidi@ensure@newcommand{\@fourcolRTLfootfmt}[1]{%
12921 \@preamfourfmt
12922 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12923 \bidi@ensure@newcommand{\@mpfourcolfootnotetext}[1]{%
12924 \global\setbox
12925 \if@RTL@footnote
12926 \@mpfootinsv@r
12927 \else
12928 \@mpfootinsv@l
12929 \fi
12930 \vbox{%
12931 \unvbox
12932 \if@RTL@footnote
12933 \@mpfootinsv@r
12934 \else
12935 \@mpfootinsv@l
12936 \fi
12937 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12938 \def\baselinestretch{\m@m@footnote@spacing}%
12939 \reset@font\foottextfont
12940 \hsize\columnwidth \@parboxrestore
12941 \protected@edef\@currentlabel{%
12942 \csname p@mpfootnote\endcsname\@thefnmark}%
12943 \color@begingroup
12944 \@fourcolfootfmt{#1}%
12945 \color@endgroup}%
12946 \m@m@f@prepare}
12947 \newcommand{\@mpFourColfootnotetext}[1]{%
12948 \if@RTL@footnote
12949 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12950 \else
12951 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12952 \fi
12953 \global\setbox
12954 \if@RTL@footnote
12955 \@mpfootinsv@r
12956 \else
12957 \@mpfootinsv@l
12958 \fi
12959 \vbox{%
12960 \unvbox
12961 \if@RTL@footnote
12962 \@mpfootinsv@r
12963 \else
12964 \@mpfootinsv@l
12965 \fi
12966 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12967 \def\baselinestretch{\m@m@footnote@spacing}%
12968 \reset@font\foottextfont
12969 \hsize\columnwidth \@parboxrestore
12970 \protected@edef\@currentlabel{%
12971 \csname p@mpfootnote\endcsname\@thefnmark}%

```



```

12972 \color@begingroup
12973 \@fourcolfootfmt{#1}%
12974 \color@endgroup}%
12975 \m@mmf@prepare}
12976 \bidi@ensure@newcommand{\@mpfourcolLTRfootnotetext}[1]{%
12977 \global\setbox\@mpfootinsv@l\vbox{%
12978 \unvbox\@mpfootinsv@l
12979 \@RTLfalse
12980 \def\baselinestretch{\m@m@footnote@spacing}%
12981 \reset@font\LTRfoottextfont
12982 \hsize\columnwidth \@parboxrestore
12983 \protected@edef\@currentlabel{%
12984 \csname p@mpfootnote\endcsname\@thefnmark}%
12985 \color@begingroup
12986 \@fourcolLTRfootfmt{#1}%
12987 \color@endgroup}%
12988 \m@mmf@prepare}
12989 \newcommand{\@mpFourColLTRfootnotetext}[1]{%
12990 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12991 \global\setbox\@mpfootinsv@l\vbox{%
12992 \unvbox\@mpfootinsv@l
12993 \@RTLfalse
12994 \def\baselinestretch{\m@m@footnote@spacing}%
12995 \reset@font\LTRfoottextfont
12996 \hsize\columnwidth \@parboxrestore
12997 \protected@edef\@currentlabel{%
12998 \csname p@mpfootnote\endcsname\@thefnmark}%
12999 \color@begingroup
13000 \@fourcolLTRfootfmt{#1}%
13001 \color@endgroup}%
13002 \m@mmf@prepare}
13003 \bidi@ensure@newcommand{\@mpfourcolRTLfootnotetext}[1]{%
13004 \global\setbox\@mpfootinsv@r\vbox{%
13005 \unvbox\@mpfootinsv@r
13006 \@RTLtrue
13007 \def\baselinestretch{\m@m@footnote@spacing}%
13008 \reset@font\RTLfoottextfont
13009 \hsize\columnwidth \@parboxrestore
13010 \protected@edef\@currentlabel{%
13011 \csname p@mpfootnote\endcsname\@thefnmark}%
13012 \color@begingroup
13013 \@fourcolRTLfootfmt{#1}%
13014 \color@endgroup}%
13015 \m@mmf@prepare}
13016 \newcommand{\@mpFourColRTLfootnotetext}[1]{%
13017 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13018 \global\setbox\@mpfootinsv@r\vbox{%
13019 \unvbox\@mpfootinsv@r
13020 \@RTLtrue
13021 \def\baselinestretch{\m@m@footnote@spacing}%
13022 \reset@font\RTLfoottextfont
13023 \hsize\columnwidth \@parboxrestore
13024 \protected@edef\@currentlabel{%
13025 \csname p@mpfootnote\endcsname\@thefnmark}%

```



```

13026 \color@begingroup
13027 \@fourcolRTLfootfmt{#1}%
13028 \color@endgroup}%
13029 \m@mmf@prepare}
13030 \bidi@ensure@newcommand{\m@make@fourcol@footgroup}[1]{%
13031 \@namedef{\@fourcol@footgroup#1}{%
13032 \def\baselinestretch{\m@m@footnote@spacing}%
13033 \hsize\bidi@columnwidth
13034 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13035 \m@mrigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}}
13036 \newcommand{\bidi@make@fourcol@LTRfootgroup}[1]{%
13037 \@namedef{\@fourcol@LTRfootgroup#1}{%
13038 \def\baselinestretch{\m@m@footnote@spacing}%
13039 \hsize\bidi@columnwidth
13040 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13041 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}}
13042 \bidi@ensure@newcommand{\m@make@mpfourcol@footgroup}[1]{%
13043 \@namedef{\@mpfourcol@footgroup#1}{%
13044 \def\baselinestretch{\m@m@footnote@spacing}%
13045 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13046 \m@mrigidbalance{\@nameuse{\@mpfootins#1}}{4}{\splittopskip}}}}
13047 \newcommand{\bidi@make@mpfourcol@LTRfootgroup}[1]{%
13048 \@namedef{\@mpfourcol@LTRfootgroup#1}{%
13049 \def\baselinestretch{\m@m@footnote@spacing}%
13050 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13051 \bidi@LTRrigidbalance{\@nameuse{\@mpfootins#1}}{4}{\splittopskip}}}}
13052 \bidi@ensure@newcommand{\fivecolumnfootnotes}{%
13053 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13054 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13055 \@bidi@before@Hy@hyperfootnotes
13056 \let\@footnotetext\@fivecolfootnotetext
13057 \let\@LTRfootnotetext\@fivecolLTRfootnotetext
13058 \let\@RTLfootnotetext\@fivecolRTLfootnotetext
13059 \dimen\footinsv@r=5\footinsdim
13060 \count\footinsv@r=200\relax
13061 \m@make@fivecol@footgroup{v@r}%
13062 \let\@footgroupv@r\@fivecol@footgroupv@r
13063 \dimen\footinsv@l=5\footinsdim
13064 \count\footinsv@l=200\relax
13065 \bidi@make@fivecol@LTRfootgroup{v@l}%
13066 \let\@LTRfootgroupv@l\@fivecol@LTRfootgroupv@l
13067 \let\@mpfootnotetext\@mpfivecolfootnotetext
13068 \let\@mpLTRfootnotetext\@mpfivecolLTRfootnotetext
13069 \let\@mpRTLfootnotetext\@mpfivecolRTLfootnotetext
13070 \@bidi@after@Hy@hyperfootnotes
13071 \m@make@mpfivecol@footgroup{v@r}%
13072 \let\@mp@footgroupv@r\@mpfivecol@footgroupv@r
13073 \bidi@make@mpfivecol@LTRfootgroup{v@l}%
13074 \let\@mp@LTRfootgroupv@l\@mpfivecol@LTRfootgroupv@l
13075 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13076 }
13077 \newcommand{\FiveColumnFootnotes}{%
13078 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13079 \@namedef{foottextfontv@l}{\LTRfoottextfont}%

```



```

13080 \@bidi@before@Hy@hyperfootnotes
13081 \let\@footnotetext\@FiveColfootnotetext
13082 \let\@LTRfootnotetext\@FiveColLTRfootnotetext
13083 \let\@RTLfootnotetext\@FiveColRTLfootnotetext
13084 \dimen\footinsv@r=5\footinsdim
13085 \count\footinsv@r=200\relax
13086 \m@make@fivecol@footgroup{v@r}%
13087 \let\@footgroupv@r\@fivecol@footgroupv@r
13088 \dimen\footinsv@l=5\footinsdim
13089 \count\footinsv@l=200\relax
13090 \bidi@make@fivecol@LTRfootgroup{v@l}%
13091 \let\@LTRfootgroupv@l\@fivecol@LTRfootgroupv@l
13092 \let\@mpfootnotetext\@mpFiveColfootnotetext
13093 \let\@mpLTRfootnotetext\@mpFiveColLTRfootnotetext
13094 \let\@mpRTLfootnotetext\@mpFiveColRTLfootnotetext
13095 \@bidi@after@Hy@hyperfootnotes
13096 \m@make@mpfivecol@footgroup{v@r}%
13097 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
13098 \bidi@make@mpfivecol@LTRfootgroup{v@l}%
13099 \let\mp@LTRfootgroupv@l\@mpfivecol@LTRfootgroupv@l
13100 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13101 }
13102 \bidi@ensure@newcommand{\@fivecolfootnotetext}[1]{\insert
13103   \if@RTL@footnote
13104     \footinsv@r
13105   \else
13106     \footinsv@l
13107   \fi
13108 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13109   \def\baselinestretch{\m@footnote@spacing}%
13110   \reset@font\foottextfont
13111   \@preamfntext
13112   \protected@edef\@currentlabel{%
13113     \csname p@footnote\endcsname\@thefnmark}%
13114   \color@begingroup
13115     \@fivecolfootfmt{#1}%
13116   \color@endgroup}%
13117   \m@mmf@prepare}
13118 \newcommand{\@FiveColfootnotetext}[1]{%
13119   \bidi@step@absolutefootnote@count
13120   \if@RTL@footnote
13121     \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13122   \else
13123     \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13124   \fi
13125   \global\setbox
13126   \if@RTL@footnote
13127     \footinsv@r
13128   \else
13129     \footinsv@l
13130   \fi
13131   \vbox{%
13132     \unvbox
13133     \if@RTL@footnote

```



```

13134 \footinsv@r
13135 \else
13136 \footinsv@l
13137 \fi
13138 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13139 \def\baselinestretch{\m@m@footnote@spacing}%
13140 \reset@font\foottextfont
13141 \@preamfntext
13142 \protected@edef\@currentlabel{%
13143 \csname p@footnote\endcsname\@thefnmark}%
13144 \color@begingroup
13145 \@fivecolfootfmt{#1}%
13146 \color@endgroup}%
13147 \m@m@mmf@prepare
13148 \if@RTL@footnote
13149 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13150 \else
13151 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13152 \fi
13153 }
13154 \bidi@ensure@newcommand{\@fivecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13155 \def\baselinestretch{\m@m@footnote@spacing}%
13156 \reset@font\LTRfoottextfont
13157 \@preamfntext
13158 \protected@edef\@currentlabel{%
13159 \csname p@footnote\endcsname\@thefnmark}%
13160 \color@begingroup
13161 \@fivecolLTRfootfmt{#1}%
13162 \color@endgroup}%
13163 \m@m@mmf@prepare}
13164 \newcommand{\@FiveColLTRfootnotetext}[1]{%
13165 \bidi@step@absolute@footnote@count
13166 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13167 \global\setbox\footinsv@l\vbox{%
13168 \unvbox\footinsv@l
13169 \@RTLfalse
13170 \def\baselinestretch{\m@m@footnote@spacing}%
13171 \reset@font\LTRfoottextfont
13172 \@preamfntext
13173 \protected@edef\@currentlabel{%
13174 \csname p@footnote\endcsname\@thefnmark}%
13175 \color@begingroup
13176 \@fivecolLTRfootfmt{#1}%
13177 \color@endgroup}%
13178 \m@m@mmf@prepare
13179 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13180 }
13181 \bidi@ensure@newcommand{\@fivecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13182 \def\baselinestretch{\m@m@footnote@spacing}%
13183 \reset@font\RTLfoottextfont
13184 \@preamfntext
13185 \protected@edef\@currentlabel{%
13186 \csname p@footnote\endcsname\@thefnmark}%
13187 \color@begingroup

```



```

13188 \fivecolRTLfootfmt{#1}%
13189 \color@endgroup}%
13190 \m@mmf@prepare}
13191 \newcommand{\@FiveColRTLfootnotetext}[1]{%
13192 \bidi@step@absolute@footnote@count
13193 \bidi@reinsert@footnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13194 \global\setbox\footinsv@r\vbox{%
13195 \unvbox\footinsv@r
13196 \RTLtrue
13197 \def\baselinestretch{\m@m@footnote@spacing}%
13198 \reset@font\RTLfoottextfont
13199 \@preamfntext
13200 \protected@edef\@currentlabel{%
13201 \csname p@footnote\endcsname\@thefnmark}%
13202 \color@begingroup
13203 \fivecolRTLfootfmt{#1}%
13204 \color@endgroup}%
13205 \m@mmf@prepare
13206 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13207 }
13208 \bidi@ensure@newcommand{\@preamfivefmt}{%
13209 \hspace{.2\hspace}
13210 \parindent=\z@
13211 \tolerance=5000\relax
13212 \leavevmode}
13213 \bidi@ensure@newcommand{\@fivecolfootfmt}[1]{%
13214 \@preamfivefmt
13215 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13216 \bidi@ensure@newcommand{\@fivecolLTRfootfmt}[1]{%
13217 \@preamfivefmt
13218 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13219 \bidi@ensure@newcommand{\@fivecolRTLfootfmt}[1]{%
13220 \@preamfivefmt
13221 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13222 \bidi@ensure@newcommand{\@mpfivecolfootnotetext}[1]{%
13223 \global\setbox
13224 \if@RTL@footnote
13225 \@mpfootinsv@r
13226 \else
13227 \@mpfootinsv@l
13228 \fi
13229 \vbox{%
13230 \unvbox
13231 \if@RTL@footnote
13232 \@mpfootinsv@r
13233 \else
13234 \@mpfootinsv@l
13235 \fi
13236 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13237 \def\baselinestretch{\m@m@footnote@spacing}%
13238 \reset@font\foottextfont
13239 \hspace\columnwidth \@parboxrestore
13240 \protected@edef\@currentlabel{%
13241 \csname p@mpfootnote\endcsname\@thefnmark}%

```



```

13242 \color@begingroup
13243 \@fivecolfootfmt{#1}%
13244 \color@endgroup}%
13245 \m@mmf@prepare}
13246 \newcommand{\@mpFiveColfootnotetext}[1]{%
13247 \if@RTL@footnote
13248 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13249 \else
13250 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13251 \fi
13252 \global\setbox
13253 \if@RTL@footnote
13254 \@mpfootinsv@r
13255 \else
13256 \@mpfootinsv@l
13257 \fi
13258 \vbox{%
13259 \unvbox
13260 \if@RTL@footnote
13261 \@mpfootinsv@r
13262 \else
13263 \@mpfootinsv@l
13264 \fi
13265 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13266 \def\baselinestretch{\m@m@footnote@spacing}%
13267 \reset@font\foottextfont
13268 \hsize\columnwidth \@parboxrestore
13269 \protected@edef\@currentlabel{%
13270 \csname p@mpfootnote\endcsname\@thefnmark}%
13271 \color@begingroup
13272 \@fivecolfootfmt{#1}%
13273 \color@endgroup}%
13274 \m@mmf@prepare}
13275 \bidi@ensure@newcommand{\@mpfivecolLTRfootnotetext}[1]{%
13276 \global\setbox\@mpfootinsv@l\vbox{%
13277 \unvbox\@mpfootinsv@l
13278 \@RTLfalse
13279 \def\baselinestretch{\m@m@footnote@spacing}%
13280 \reset@font\LTRfoottextfont
13281 \hsize\columnwidth \@parboxrestore
13282 \protected@edef\@currentlabel{%
13283 \csname p@mpfootnote\endcsname\@thefnmark}%
13284 \color@begingroup
13285 \@fivecolLTRfootfmt{#1}%
13286 \color@endgroup}%
13287 \m@mmf@prepare}
13288 \newcommand{\@mpFiveColLTRfootnotetext}[1]{%
13289 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13290 \global\setbox\@mpfootinsv@l\vbox{%
13291 \unvbox\@mpfootinsv@l
13292 \@RTLfalse
13293 \def\baselinestretch{\m@m@footnote@spacing}%
13294 \reset@font\LTRfoottextfont
13295 \hsize\columnwidth \@parboxrestore

```




```

13296 \protected@edef\@currentlabel{%
13297 \csname p@mpfootnote\endcsname\@thefnmark}%
13298 \color@begingroup
13299 \@fivecolLTRfootfmt{#1}%
13300 \color@endgroup}%
13301 \m@mmf@prepare}
13302 \bidi@ensure@newcommand{\@mpfivecolRTLfootnotetext}[1]{%
13303 \global\setbox\@mpfootinsv@r\vbox{%
13304 \unvbox\@mpfootinsv@r
13305 \@RTLtrue
13306 \def\baselinestretch{\m@m@footnote@spacing}%
13307 \reset@font\RTLfoottextfont
13308 \hsize\columnwidth \@parboxrestore
13309 \protected@edef\@currentlabel{%
13310 \csname p@mpfootnote\endcsname\@thefnmark}%
13311 \color@begingroup
13312 \@fivecolRTLfootfmt{#1}%
13313 \color@endgroup}%
13314 \m@mmf@prepare}
13315 \newcommand{\@mpFiveColRTLfootnotetext}[1]{%
13316 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13317 \global\setbox\@mpfootinsv@r\vbox{%
13318 \unvbox\@mpfootinsv@r
13319 \@RTLtrue
13320 \def\baselinestretch{\m@m@footnote@spacing}%
13321 \reset@font\RTLfoottextfont
13322 \hsize\columnwidth \@parboxrestore
13323 \protected@edef\@currentlabel{%
13324 \csname p@mpfootnote\endcsname\@thefnmark}%
13325 \color@begingroup
13326 \@fivecolRTLfootfmt{#1}%
13327 \color@endgroup}%
13328 \m@mmf@prepare}
13329 \bidi@ensure@newcommand{\m@make@fivecol@footgroup}[1]{%
13330 \@namedef{@fivecol@footgroup#1}{%
13331 \def\baselinestretch{\m@m@footnote@spacing}%
13332 \hsize\bidi@columnwidth
13333 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13334 \m@mrigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}}
13335 \newcommand{\bidi@make@fivecol@LTRfootgroup}[1]{%
13336 \@namedef{@fivecol@LTRfootgroup#1}{%
13337 \def\baselinestretch{\m@m@footnote@spacing}%
13338 \hsize\bidi@columnwidth
13339 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13340 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}}
13341 \bidi@ensure@newcommand{\m@make@mpfivecol@footgroup}[1]{%
13342 \@namedef{@mpfivecol@footgroup#1}{%
13343 \def\baselinestretch{\m@m@footnote@spacing}%
13344 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13345 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{5}{\splittopskip}}}}
13346 \newcommand{\bidi@make@mpfivecol@LTRfootgroup}[1]{%
13347 \@namedef{@mpfivecol@LTRfootgroup#1}{%
13348 \def\baselinestretch{\m@m@footnote@spacing}%
13349 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox

```



```

13350 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{5}{\splittopskip}}
13351 \bidi@ensure@newcommand{\sixcolumnfootnotes}{%
13352 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13353 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13354 \@bidi@before@Hy@hyperfootnotes
13355 \let\@footnotetext\@sixcolfootnotetext
13356 \let\@LTRfootnotetext\@sixcolLTRfootnotetext
13357 \let\@RTLfootnotetext\@sixcolRTLfootnotetext
13358 \dimen\footinsv@r=6\footinsdim
13359 \count\footinsv@r=166\relax
13360 \m@make@sixcol@footgroup{v@r}%
13361 \let\@footgroupv@r\@sixcol@footgroupv@r
13362 \dimen\footinsv@l=6\footinsdim
13363 \count\footinsv@l=166\relax
13364 \bidi@make@sixcol@LTRfootgroup{v@l}%
13365 \let\@LTRfootgroupv@l\@sixcol@LTRfootgroupv@l
13366 \let\@mpfootnotetext\@mpsixcolfootnotetext
13367 \let\@mpLTRfootnotetext\@mpsixcolLTRfootnotetext
13368 \let\@mpRTLfootnotetext\@mpsixcolRTLfootnotetext
13369 \@bidi@after@Hy@hyperfootnotes
13370 \m@make@mpsixcol@footgroup{v@r}%
13371 \let\mp@footgroupv@r\@mpsixcol@footgroupv@r
13372 \bidi@make@mpsixcol@LTRfootgroup{v@l}%
13373 \let\mp@LTRfootgroupv@l\@mpsixcol@LTRfootgroupv@l
13374 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13375 }
13376 \newcommand{\SixColumnFootnotes}{%
13377 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13378 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13379 \@bidi@before@Hy@hyperfootnotes
13380 \let\@footnotetext\@SixColfootnotetext
13381 \let\@LTRfootnotetext\@SixColLTRfootnotetext
13382 \let\@RTLfootnotetext\@SixColRTLfootnotetext
13383 \dimen\footinsv@r=6\footinsdim
13384 \count\footinsv@r=166\relax
13385 \m@make@sixcol@footgroup{v@r}%
13386 \let\@footgroupv@r\@sixcol@footgroupv@r
13387 \dimen\footinsv@l=6\footinsdim
13388 \count\footinsv@l=166\relax
13389 \bidi@make@sixcol@LTRfootgroup{v@l}%
13390 \let\@LTRfootgroupv@l\@sixcol@LTRfootgroupv@l
13391 \let\@mpfootnotetext\@mpSixColfootnotetext
13392 \let\@mpLTRfootnotetext\@mpSixColLTRfootnotetext
13393 \let\@mpRTLfootnotetext\@mpSixColRTLfootnotetext
13394 \@bidi@after@Hy@hyperfootnotes
13395 \m@make@mpsixcol@footgroup{v@r}%
13396 \let\mp@footgroupv@r\@mpsixcol@footgroupv@r
13397 \bidi@make@mpsixcol@LTRfootgroup{v@l}%
13398 \let\mp@LTRfootgroupv@l\@mpsixcol@LTRfootgroupv@l
13399 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13400 }
13401 \bidi@ensure@newcommand{\@sixcolfootnotetext}[1]{\insert
13402 \if@RTL@footnote
13403 \footinsv@r

```



```

13404 \else
13405 \footinsv@l
13406 \fi
13407 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13408 \def\baselinestretch{\m@{footnote@spacing}%
13409 \reset@font\foottextfont
13410 \@preamfntext
13411 \protected@edef\@currentlabel{%
13412 \csname p@footnote\endcsname\@thefnmark}%
13413 \color@begingroup
13414 \@sixcolfootfmt{#1}%
13415 \color@endgroup}%
13416 \m@{mmf@prepare}
13417 \newcommand{\@SixColfootnotetext}[1]{%
13418 \bidi@step@absolute@footnote@count
13419 \if@RTL@footnote
13420 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13421 \else
13422 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13423 \fi
13424 \global\setbox
13425 \if@RTL@footnote
13426 \footinsv@r
13427 \else
13428 \footinsv@l
13429 \fi
13430 \vbox{%
13431 \unvbox
13432 \if@RTL@footnote
13433 \footinsv@r
13434 \else
13435 \footinsv@l
13436 \fi
13437 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13438 \def\baselinestretch{\m@{footnote@spacing}%
13439 \reset@font\foottextfont
13440 \@preamfntext
13441 \protected@edef\@currentlabel{%
13442 \csname p@footnote\endcsname\@thefnmark}%
13443 \color@begingroup
13444 \@sixcolfootfmt{#1}%
13445 \color@endgroup}%
13446 \m@{mmf@prepare}
13447 \if@RTL@footnote
13448 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13449 \else
13450 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13451 \fi
13452 }
13453 \bidi@ensure@newcommand{\@sixcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13454 \def\baselinestretch{\m@{footnote@spacing}%
13455 \reset@font\LTRfoottextfont
13456 \@preamfntext
13457 \protected@edef\@currentlabel{%

```



```

13458 \csname p@footnote\endcsname\@thefnmark}%
13459 \color@begingroup
13460 \@sixcolLTRfootfmt{#1}%
13461 \color@endgroup}%
13462 \m@mmf@prepare}
13463 \newcommand{\@SixColLTRfootnotetext}[1]{%
13464 \bidi@step@absolute@footnote@count
13465 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13466 \global\setbox\footinsv@l\vbox{%
13467 \unvbox\footinsv@l
13468 \@RTLfalse
13469 \def\baselinestretch{\m@mm@footnote@spacing}%
13470 \reset@font\LTRfoottextfont
13471 \@preamfntext
13472 \protected@edef\@currentlabel{%
13473 \csname p@footnote\endcsname\@thefnmark}%
13474 \color@begingroup
13475 \@sixcolLTRfootfmt{#1}%
13476 \color@endgroup}%
13477 \m@mmf@prepare
13478 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13479 }
13480 \bidi@ensure@newcommand{\@sixcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13481 \def\baselinestretch{\m@mm@footnote@spacing}%
13482 \reset@font\RTLfoottextfont
13483 \@preamfntext
13484 \protected@edef\@currentlabel{%
13485 \csname p@footnote\endcsname\@thefnmark}%
13486 \color@begingroup
13487 \@sixcolRTLfootfmt{#1}%
13488 \color@endgroup}%
13489 \m@mmf@prepare}
13490 \newcommand{\@SixColRTLfootnotetext}[1]{%
13491 \bidi@step@absolute@footnote@count
13492 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13493 \global\setbox\footinsv@r\vbox{%
13494 \unvbox\footinsv@r
13495 \@RTLtrue
13496 \def\baselinestretch{\m@mm@footnote@spacing}%
13497 \reset@font\RTLfoottextfont
13498 \@preamfntext
13499 \protected@edef\@currentlabel{%
13500 \csname p@footnote\endcsname\@thefnmark}%
13501 \color@begingroup
13502 \@sixcolRTLfootfmt{#1}%
13503 \color@endgroup}%
13504 \m@mmf@prepare
13505 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13506 }
13507 \bidi@ensure@newcommand{\@preamsixfmt}{%
13508 \hsize .16\hsize
13509 \parindent=\z@
13510 \tolerance=5000\relax
13511 \leavevmode}

```



```

13512 \bidi@ensure@newcommand{\@sixcolfootfmt}[1]{%
13513   \@preamsixfmt
13514   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13515 \bidi@ensure@newcommand{\@sixcollTRfootfmt}[1]{%
13516   \@preamsixfmt
13517   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13518 \bidi@ensure@newcommand{\@sixcolRTLfootfmt}[1]{%
13519   \@preamsixfmt
13520   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13521 \bidi@ensure@newcommand{\@mpsixcolfootnotetext}[1]{%
13522   \global\setbox
13523     \if@RTL@footnote
13524     \@mpfootinsv@r
13525   \else
13526     \@mpfootinsv@l
13527   \fi
13528   \vbox{%
13529     \unvbox
13530     \if@RTL@footnote
13531     \@mpfootinsv@r
13532   \else
13533     \@mpfootinsv@l
13534   \fi
13535     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13536     \def\baselinestretch{\m@m@footnote@spacing}%
13537     \reset@font\foottextfont
13538     \hsize\columnwidth \@parboxrestore
13539     \protected@edef\@currentlabel{%
13540       \csname p@mpfootnote\endcsname\@thefnmark}%
13541     \color@begingroup
13542       \@sixcolfootfmt{#1}%
13543     \color@endgroup}%
13544     \m@m@mmf@prepare}
13545 \newcommand{\@mpSixColfootnotetext}[1]{%
13546   \if@RTL@footnote
13547     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13548   \else
13549     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13550   \fi
13551   \global\setbox
13552     \if@RTL@footnote
13553     \@mpfootinsv@r
13554   \else
13555     \@mpfootinsv@l
13556   \fi
13557   \vbox{%
13558     \unvbox
13559     \if@RTL@footnote
13560     \@mpfootinsv@r
13561   \else
13562     \@mpfootinsv@l
13563   \fi
13564     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13565     \def\baselinestretch{\m@m@footnote@spacing}%

```



```

13566 \reset@font\foottextfont
13567 \hsize\columnwidth \@parboxrestore
13568 \protected@edef\@currentlabel{%
13569 \csname p@mpfootnote\endcsname\@thefnmark}%
13570 \color@begingroup
13571 \@sixcolfootfmt{#1}%
13572 \color@endgroup}%
13573 \m@mmf@prepare}
13574 \bidi@ensure@newcommand{\@mpsixcolLTRfootnotetext}[1]{%
13575 \global\setbox\@mpfootinsv@l\vbox{%
13576 \unvbox\@mpfootinsv@l
13577 \@RTLfalse
13578 \def\baselinestretch{\m@m@footnote@spacing}%
13579 \reset@font\LTRfoottextfont
13580 \hsize\columnwidth \@parboxrestore
13581 \protected@edef\@currentlabel{%
13582 \csname p@mpfootnote\endcsname\@thefnmark}%
13583 \color@begingroup
13584 \@sixcolLTRfootfmt{#1}%
13585 \color@endgroup}%
13586 \m@mmf@prepare}
13587 \newcommand{\@mpSixColLTRfootnotetext}[1]{%
13588 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13589 \global\setbox\@mpfootinsv@l\vbox{%
13590 \unvbox\@mpfootinsv@l
13591 \@RTLfalse
13592 \def\baselinestretch{\m@m@footnote@spacing}%
13593 \reset@font\LTRfoottextfont
13594 \hsize\columnwidth \@parboxrestore
13595 \protected@edef\@currentlabel{%
13596 \csname p@mpfootnote\endcsname\@thefnmark}%
13597 \color@begingroup
13598 \@sixcolLTRfootfmt{#1}%
13599 \color@endgroup}%
13600 \m@mmf@prepare}
13601 \bidi@ensure@newcommand{\@mpsixcolRTLfootnotetext}[1]{%
13602 \global\setbox\@mpfootinsv@r\vbox{%
13603 \unvbox\@mpfootinsv@r
13604 \@RTLtrue
13605 \def\baselinestretch{\m@m@footnote@spacing}%
13606 \reset@font\RTLfoottextfont
13607 \hsize\columnwidth \@parboxrestore
13608 \protected@edef\@currentlabel{%
13609 \csname p@mpfootnote\endcsname\@thefnmark}%
13610 \color@begingroup
13611 \@sixcolRTLfootfmt{#1}%
13612 \color@endgroup}%
13613 \m@mmf@prepare}
13614 \newcommand{\@mpSixColRTLfootnotetext}[1]{%
13615 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13616 \global\setbox\@mpfootinsv@r\vbox{%
13617 \unvbox\@mpfootinsv@r
13618 \@RTLtrue
13619 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

13620 \reset@font\RTLfoottextfont
13621 \hsize\columnwidth \@parboxrestore
13622 \protected@edef\@currentlabel{%
13623 \csname p@mpfootnote\endcsname\@thefnmark}%
13624 \color@begingroup
13625 \sixcolRTLfootfmt{#1}%
13626 \color@endgroup}%
13627 \m@mff@prepare}
13628 \bidi@ensure@newcommand{\m@make@sixcol@footgroup}[1]{%
13629 \namedef{\sixcol@footgroup#1}{%
13630 \def\baselinestretch{\m@m@footnote@spacing}%
13631 \hsize\bidi@columnwidth
13632 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13633 \m@r@rigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}%
13634 \newcommand{\bidi@make@sixcol@LTRfootgroup}[1]{%
13635 \namedef{\sixcol@LTRfootgroup#1}{%
13636 \def\baselinestretch{\m@m@footnote@spacing}%
13637 \hsize\bidi@columnwidth
13638 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13639 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}%
13640 \bidi@ensure@newcommand{\m@make@mpsixcol@footgroup}[1]{%
13641 \namedef{\mpsixcol@footgroup#1}{%
13642 \def\baselinestretch{\m@m@footnote@spacing}%
13643 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13644 \m@r@rigidbalance{\@nameuse{mpfootins#1}}{6}{\splittopskip}}}%
13645 \newcommand{\bidi@make@mpsixcol@LTRfootgroup}[1]{%
13646 \namedef{\mpsixcol@LTRfootgroup#1}{%
13647 \def\baselinestretch{\m@m@footnote@spacing}%
13648 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13649 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{6}{\splittopskip}}}%
13650 \bidi@ensure@newcommand{\sevendcolumnfootnotes}{%
13651 \namedef{foottextfontv@r}{\foottextfont}% \[RS]
13652 \namedef{foottextfontv@l}{\LTRfoottextfont}%
13653 \@bidi@before@Hy@hyperfootnotes
13654 \let\@footnotetext\@sevendcolfootnotetext
13655 \let\@LTRfootnotetext\@sevendcolLTRfootnotetext
13656 \let\@RTLfootnotetext\@sevendcolRTLfootnotetext
13657 \dimen\footinsv@r=7\footinsdim
13658 \count\footinsv@r=142\relax
13659 \m@make@sevendcol@footgroup{v@r}%
13660 \let\@footgroupv@r\@sevendcol@footgroupv@r
13661 \dimen\footinsv@l=7\footinsdim
13662 \count\footinsv@l=142\relax
13663 \bidi@make@sevendcol@LTRfootgroup{v@l}%
13664 \let\@LTRfootgroupv@l\@sevendcol@LTRfootgroupv@l
13665 \let\@mpfootnotetext\@mpsevendcolfootnotetext
13666 \let\@mpLTRfootnotetext\@mpsevendcolLTRfootnotetext
13667 \let\@mpRTLfootnotetext\@mpsevendcolRTLfootnotetext
13668 \@bidi@after@Hy@hyperfootnotes
13669 \m@make@mpsevendcol@footgroup{v@r}%
13670 \let\mp@footgroupv@r\@mpsevendcol@footgroupv@r
13671 \bidi@make@mpsevendcol@LTRfootgroup{v@l}%
13672 \let\mp@LTRfootgroupv@l\@mpsevendcol@LTRfootgroupv@l
13673 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth

```



```

13674 }
13675 \newcommand{\SevenColumnFootnotes}{%
13676   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13677   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13678   \@bidi@before@Hy@hyperfootnotes
13679   \let\@footnotetext\@SevenColfootnotetext
13680   \let\@LTRfootnotetext\@SevenColLTRfootnotetext
13681   \let\@RTLfootnotetext\@SevenColRTLfootnotetext
13682   \dimen\footinsv@r=7\footinsdim
13683   \count\footinsv@r=142\relax
13684   \m@make@sevendcol@footgroup{v@r}%
13685   \let\@footgroupv@r\@sevendcol@footgroupv@r
13686   \dimen\footinsv@l=7\footinsdim
13687   \count\footinsv@l=142\relax
13688   \bidi@make@sevendcol@LTRfootgroup{v@l}%
13689   \let\@LTRfootgroupv@l\@sevendcol@LTRfootgroupv@l
13690   \let\@mpfootnotetext\@mpSevenColfootnotetext
13691   \let\@mpLTRfootnotetext\@mpSevenColLTRfootnotetext
13692   \let\@mpRTLfootnotetext\@mpSevenColRTLfootnotetext
13693   \@bidi@after@Hy@hyperfootnotes
13694   \m@make@mpsevendcol@footgroup{v@r}%
13695   \let\mp@footgroupv@r\@mpsevendcol@footgroupv@r
13696   \bidi@make@mpsevendcol@LTRfootgroup{v@l}%
13697   \let\mp@LTRfootgroupv@l\@mpsevendcol@LTRfootgroupv@l
13698   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13699 }
13700 \bidi@ensure@newcommand{\@sevendcolfootnotetext}[1]{\insert
13701   \if@RTL@footnote
13702     \footinsv@r
13703   \else
13704     \footinsv@l
13705   \fi
13706 { \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13707   \def\baselinestretch{\m@footnote@spacing}%
13708   \reset@font\foottextfont
13709   \@preamfntext
13710   \protected@edef\@currentlabel{%
13711     \csname p@footnote\endcsname\@thefnmark}%
13712   \color@begingroup
13713     \@sevendcolfootfmt{#1}%
13714   \color@endgroup}%
13715   \m@mfm@prepare}
13716 \newcommand{\@SevenColfootnotetext}[1]{%
13717   \bidi@step@absolutefootnote@count
13718   \if@RTL@footnote
13719     \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13720   \else
13721     \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13722   \fi
13723   \global\setbox
13724   \if@RTL@footnote
13725     \footinsv@r
13726   \else
13727     \footinsv@l

```




```

13728 \fi
13729 \vbox{%
13730 \unvbox
13731 \if@RTL@footnote
13732 \footinsv@r
13733 \else
13734 \footinsv@l
13735 \fi
13736 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13737 \def\baselinestretch{\m@m@footnote@spacing}%
13738 \reset@font\foottextfont
13739 \@preamfntext
13740 \protected@edef\@currentlabel{%
13741 \csname p@footnote\endcsname\@thefnmark}%
13742 \color@begingroup
13743 \@sevenscolfootfmt{#1}%
13744 \color@endgroup}%
13745 \m@mmf@prepare
13746 \if@RTL@footnote
13747 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13748 \else
13749 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13750 \fi
13751 }
13752 \bidi@ensure@newcommand{\@sevenscolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13753 \def\baselinestretch{\m@m@footnote@spacing}%
13754 \reset@font\LTRfoottextfont
13755 \@preamfntext
13756 \protected@edef\@currentlabel{%
13757 \csname p@footnote\endcsname\@thefnmark}%
13758 \color@begingroup
13759 \@sevenscolLTRfootfmt{#1}%
13760 \color@endgroup}%
13761 \m@mmf@prepare}
13762 \newcommand{\@SevenColLTRfootnotetext}[1]{%
13763 \bidi@step@absolute@footnote@count
13764 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13765 \global\setbox\footinsv@l\vbox{%
13766 \unvbox\footinsv@l
13767 \@RTLfalse
13768 \def\baselinestretch{\m@m@footnote@spacing}%
13769 \reset@font\LTRfoottextfont
13770 \@preamfntext
13771 \protected@edef\@currentlabel{%
13772 \csname p@footnote\endcsname\@thefnmark}%
13773 \color@begingroup
13774 \@sevenscolLTRfootfmt{#1}%
13775 \color@endgroup}%
13776 \m@mmf@prepare
13777 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13778 }
13779 \bidi@ensure@newcommand{\@sevenscolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13780 \def\baselinestretch{\m@m@footnote@spacing}%
13781 \reset@font\RTLfoottextfont

```



```

13782 \@preamfntext
13783 \protected@edef\@currentlabel{%
13784   \csname p@footnote\endcsname\@thefnmark}%
13785 \color@begingroup
13786   \@sevendcolRTLfootfmt{#1}%
13787 \color@endgroup}%
13788 \m@mmf@prepare}
13789 \newcommand{\@SevenColRTLfootnotetext}[1]{%
13790   \bidi@step@absolute@footnote@count
13791   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13792   \global\setbox\footinsv@r\vbox{%
13793     \unvbox\footinsv@r
13794     \@RTLtrue
13795     \def\baselinestretch{\m@m@footnote@spacing}%
13796     \reset@font\RTLfoottextfont
13797     \@preamfntext
13798     \protected@edef\@currentlabel{%
13799       \csname p@footnote\endcsname\@thefnmark}%
13800     \color@begingroup
13801       \@sevendcolRTLfootfmt{#1}%
13802     \color@endgroup}%
13803     \m@mmf@prepare
13804     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13805   }
13806 \bidi@ensure@newcommand{\@preamsevenfmt}{%
13807   \hspace{.142\hsize}
13808   \parindent=\z@
13809   \tolerance=5000\relax
13810   \leavevmode}
13811 \bidi@ensure@newcommand{\@sevendcolfootfmt}[1]{%
13812   \@preamsevenfmt
13813   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13814 \bidi@ensure@newcommand{\@sevendcolLTRfootfmt}[1]{%
13815   \@preamsevenfmt
13816   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13817 \bidi@ensure@newcommand{\@sevendcolRTLfootfmt}[1]{%
13818   \@preamsevenfmt
13819   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13820 \bidi@ensure@newcommand{\@mpsevencolfootnotetext}[1]{%
13821   \global\setbox
13822     \if@RTL@footnote
13823     \@mpfootinsv@r
13824   \else
13825     \@mpfootinsv@l
13826   \fi
13827   \vbox{%
13828     \unvbox
13829     \if@RTL@footnote
13830     \@mpfootinsv@r
13831   \else
13832     \@mpfootinsv@l
13833   \fi
13834   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13835   \def\baselinestretch{\m@m@footnote@spacing}%

```



```

13836 \reset@font\foottextfont
13837 \hsize\columnwidth \@parboxrestore
13838 \protected@edef\@currentlabel{%
13839 \csname p@mpfootnote\endcsname\@thefnmark}%
13840 \color@begingroup
13841 \@sevenscolfootfmt{#1}%
13842 \color@endgroup}%
13843 \m@mmf@prepare}
13844 \newcommand{\@mpSevenColfootnotetext}[1]{%
13845 \if@RTL@footnote
13846 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13847 \else
13848 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13849 \fi
13850 \global\setbox
13851 \if@RTL@footnote
13852 \@mpfootinsv@r
13853 \else
13854 \@mpfootinsv@l
13855 \fi
13856 \vbox{%
13857 \unvbox
13858 \if@RTL@footnote
13859 \@mpfootinsv@r
13860 \else
13861 \@mpfootinsv@l
13862 \fi
13863 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13864 \def\baselinestretch{\m@m@footnote@spacing}%
13865 \reset@font\foottextfont
13866 \hsize\columnwidth \@parboxrestore
13867 \protected@edef\@currentlabel{%
13868 \csname p@mpfootnote\endcsname\@thefnmark}%
13869 \color@begingroup
13870 \@sevenscolfootfmt{#1}%
13871 \color@endgroup}%
13872 \m@mmf@prepare}
13873 \bidi@ensure@newcommand{\@mpsevencolLTRfootnotetext}[1]{%
13874 \global\setbox\@mpfootinsv@l\vbox{%
13875 \unvbox\@mpfootinsv@l
13876 \@RTLfalse
13877 \def\baselinestretch{\m@m@footnote@spacing}%
13878 \reset@font\LTRfoottextfont
13879 \hsize\columnwidth \@parboxrestore
13880 \protected@edef\@currentlabel{%
13881 \csname p@mpfootnote\endcsname\@thefnmark}%
13882 \color@begingroup
13883 \@sevenscolLTRfootfmt{#1}%
13884 \color@endgroup}%
13885 \m@mmf@prepare}
13886 \newcommand{\@mpSevenColLTRfootnotetext}[1]{%
13887 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13888 \global\setbox\@mpfootinsv@l\vbox{%
13889 \unvbox\@mpfootinsv@l

```



```

13890 \RTLfalse
13891 \def\baselinestretch{\m@m@footnote@spacing}%
13892 \reset@font\LTRfoottextfont
13893 \hsize\columnwidth \@parboxrestore
13894 \protected@edef\@currentlabel{%
13895 \csname p@mpfootnote\endcsname\@thefnmark}%
13896 \color@begingroup
13897 \@sevenscolLTRfootfmt{#1}%
13898 \color@endgroup}%
13899 \m@m@mmf@prepare}
13900 \bidi@ensure@newcommand{\@mpsevenscolRTLfootnotetext}[1]{%
13901 \global\setbox\@mpfootinsv@r\vbox{%
13902 \unvbox\@mpfootinsv@r
13903 \RTLtrue
13904 \def\baselinestretch{\m@m@footnote@spacing}%
13905 \reset@font\RTLfoottextfont
13906 \hsize\columnwidth \@parboxrestore
13907 \protected@edef\@currentlabel{%
13908 \csname p@mpfootnote\endcsname\@thefnmark}%
13909 \color@begingroup
13910 \@sevenscolRTLfootfmt{#1}%
13911 \color@endgroup}%
13912 \m@m@mmf@prepare}
13913 \newcommand{\@mpSevenColRTLfootnotetext}[1]{%
13914 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13915 \global\setbox\@mpfootinsv@r\vbox{%
13916 \unvbox\@mpfootinsv@r
13917 \RTLtrue
13918 \def\baselinestretch{\m@m@footnote@spacing}%
13919 \reset@font\RTLfoottextfont
13920 \hsize\columnwidth \@parboxrestore
13921 \protected@edef\@currentlabel{%
13922 \csname p@mpfootnote\endcsname\@thefnmark}%
13923 \color@begingroup
13924 \@sevenscolRTLfootfmt{#1}%
13925 \color@endgroup}%
13926 \m@m@mmf@prepare}
13927 \bidi@ensure@newcommand{\m@make@sevenscol@footgroup}[1]{%
13928 \@namedef{@sevenscol@footgroup#1}{%
13929 \def\baselinestretch{\m@m@footnote@spacing}%
13930 \hsize\bidi@columnwidth
13931 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13932 \m@mrigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}}
13933 \newcommand{\bidi@make@sevenscol@LTRfootgroup}[1]{%
13934 \@namedef{@sevenscol@LTRfootgroup#1}{%
13935 \def\baselinestretch{\m@m@footnote@spacing}%
13936 \hsize\bidi@columnwidth
13937 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13938 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}}
13939 \bidi@ensure@newcommand{\m@make@mpsevenscol@footgroup}[1]{%
13940 \@namedef{@mpsevenscol@footgroup#1}{%
13941 \def\baselinestretch{\m@m@footnote@spacing}%
13942 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13943 \m@mrigidbalance{\@nameuse{mpfootins#1}}{7}{\splittopskip}}}}

```



```

13944 \newcommand{\bidi@make@mpsevenscol@LTRfootgroup}[1]{%
13945 \@namedef{@mpsevenscol@LTRfootgroup#1}{%
13946 \def\baselinestretch{\m@m@footnote@spacing}%
13947 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13948 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{7}{\splittopskip}}}%
13949 \bidi@ensure@newcommand{\eightcolumnfootnotes}{%
13950 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13951 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13952 \@bidi@before@Hy@hyperfootnotes
13953 \let\@footnotetext\@eightcolfootnotetext
13954 \let\@LTRfootnotetext\@eightcolLTRfootnotetext
13955 \let\@RTLfootnotetext\@eightcolRTLfootnotetext
13956 \dimen\footinsv@r=8\footinsdim
13957 \count\footinsv@r=125\relax
13958 \m@make@eightcol@footgroup{v@r}%
13959 \let\@footgroupv@r\@eightcol@footgroupv@r
13960 \dimen\footinsv@l=8\footinsdim
13961 \count\footinsv@l=125\relax
13962 \bidi@make@eightcol@LTRfootgroup{v@l}%
13963 \let\@LTRfootgroupv@l\@eightcol@LTRfootgroupv@l
13964 \let\@mpfootnotetext\@mpeightcolfootnotetext
13965 \let\@mpLTRfootnotetext\@mpeightcolLTRfootnotetext
13966 \let\@mpRTLfootnotetext\@mpeightcolRTLfootnotetext
13967 \@bidi@after@Hy@hyperfootnotes
13968 \m@make@mpeightcol@footgroup{v@r}%
13969 \let\mp@footgroupv@r\@mpeightcol@footgroupv@r
13970 \bidi@make@mpeightcol@LTRfootgroup{v@l}%
13971 \let\mp@LTRfootgroupv@l\@mpeightcol@LTRfootgroupv@l
13972 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13973 }
13974 \newcommand{\EightColumnFootnotes}{%
13975 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13976 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13977 \@bidi@before@Hy@hyperfootnotes
13978 \let\@footnotetext\@EightColfootnotetext
13979 \let\@LTRfootnotetext\@EightColLTRfootnotetext
13980 \let\@RTLfootnotetext\@EightColRTLfootnotetext
13981 \dimen\footinsv@r=8\footinsdim
13982 \count\footinsv@r=125\relax
13983 \m@make@eightcol@footgroup{v@r}%
13984 \let\@footgroupv@r\@eightcol@footgroupv@r
13985 \dimen\footinsv@l=8\footinsdim
13986 \count\footinsv@l=125\relax
13987 \bidi@make@eightcol@LTRfootgroup{v@l}%
13988 \let\@LTRfootgroupv@l\@eightcol@LTRfootgroupv@l
13989 \let\@mpfootnotetext\@mpEightColfootnotetext
13990 \let\@mpLTRfootnotetext\@mpEightColLTRfootnotetext
13991 \let\@mpRTLfootnotetext\@mpEightColRTLfootnotetext
13992 \@bidi@after@Hy@hyperfootnotes
13993 \m@make@mpeightcol@footgroup{v@r}%
13994 \let\mp@footgroupv@r\@mpeightcol@footgroupv@r
13995 \bidi@make@mpeightcol@LTRfootgroup{v@l}%
13996 \let\mp@LTRfootgroupv@l\@mpeightcol@LTRfootgroupv@l
13997 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth

```



```

13998 }
13999 \bidi@ensure@newcommand{\@eightcolfootnotetext}[1]{\insert
14000   \if@RTL@footnote
14001     \footinsv@r
14002   \else
14003     \footinsv@l
14004   \fi
14005 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14006   \def\baselinestretch{\m@m@footnote@spacing}%
14007   \reset@font\foottextfont
14008   \@preamfntext
14009   \protected@edef\@currentlabel{%
14010     \csname p@footnote\endcsname\@thefnmark}%
14011   \color@begingroup
14012     \@eightcolfootfmt{#1}%
14013   \color@endgroup}%
14014   \m@mmf@prepare}
14015 \newcommand{\@EightColfootnotetext}[1]{%
14016   \bidi@step@absolutefootnote@count
14017   \if@RTL@footnote
14018     \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14019   \else
14020     \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14021   \fi
14022   \global\setbox
14023   \if@RTL@footnote
14024     \footinsv@r
14025   \else
14026     \footinsv@l
14027   \fi
14028   \vbox{%
14029     \unvbox
14030     \if@RTL@footnote
14031       \footinsv@r
14032     \else
14033       \footinsv@l
14034     \fi
14035     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14036     \def\baselinestretch{\m@m@footnote@spacing}%
14037     \reset@font\foottextfont
14038     \@preamfntext
14039     \protected@edef\@currentlabel{%
14040       \csname p@footnote\endcsname\@thefnmark}%
14041     \color@begingroup
14042       \@eightcolfootfmt{#1}%
14043     \color@endgroup}%
14044     \m@mmf@prepare
14045   \if@RTL@footnote
14046     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14047   \else
14048     \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14049   \fi
14050 }
14051 \bidi@ensure@newcommand{\@eightcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%

```



```

14052 \def\baselinestretch{\m@m@footnote@spacing}%
14053 \reset@font\LTRfoottextfont
14054 \@preamfntext
14055 \protected@edef\@currentlabel{%
14056   \csname p@footnote\endcsname\@thefnmark}%
14057 \color@begingroup
14058   \@eightcolLTRfootfmt{#1}%
14059 \color@endgroup}%
14060 \m@m@mmf@prepare}
14061 \newcommand{\@EightColLTRfootnotetext}[1]{%
14062   \bidi@step@absolutefootnote@count
14063   \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14064   \global\setbox\footinsv@l\vbox{%
14065     \unvbox\footinsv@l
14066     \RTLfalse
14067   \def\baselinestretch{\m@m@footnote@spacing}%
14068   \reset@font\LTRfoottextfont
14069   \@preamfntext
14070   \protected@edef\@currentlabel{%
14071     \csname p@footnote\endcsname\@thefnmark}%
14072   \color@begingroup
14073     \@eightcolLTRfootfmt{#1}%
14074   \color@endgroup}%
14075   \m@m@mmf@prepare
14076   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14077 }
14078 \bidi@ensure@newcommand{\@eightcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14079   \def\baselinestretch{\m@m@footnote@spacing}%
14080   \reset@font\RTLfoottextfont
14081   \@preamfntext
14082   \protected@edef\@currentlabel{%
14083     \csname p@footnote\endcsname\@thefnmark}%
14084   \color@begingroup
14085     \@eightcolRTLfootfmt{#1}%
14086   \color@endgroup}%
14087   \m@m@mmf@prepare}
14088 \newcommand{\@EightColRTLfootnotetext}[1]{%
14089   \bidi@step@absolutefootnote@count
14090   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14091   \global\setbox\footinsv@r\vbox{%
14092     \unvbox\footinsv@r
14093     \RTLtrue%
14094   \def\baselinestretch{\m@m@footnote@spacing}%
14095   \reset@font\RTLfoottextfont
14096   \@preamfntext
14097   \protected@edef\@currentlabel{%
14098     \csname p@footnote\endcsname\@thefnmark}%
14099   \color@begingroup
14100     \@eightcolRTLfootfmt{#1}%
14101   \color@endgroup}%
14102   \m@m@mmf@prepare
14103   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14104 }
14105 \bidi@ensure@newcommand{\@preameightfmt}{%

```



```

14106 \hsize .125\hsize
14107 \parindent=\z@
14108 \tolerance=5000\relax
14109 \leavevmode}
14110 \bidi@ensure@newcommand{\@eightcolfootfmt}[1]{%
14111 \@preameightfmt
14112 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
14113 \bidi@ensure@newcommand{\@eightcolLTRfootfmt}[1]{%
14114 \@preameightfmt
14115 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14116 \bidi@ensure@newcommand{\@eightcolRTLfootfmt}[1]{%
14117 \@preameightfmt
14118 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14119 \bidi@ensure@newcommand{\@mpeightcolfootnotetext}[1]{%
14120 \global\setbox
14121 \if@RTL@footnote
14122 \@mpfootinsv@r
14123 \else
14124 \@mpfootinsv@l
14125 \fi
14126 \vbox{%
14127 \unvbox
14128 \if@RTL@footnote
14129 \@mpfootinsv@r
14130 \else
14131 \@mpfootinsv@l
14132 \fi
14133 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14134 \def\baselinestretch{\m@m@footnote@spacing}%
14135 \reset@font\foottextfont
14136 \hsize\columnwidth \@parboxrestore
14137 \protected@edef\@currentlabel{%
14138 \csname p@mpfootnote\endcsname\@thefnmark}%
14139 \color@begingroup
14140 \@eightcolfootfmt{#1}%
14141 \color@endgroup}%
14142 \m@m@mmf@prepare}
14143 \newcommand{\@mpEightColfootnotetext}[1]{%
14144 \if@RTL@footnote
14145 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14146 \else
14147 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14148 \fi
14149 \global\setbox
14150 \if@RTL@footnote
14151 \@mpfootinsv@r
14152 \else
14153 \@mpfootinsv@l
14154 \fi
14155 \vbox{%
14156 \unvbox
14157 \if@RTL@footnote
14158 \@mpfootinsv@r
14159 \else

```




```

14160 \mpfootinsv@l
14161 \fi
14162 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14163 \def\baselinestretch{\m@m@footnote@spacing}%
14164 \reset@font\foottextfont
14165 \hsize\columnwidth \@parboxrestore
14166 \protected@edef\@currentlabel{%
14167 \csname p@mpfootnote\endcsname\@thefnmark}%
14168 \color@begingroup
14169 \@eightcolfootfmt{#1}%
14170 \color@endgroup}%
14171 \m@m@mmf@prepare}
14172 \bidi@ensure@newcommand{\@mpeightcolLTRfootnotetext}[1]{%
14173 \global\setbox\@mpfootinsv@l\vbox{%
14174 \unvbox\@mpfootinsv@l
14175 \@RTLfalse
14176 \def\baselinestretch{\m@m@footnote@spacing}%
14177 \reset@font\LTRfoottextfont
14178 \hsize\columnwidth \@parboxrestore
14179 \protected@edef\@currentlabel{%
14180 \csname p@mpfootnote\endcsname\@thefnmark}%
14181 \color@begingroup
14182 \@eightcolLTRfootfmt{#1}%
14183 \color@endgroup}%
14184 \m@m@mmf@prepare}
14185 \newcommand{\@mpEightColLTRfootnotetext}[1]{%
14186 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14187 \global\setbox\@mpfootinsv@l\vbox{%
14188 \unvbox\@mpfootinsv@l
14189 \@RTLfalse
14190 \def\baselinestretch{\m@m@footnote@spacing}%
14191 \reset@font\LTRfoottextfont
14192 \hsize\columnwidth \@parboxrestore
14193 \protected@edef\@currentlabel{%
14194 \csname p@mpfootnote\endcsname\@thefnmark}%
14195 \color@begingroup
14196 \@eightcolLTRfootfmt{#1}%
14197 \color@endgroup}%
14198 \m@m@mmf@prepare}
14199 \bidi@ensure@newcommand{\@mpeightcolRTLfootnotetext}[1]{%
14200 \global\setbox\@mpfootinsv@r\vbox{%
14201 \unvbox\@mpfootinsv@r
14202 \@RTLtrue
14203 \def\baselinestretch{\m@m@footnote@spacing}%
14204 \reset@font\RTLfoottextfont
14205 \hsize\columnwidth \@parboxrestore
14206 \protected@edef\@currentlabel{%
14207 \csname p@mpfootnote\endcsname\@thefnmark}%
14208 \color@begingroup
14209 \@eightcolRTLfootfmt{#1}%
14210 \color@endgroup}%
14211 \m@m@mmf@prepare}
14212 \newcommand{\@mpEightColRTLfootnotetext}[1]{%
14213 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l

```



```

14214 \global\setbox\@mpfootinsv@r\vbox{%
14215   \unvbox\@mpfootinsv@r
14216   \@RTLtrue
14217   \def\baselinestretch{\m@m@footnote@spacing}%
14218   \reset@font\RTLfoottextfont
14219   \hsize\columnwidth \@parboxrestore
14220   \protected@edef\@currentlabel{%
14221     \csname p@mpfootnote\endcsname\@thefnmark}%
14222   \color@begingroup
14223     \@eightcolRTLfootfmt{#1}%
14224   \color@endgroup}%
14225   \m@m@mmf@prepare}
14226 \bidi@ensure@newcommand{\m@make@eightcol@footgroup}[1]{%
14227   \@namedef{@eightcol@footgroup#1}{%
14228     \def\baselinestretch{\m@m@footnote@spacing}%
14229     \hsize\bidi@columnwidth
14230     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14231     \m@m@rigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}}
14232 \newcommand{\bidi@make@eightcol@LTRfootgroup}[1]{%
14233   \@namedef{@eightcol@LTRfootgroup#1}{%
14234     \def\baselinestretch{\m@m@footnote@spacing}%
14235     \hsize\bidi@columnwidth
14236     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14237     \bidi@LTRrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}}
14238 \bidi@ensure@newcommand{\m@make@mp@eightcol@footgroup}[1]{%
14239   \@namedef{@mp@eightcol@footgroup#1}{%
14240     \def\baselinestretch{\m@m@footnote@spacing}%
14241     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14242     \m@m@rigidbalance{\@nameuse{mpfootins#1}}{8}{\splittopskip}}}}
14243 \newcommand{\bidi@make@mp@eightcol@LTRfootgroup}[1]{%
14244   \@namedef{@mp@eightcol@LTRfootgroup#1}{%
14245     \def\baselinestretch{\m@m@footnote@spacing}%
14246     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14247     \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{8}{\splittopskip}}}}
14248 \bidi@ensure@newcommand{\ninecolumnfootnotes}{%
14249   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14250   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14251   \@bidi@before@Hy@hyperfootnotes
14252   \let\@footnotetext\@ninecolfootnotetext
14253   \let\@LTRfootnotetext\@ninecolLTRfootnotetext
14254   \let\@RTLfootnotetext\@ninecolRTLfootnotetext
14255   \dimen\footinsv@r=9\footinsdim
14256   \count\footinsv@r=111\relax
14257   \m@make@ninecol@footgroup{v@r}%
14258   \let\@footgroupv@r\@ninecol@footgroupv@r
14259   \dimen\footinsv@l=9\footinsdim
14260   \count\footinsv@l=111\relax
14261   \bidi@make@ninecol@LTRfootgroup{v@l}%
14262   \let\@LTRfootgroupv@l\@ninecol@LTRfootgroupv@l
14263   \let\@mpfootnotetext\@mpninecolfootnotetext
14264   \let\@mpLTRfootnotetext\@mpninecolLTRfootnotetext
14265   \let\@mpRTLfootnotetext\@mpninecolRTLfootnotetext
14266   \@bidi@after@Hy@hyperfootnotes
14267   \m@make@mpninecol@footgroup{v@r}%

```



```

14268 \let\mp@footgroupv@r\@mpninelcol@footgroupv@r
14269 \bidi@make@mpninelcol@LTRfootgroup{v@l}%
14270 \let\mp@LTRfootgroupv@l\@mpninelcol@LTRfootgroupv@l
14271 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14272 }
14273 \newcommand{\NineColumnFootnotes}{%
14274 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14275 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14276 \@bidi@before@Hy@hyperfootnotes
14277 \let\@footnotetext\@NineColfootnotetext
14278 \let\@LTRfootnotetext\@NineColLTRfootnotetext
14279 \let\@RTLfootnotetext\@NineColRTLfootnotetext
14280 \dimen\footinsv@r=9\footinsdim
14281 \count\footinsv@r=111\relax
14282 \m@make@mpninelcol@footgroup{v@r}%
14283 \let\@footgroupv@r\@ninelcol@footgroupv@r
14284 \dimen\footinsv@l=9\footinsdim
14285 \count\footinsv@l=111\relax
14286 \bidi@make@mpninelcol@LTRfootgroup{v@l}%
14287 \let\@LTRfootgroupv@l\@ninelcol@LTRfootgroupv@l
14288 \let\@mpfootnotetext\@mpNineColfootnotetext
14289 \let\@mpLTRfootnotetext\@mpNineColLTRfootnotetext
14290 \let\@mpRTLfootnotetext\@mpNineColRTLfootnotetext
14291 \@bidi@after@Hy@hyperfootnotes
14292 \m@make@mpninelcol@footgroup{v@r}%
14293 \let\mp@footgroupv@r\@mpninelcol@footgroupv@r
14294 \bidi@make@mpninelcol@LTRfootgroup{v@l}%
14295 \let\mp@LTRfootgroupv@l\@mpninelcol@LTRfootgroupv@l
14296 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14297 }
14298 \bidi@ensure@newcommand{\@ninelcolfootnotetext}[1]{\insert
14299 \if@RTL@footnote
14300 \footinsv@r
14301 \else
14302 \footinsv@l
14303 \fi
14304 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14305 \def\baselinestretch{\m@mm@footnote@spacing}%
14306 \reset@font\foottextfont
14307 \@preamfntext
14308 \protected@edef\@currentlabel{%
14309 \csname p@footnote\endcsname\@thefnmark}%
14310 \color@begingroup
14311 \@ninelcolfootfmt{#1}%
14312 \color@endgroup}%
14313 \m@mmf@prepare}
14314 \newcommand{\@NineColfootnotetext}[1]{%
14315 \bidi@step@absolutefootnote@count
14316 \if@RTL@footnote
14317 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14318 \else
14319 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14320 \fi
14321 \global\setbox

```



```

14322 \if@RTL@footnote
14323 \footinsv@r
14324 \else
14325 \footinsv@l
14326 \fi
14327 \vbox{%
14328 \unvbox
14329 \if@RTL@footnote
14330 \footinsv@r
14331 \else
14332 \footinsv@l
14333 \fi
14334 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14335 \def\baselinestretch{\m@m@footnote@spacing}%
14336 \reset@font\foottextfont
14337 \@preamfntext
14338 \protected@edef\@currentlabel{%
14339 \csname p@footnote\endcsname\@thefnmark}%
14340 \color@begingroup
14341 \@ninecolfootfmt{#1}%
14342 \color@endgroup}%
14343 \m@m@mmf@prepare
14344 \if@RTL@footnote
14345 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14346 \else
14347 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14348 \fi
14349 }
14350 \bidi@ensure@newcommand{\@ninecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
14351 \def\baselinestretch{\m@m@footnote@spacing}%
14352 \reset@font\LTRfoottextfont
14353 \@preamfntext
14354 \protected@edef\@currentlabel{%
14355 \csname p@footnote\endcsname\@thefnmark}%
14356 \color@begingroup
14357 \@ninecolLTRfootfmt{#1}%
14358 \color@endgroup}%
14359 \m@m@mmf@prepare}
14360 \newcommand{\@NineColLTRfootnotetext}[1]{%
14361 \bidi@step@absolute@footnote@count
14362 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14363 \global\setbox\footinsv@l\vbox{%
14364 \unvbox\footinsv@l
14365 \@RTLfalse
14366 \def\baselinestretch{\m@m@footnote@spacing}%
14367 \reset@font\LTRfoottextfont
14368 \@preamfntext
14369 \protected@edef\@currentlabel{%
14370 \csname p@footnote\endcsname\@thefnmark}%
14371 \color@begingroup
14372 \@ninecolLTRfootfmt{#1}%
14373 \color@endgroup}%
14374 \m@m@mmf@prepare
14375 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l

```



```

14376 }
14377 \bidi@ensure@newcommand{\@ninecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14378 \def\baselinestretch{\m@m@footnote@spacing}%
14379 \reset@font\RTLfoottextfont
14380 \@preamfntext
14381 \protected@edef\@currentlabel{%
14382 \csname p@footnote\endcsname\@thefnmark}%
14383 \color@begingroup
14384 \@ninecolRTLfootfmt{#1}%
14385 \color@endgroup}%
14386 \m@m@mmf@prepare}
14387 \newcommand{\@NineColRTLfootnotetext}[1]{%
14388 \bidi@step@absolute@footnote@count
14389 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14390 \global\setbox\footinsv@r\vbox{%
14391 \unvbox\footinsv@r
14392 \@RTLtrue
14393 \def\baselinestretch{\m@m@footnote@spacing}%
14394 \reset@font\RTLfoottextfont
14395 \@preamfntext
14396 \protected@edef\@currentlabel{%
14397 \csname p@footnote\endcsname\@thefnmark}%
14398 \color@begingroup
14399 \@ninecolRTLfootfmt{#1}%
14400 \color@endgroup}%
14401 \m@m@mmf@prepare
14402 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14403 }
14404 \bidi@ensure@newcommand{\@preamninefmt}{%
14405 \hsize .1\hsize
14406 \parindent=\z@
14407 \tolerance=5000\relax
14408 \leavevmode}
14409 \bidi@ensure@newcommand{\@ninecolfootfmt}[1]{%
14410 \@preamninefmt
14411 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
14412 \bidi@ensure@newcommand{\@ninecolLTRfootfmt}[1]{%
14413 \@preamninefmt
14414 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14415 \bidi@ensure@newcommand{\@ninecolRTLfootfmt}[1]{%
14416 \@preamninefmt
14417 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14418 \bidi@ensure@newcommand{\@mpninecolfootnotetext}[1]{%
14419 \global\setbox
14420 \if@RTL@footnote
14421 \@mpfootinsv@r
14422 \else
14423 \@mpfootinsv@l
14424 \fi
14425 \vbox{%
14426 \unvbox
14427 \if@RTL@footnote
14428 \@mpfootinsv@r
14429 \else

```



```

14430 \mpfootinsv@l
14431 \fi
14432 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14433 \def\baselinestretch{\m@m@footnote@spacing}%
14434 \reset@font\foottextfont
14435 \hsize\columnwidth \@parboxrestore
14436 \protected@edef\@currentlabel{%
14437 \csname p@mpfootnote\endcsname\@thefnmark}%
14438 \color@begingroup
14439 \@ninecolfootfmt{#1}%
14440 \color@endgroup}%
14441 \m@m@mmf@prepare}
14442 \newcommand{\@mpNineColfootnotetext}[1]{%
14443 \if@RTL@footnote
14444 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14445 \else
14446 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14447 \fi
14448 \global\setbox
14449 \if@RTL@footnote
14450 \@mpfootinsv@r
14451 \else
14452 \@mpfootinsv@l
14453 \fi
14454 \vbox{%
14455 \unvbox
14456 \if@RTL@footnote
14457 \@mpfootinsv@r
14458 \else
14459 \@mpfootinsv@l
14460 \fi
14461 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14462 \def\baselinestretch{\m@m@footnote@spacing}%
14463 \reset@font\foottextfont
14464 \hsize\columnwidth \@parboxrestore
14465 \protected@edef\@currentlabel{%
14466 \csname p@mpfootnote\endcsname\@thefnmark}%
14467 \color@begingroup
14468 \@ninecolfootfmt{#1}%
14469 \color@endgroup}%
14470 \m@m@mmf@prepare}
14471 \bidi@ensure@newcommand{\@mpninecolLTRfootnotetext}[1]{%
14472 \global\setbox\@mpfootinsv@l\vbox{%
14473 \unvbox\@mpfootinsv@l
14474 \@RTLfalse
14475 \def\baselinestretch{\m@m@footnote@spacing}%
14476 \reset@font\LTRfoottextfont
14477 \hsize\columnwidth \@parboxrestore
14478 \protected@edef\@currentlabel{%
14479 \csname p@mpfootnote\endcsname\@thefnmark}%
14480 \color@begingroup
14481 \@ninecolLTRfootfmt{#1}%
14482 \color@endgroup}%
14483 \m@m@mmf@prepare}

```



```

14484 \newcommand{\@mpNineColLTRfootnotetext}[1]{%
14485   \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14486   \global\setbox\@mpfootinsv@l\vbox{%
14487     \unvbox\@mpfootinsv@l
14488     \RTLfalse
14489     \def\baselinestretch{\m@m@footnote@spacing}%
14490     \reset@font\LTRfoottextfont
14491     \hsize\columnwidth \@parboxrestore
14492     \protected@edef\@currentlabel{%
14493       \csname p@mpfootnote\endcsname\@thefnmark}%
14494   \color@begingroup
14495     \@ninecolLTRfootfmt{#1}%
14496   \color@endgroup}%
14497   \m@mmf@prepare}
14498 \bidi@ensure@newcommand{\@mpninecolRTLfootnotetext}[1]{%
14499   \global\setbox\@mpfootinsv@r\vbox{%
14500     \unvbox\@mpfootinsv@r
14501     \RTLtrue
14502     \def\baselinestretch{\m@m@footnote@spacing}%
14503     \reset@font\RTLfoottextfont
14504     \hsize\columnwidth \@parboxrestore
14505     \protected@edef\@currentlabel{%
14506       \csname p@mpfootnote\endcsname\@thefnmark}%
14507   \color@begingroup
14508     \@ninecolRTLfootfmt{#1}%
14509   \color@endgroup}%
14510   \m@mmf@prepare}
14511 \newcommand{\@mpNineColRTLfootnotetext}[1]{%
14512   \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14513   \global\setbox\@mpfootinsv@r\vbox{%
14514     \unvbox\@mpfootinsv@r
14515     \RTLtrue
14516     \def\baselinestretch{\m@m@footnote@spacing}%
14517     \reset@font\RTLfoottextfont
14518     \hsize\columnwidth \@parboxrestore
14519     \protected@edef\@currentlabel{%
14520       \csname p@mpfootnote\endcsname\@thefnmark}%
14521   \color@begingroup
14522     \@ninecolRTLfootfmt{#1}%
14523   \color@endgroup}%
14524   \m@mmf@prepare}
14525 \bidi@ensure@newcommand{\@make@ninecol@footgroup}[1]{%
14526   \@namedef{\@ninecol@footgroup#1}{%
14527     \def\baselinestretch{\m@m@footnote@spacing}%
14528     \hsize\bidi@columnwidth
14529     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14530     \m@r@rigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}%
14531 \newcommand{\bidi@make@ninecol@LTRfootgroup}[1]{%
14532   \@namedef{\@ninecol@LTRfootgroup#1}{%
14533     \def\baselinestretch{\m@m@footnote@spacing}%
14534     \hsize\bidi@columnwidth
14535     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14536     \bidi@LTR@rigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}%
14537 \bidi@ensure@newcommand{\@make@mpninecol@footgroup}[1]{%

```



```

14538 \namedef{@mpninecol@footgroup#1}{%
14539 \def\baselinestretch{\m@m@footnote@spacing}%
14540 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14541 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{9}{\splittopskip}}}%
14542 \newcommand{\bidi@make@mpninecol@LTRfootgroup}[1]{%
14543 \namedef{@mpninecol@LTRfootgroup#1}{%
14544 \def\baselinestretch{\m@m@footnote@spacing}%
14545 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14546 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{9}{\splittopskip}}}%
14547 \bidi@ensure@newcommand{\tencolumnfootnotes}{%
14548 \namedef{foottextfontv@r}{\foottextfont}% % [RS]
14549 \namedef{foottextfontv@l}{\LTRfoottextfont}%
14550 \@bidi@before@Hy@hyperfootnotes
14551 \let\@footnotetext\@tencolfootnotetext
14552 \let\@LTRfootnotetext\@tencolLTRfootnotetext
14553 \let\@RTLfootnotetext\@tencolRTLfootnotetext
14554 \dimen\footinsv@r=10\footinsdim
14555 \count\footinsv@r=100\relax
14556 \m@make@tencol@footgroup{v@r}%
14557 \let\@footgroupv@r\@tencol@footgroupv@r
14558 \dimen\footinsv@l=10\footinsdim
14559 \count\footinsv@l=100\relax
14560 \bidi@make@tencol@LTRfootgroup{v@l}%
14561 \let\@LTRfootgroupv@l\@tencol@LTRfootgroupv@l
14562 \let\@mpfootnotetext\@mptencolfootnotetext
14563 \let\@mpLTRfootnotetext\@mptencolLTRfootnotetext
14564 \let\@mpRTLfootnotetext\@mptencolRTLfootnotetext
14565 \@bidi@after@Hy@hyperfootnotes
14566 \m@make@mptencol@footgroup{v@r}%
14567 \let\mp@footgroupv@r\@mptencol@footgroupv@r
14568 \bidi@make@mptencol@LTRfootgroup{v@l}%
14569 \let\mp@LTRfootgroupv@l\@mptencol@LTRfootgroupv@l
14570 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14571 }
14572 \newcommand{\TenColumnFootnotes}{%
14573 \namedef{foottextfontv@r}{\foottextfont}% % [RS]
14574 \namedef{foottextfontv@l}{\LTRfoottextfont}%
14575 \@bidi@before@Hy@hyperfootnotes
14576 \let\@footnotetext\@TenColfootnotetext
14577 \let\@LTRfootnotetext\@TenColLTRfootnotetext
14578 \let\@RTLfootnotetext\@TenColRTLfootnotetext
14579 \dimen\footinsv@r=10\footinsdim
14580 \count\footinsv@r=100\relax
14581 \m@make@tencol@footgroup{v@r}%
14582 \let\@footgroupv@r\@tencol@footgroupv@r
14583 \dimen\footinsv@l=10\footinsdim
14584 \count\footinsv@l=100\relax
14585 \bidi@make@tencol@LTRfootgroup{v@l}%
14586 \let\@LTRfootgroupv@l\@tencol@LTRfootgroupv@l
14587 \let\@mpfootnotetext\@mpTenColfootnotetext
14588 \let\@mpLTRfootnotetext\@mpTenColLTRfootnotetext
14589 \let\@mpRTLfootnotetext\@mpTenColRTLfootnotetext
14590 \@bidi@after@Hy@hyperfootnotes
14591 \m@make@mptencol@footgroup{v@r}%

```




```

14592 \let\mp@footgroupv@r\@mptencol@footgroupv@r
14593 \bidi@make@mptencol@LTRfootgroup{v@1}%
14594 \let\mp@LTRfootgroupv@1\@mptencol@LTRfootgroupv@1
14595 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14596 }
14597 \bidi@ensure@newcommand{\@tencolfootnotetext}[1]{\insert
14598   \if@RTL@footnote
14599     \footinsv@r
14600   \else
14601     \footinsv@l
14602   \fi
14603 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14604   \def\baselinestretch{\m@mm@footnote@spacing}%
14605   \reset@font\foottextfont
14606   \@preamfntext
14607   \protected@edef\@currentlabel{%
14608     \csname p@footnote\endcsname\@thefnmark}%
14609   \color@begingroup
14610     \@tencolfootfmt{#1}%
14611   \color@endgroup}%
14612   \m@mmf@prepare}
14613 \newcommand{\@TenColfootnotetext}[1]{%
14614   \bidi@step@absolute@footnote@count
14615   \if@RTL@footnote
14616     \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@1
14617   \else
14618     \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14619   \fi
14620   \global\setbox
14621   \if@RTL@footnote
14622     \footinsv@r
14623   \else
14624     \footinsv@l
14625   \fi
14626   \vbox{%
14627     \unvbox
14628     \if@RTL@footnote
14629       \footinsv@r
14630     \else
14631       \footinsv@l
14632     \fi
14633     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14634     \def\baselinestretch{\m@mm@footnote@spacing}%
14635     \reset@font\foottextfont
14636     \@preamfntext
14637     \protected@edef\@currentlabel{%
14638       \csname p@footnote\endcsname\@thefnmark}%
14639     \color@begingroup
14640       \@tencolfootfmt{#1}%
14641     \color@endgroup}%
14642     \m@mmf@prepare
14643     \if@RTL@footnote
14644       \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14645     \else

```



```

14646 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14647 \fi
14648 }
14649 \bidi@ensure@newcommand{\@tencolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
14650 \def\baselinestretch{\m@m@footnote@spacing}%
14651 \reset@font\LTRfoottextfont
14652 \@preamfntext
14653 \protected@edef\@currentlabel{%
14654 \csname p@footnote\endcsname\@thefnmark}%
14655 \color@begingroup
14656 \@tencolLTRfootfmt{#1}%
14657 \color@endgroup}%
14658 \m@mmf@prepare}
14659 \newcommand{\@TenColLTRfootnotetext}[1]{%
14660 \bidi@step@absolutefootnote@count
14661 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14662 \global\setbox\footinsv@l\vbox{%
14663 \unvbox\footinsv@l
14664 \@RTLfalse%
14665 \def\baselinestretch{\m@m@footnote@spacing}%
14666 \reset@font\LTRfoottextfont
14667 \@preamfntext
14668 \protected@edef\@currentlabel{%
14669 \csname p@footnote\endcsname\@thefnmark}%
14670 \color@begingroup
14671 \@tencolLTRfootfmt{#1}%
14672 \color@endgroup}%
14673 \m@mmf@prepare
14674 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14675 }
14676 \bidi@ensure@newcommand{\@tencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14677 \def\baselinestretch{\m@m@footnote@spacing}%
14678 \reset@font\RTLfoottextfont
14679 \@preamfntext
14680 \protected@edef\@currentlabel{%
14681 \csname p@footnote\endcsname\@thefnmark}%
14682 \color@begingroup
14683 \@tencolRTLfootfmt{#1}%
14684 \color@endgroup}%
14685 \m@mmf@prepare}
14686 \newcommand{\@TenColRTLfootnotetext}[1]{%
14687 \bidi@step@absolutefootnote@count
14688 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14689 \global\setbox\footinsv@r\vbox{%
14690 \unvbox\footinsv@r
14691 \@RTLtrue
14692 \def\baselinestretch{\m@m@footnote@spacing}%
14693 \reset@font\RTLfoottextfont
14694 \@preamfntext
14695 \protected@edef\@currentlabel{%
14696 \csname p@footnote\endcsname\@thefnmark}%
14697 \color@begingroup
14698 \@tencolRTLfootfmt{#1}%
14699 \color@endgroup}%

```



```

14700 \m@mmf@prepare
14701 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14702 }
14703 \bidi@ensure@newcommand{\@preamtenfmt}{%
14704   \hsize .1\hsize
14705   \parindent=\z@
14706   \tolerance=5000\relax
14707   \leavevmode}
14708 \bidi@ensure@newcommand{\@tencolfootfmt}[1]{%
14709   \@preamtenfmt
14710   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
14711 \bidi@ensure@newcommand{\@tencolLTRfootfmt}[1]{%
14712   \@preamtenfmt
14713   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14714 \bidi@ensure@newcommand{\@tencolRTLfootfmt}[1]{%
14715   \@preamtenfmt
14716   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14717 \bidi@ensure@newcommand{\@mptencolfootnotetext}[1]{%
14718   \global\setbox
14719     \if@RTL@footnote
14720     \@mpfootinsv@r
14721   \else
14722     \@mpfootinsv@l
14723   \fi
14724   \vbox{%
14725     \unvbox
14726     \if@RTL@footnote
14727     \@mpfootinsv@r
14728   \else
14729     \@mpfootinsv@l
14730   \fi
14731   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14732   \def\baselinestretch{\m@m@footnote@spacing}%
14733   \reset@font\foottextfont
14734   \hsize\columnwidth \@parboxrestore
14735   \protected@edef\@currentlabel{%
14736     \csname p@mpfootnote\endcsname\@thefnmark}%
14737   \color@begingroup
14738     \@tencolfootfmt{#1}%
14739   \color@endgroup}%
14740 \m@mmf@prepare}
14741 \newcommand{\@mpTenColfootnotetext}[1]{%
14742   \if@RTL@footnote
14743     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14744   \else
14745     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14746   \fi
14747   \global\setbox
14748     \if@RTL@footnote
14749     \@mpfootinsv@r
14750   \else
14751     \@mpfootinsv@l
14752   \fi
14753   \vbox{%

```



```

14754 \unvbox
14755 \if@RTL@footnote
14756 \@mpfootinsv@r
14757 \else
14758 \@mpfootinsv@l
14759 \fi
14760 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14761 \def\baselinestretch{\m@m@footnote@spacing}%
14762 \reset@font\foottextfont
14763 \hsize\columnwidth \@parboxrestore
14764 \protected@edef\@currentlabel{%
14765 \csname p@mpfootnote\endcsname\@thefnmark}%
14766 \color@begingroup
14767 \@tencolfootfmt{#1}%
14768 \color@endgroup}%
14769 \m@m@mmf@prepare}
14770 \bidi@ensure@newcommand{\@mptencolLTRfootnotetext}[1]{%
14771 \global\setbox\@mpfootinsv@l\vbox{%
14772 \unvbox\@mpfootinsv@l
14773 \@RTLfalse
14774 \def\baselinestretch{\m@m@footnote@spacing}%
14775 \reset@font\LTRfoottextfont
14776 \hsize\columnwidth \@parboxrestore
14777 \protected@edef\@currentlabel{%
14778 \csname p@mpfootnote\endcsname\@thefnmark}%
14779 \color@begingroup
14780 \@tencolLTRfootfmt{#1}%
14781 \color@endgroup}%
14782 \m@m@mmf@prepare}
14783 \newcommand{\@mpTenColLTRfootnotetext}[1]{%
14784 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14785 \global\setbox\@mpfootinsv@l\vbox{%
14786 \unvbox\@mpfootinsv@l
14787 \@RTLfalse
14788 \def\baselinestretch{\m@m@footnote@spacing}%
14789 \reset@font\LTRfoottextfont
14790 \hsize\columnwidth \@parboxrestore
14791 \protected@edef\@currentlabel{%
14792 \csname p@mpfootnote\endcsname\@thefnmark}%
14793 \color@begingroup
14794 \@tencolLTRfootfmt{#1}%
14795 \color@endgroup}%
14796 \m@m@mmf@prepare}
14797 \bidi@ensure@newcommand{\@mptencolRTLfootnotetext}[1]{%
14798 \global\setbox\@mpfootinsv@r\vbox{%
14799 \unvbox\@mpfootinsv@r
14800 \@RTLtrue
14801 \def\baselinestretch{\m@m@footnote@spacing}%
14802 \reset@font\RTLfoottextfont
14803 \hsize\columnwidth \@parboxrestore
14804 \protected@edef\@currentlabel{%
14805 \csname p@mpfootnote\endcsname\@thefnmark}%
14806 \color@begingroup
14807 \@tencolRTLfootfmt{#1}%

```



```

14808 \color@endgroup}%
14809 \m@mmf@prepare}
14810 \newcommand{\@mpTenColRTLfootnotetext}[1]{%
14811 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14812 \global\setbox\@mpfootinsv@r\vbox{%
14813 \unvbox\@mpfootinsv@r
14814 \RTLtrue
14815 \def\baselinestretch{\m@m@footnote@spacing}%
14816 \reset@font\RTLfoottextfont
14817 \hsize\columnwidth \@parboxrestore
14818 \protected@edef\@currentlabel{%
14819 \csname p@mpfootnote\endcsname\@thefnmark}%
14820 \color@begingroup
14821 \@tencolRTLfootfmt{#1}%
14822 \color@endgroup}%
14823 \m@mmf@prepare}
14824 \bidi@ensure@newcommand{\m@make@tencol@footgroup}[1]{%
14825 \@namedef{@tencol@footgroup#1}{%
14826 \def\baselinestretch{\m@m@footnote@spacing}%
14827 \hsize\bidi@columnwidth
14828 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14829 \m@mrigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}}
14830 \newcommand{\bidi@make@tencol@LTRfootgroup}[1]{%
14831 \@namedef{@tencol@LTRfootgroup#1}{%
14832 \def\baselinestretch{\m@m@footnote@spacing}%
14833 \hsize\bidi@columnwidth
14834 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14835 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}}
14836 \bidi@ensure@newcommand{\m@make@mptencol@footgroup}[1]{%
14837 \@namedef{@mptencol@footgroup#1}{%
14838 \def\baselinestretch{\m@m@footnote@spacing}%
14839 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14840 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{10}{\splittopskip}}}}
14841 \newcommand{\bidi@make@mptencol@LTRfootgroup}[1]{%
14842 \@namedef{@mptencol@LTRfootgroup#1}{%
14843 \def\baselinestretch{\m@m@footnote@spacing}%
14844 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14845 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{10}{\splittopskip}}}}
14846 \bidi@ensure@newcommand{\m@munvxh}[1]{%
14847 \setbox0=\vbox{\unvbox#1}
14848 \global\setbox1=\lastbox}%
14849 \unhbox1
14850 \unskip
14851 \unskip
14852 \unpenalty
14853 \hskip\m@mipn@skip}
14854 \bidi@ensure@newcommand{\m@mungebox}{%
14855 \setbox0=\hbox{\m@munvxh0}%
14856 \dp0=\z@
14857 \ht0=\footfudgefactor\wd0
14858 \box0
14859 \penalty0}
14860 \newskip\m@mipn@skip
14861 \bidi@ensure@newcommand*{\m@minterparanoteglua}[1]{%

```



```

14862 {\foottextfont\global\m@mipn@skip=#1\relax}}
14863 \m@minterparanoteglue{1em plus.3em minus.3em}
14864 \bidi@ensure@newcommand*{\m@mmakehboxofhboxes}{%
14865 \setbox0=\hbox{}}%
14866 \loop
14867 \unpenalty
14868 \setbox2=\lastbox
14869 \ifhbox2
14870 \setbox0=\hbox{\box2\unhbox0}
14871 \repeat}
14872 \bidi@ensure@newcommand*{\m@mremovehboxes}{\setbox0=\lastbox
14873 \ifhbox0{\m@mremovehboxes}\unhbox0 \fi}
14874 \newcommand*{\AddExtraParaSkip[1]}{%
14875 \def\bidi@xparaskip{\advance\@tempdima#1\relax}%
14876 }
14877 \let\bidi@xparaskip\relax
14878 \@onlypreamble\AddExtraParaSkip
14879 \@onlypreamble\bidi@xparaskip
14880 \def\bidi@startparafootskip#1{%
14881 \global\advance\skip#1\bidi@paraskip
14882 }
14883 \@onlypreamble\bidi@startparafootskip
14884 \bidi@ensure@newcommand{\paragraphfootnotes}{%
14885 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14886 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14887 \@bidi@before@Hy@hyperfootnotes
14888 \let\@footnotetext\@parafootnotetext
14889 \let\@LTRfootnotetext\@paraLTRfootnotetext
14890 \let\@RTLfootnotetext\@paraRTLfootnotetext
14891 \dimen\footinsv@r=\footinsdim
14892 \count\footinsv@r=1000\relax
14893 \let\bidi@removexfootskip\bidi@removexparafootskip
14894 \m@make@para@footgroup{v@r}%
14895 \m@make@para@footstart{v@r}%
14896 \let\@footgroupv@r\@para@footgroupv@r
14897 \let\@footstartv@r\@para@footstartv@r
14898 \dimen\footinsv@l=\footinsdim
14899 \count\footinsv@l=1000\relax
14900 \bidi@make@para@LTRfootgroup{v@l}%
14901 \m@make@para@footstart{v@l}%
14902 \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
14903 \let\@footstartv@l\@para@footstartv@l
14904 \let\@mpfootnotetext\@mpparafootnotetext
14905 \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
14906 \let\@mpRTLfootnotetext\@mpparaRTLfootnotetext
14907 \@bidi@after@Hy@hyperfootnotes
14908 \m@make@mppara@footgroup{v@r}%
14909 \bidi@make@mppara@LTRfootgroup{v@l}%
14910 \let\mp@footgroupv@r\@mppara@footgroupv@r
14911 \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
14912 \g@addto@macro\bidi@floathook{%
14913 \begingroup
14914 \foottextfont \@tempdima\normalbaselineskip
14915 \multiply \@tempdima \@cclvi

```



```

14916 \tempdimb \columnwidth
14917 \divide \tempdimb \ccclvi
14918 \divide \tempdima \tempdimb
14919 \xdef\footfudgefactor{\strip@pt\tempdima}%
14920 \endgroup
14921 }
14922 \AtBeginDocument{%
14923 \begingroup
14924 \foottextfont
14925 \tempdima\footnotesep
14926 \advance\tempdima -\ht\strutbox
14927 \ifdim\tempdima<z@ \tempdima z@ \fi
14928 \advance\tempdima.5\normalbaselineskip
14929 \bidi@xparaskip
14930 \xdef\bidi@paraskip{\the\tempdima\relax}%
14931 \endgroup
14932 \bidi@startparafootskip\footinsv@r
14933 \bidi@startparafootskip\footinsv@l
14934 }
14935 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14936 }
14937 \newcommand{\ParagraphFootnotes}{%
14938 \namedef{foottextfontv@r}{\foottextfont}%
14939 \namedef{foottextfontv@l}{\LTRfoottextfont}%
14940 \@bidi@before@Hy@hyperfootnotes
14941 \let\@footnotetext\@Parafootnotetext
14942 \let\@LTRfootnotetext\@ParaLTRfootnotetext
14943 \let\@RTLfootnotetext\@ParaRTLfootnotetext
14944 \dimen\footinsv@r=\footinsdim
14945 \count\footinsv@r=1000\relax
14946 \let\bidi@removexfootskip\bidi@removexparafootskip
14947 \m@make@para@footgroup{v@r}%
14948 \m@make@para@footstart{v@r}%
14949 \let\@footgroupv@r\@para@footgroupv@r
14950 \let\@footstartv@r\@para@footstartv@r
14951 \dimen\footinsv@l=\footinsdim
14952 \count\footinsv@l=1000\relax
14953 \bidi@make@para@LTRfootgroup{v@l}%
14954 \m@make@para@footstart{v@l}%
14955 \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
14956 \let\@footstartv@l\@para@footstartv@l
14957 \let\@mpfootnotetext\@mpParafootnotetext
14958 \let\@mpLTRfootnotetext\@mpParaLTRfootnotetext
14959 \let\@mpRTLfootnotetext\@mpParaRTLfootnotetext
14960 \@bidi@after@Hy@hyperfootnotes
14961 \m@make@mppara@footgroup{v@r}%
14962 \bidi@make@mppara@LTRfootgroup{v@l}%
14963 \let\mp@footgroupv@r\@mppara@footgroupv@r
14964 \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
14965 \g@addto@macro\bidi@floathook{%
14966 \begingroup
14967 \foottextfont \tempdima\normalbaselineskip
14968 \multiply \tempdima \ccclvi
14969 \tempdimb \columnwidth

```



```

14970     \divide \@tempdimb \@cclvi
14971     \divide \@tempdima \@tempdimb
14972     \xdef\footfudgefactor{\strip@pt\@tempdima}%
14973     \endgroup
14974 }
14975 \AtBeginDocument{%
14976     \begingroup
14977     \foottextfont
14978     \@tempdima\footnotesep
14979     \advance\@tempdima -\ht\strutbox
14980     \ifdim\@tempdima<z@ \@tempdima z@ \fi
14981     \advance\@tempdima.5\normalbaselineskip
14982     \bidi@xparaskip
14983     \xdef\bidi@paraskip{\the\@tempdima\relax}%
14984     \endgroup
14985     \bidi@startparafootskip\footinsv@r
14986     \bidi@startparafootskip\footinsv@l
14987 }
14988 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14989 }
14990 \newcommand{\normalRTLparaLTRfootnotes}{%
14991     \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14992     \@bidi@before@Hy@hyperfootnotes
14993     \if@RTL@footnote
14994         \let\@footnotetext\m@mold@footnotetext
14995     \else
14996         \let\@footnotetext\@parafootnotetext
14997     \fi
14998     \let\@LTRfootnotetext\@paraLTRfootnotetext
14999     \let\@RTLfootnotetext\m@mold@RTLfootnotetext
15000     \dimen\footinsv@l=\footinsdim
15001     \count\footinsv@l=1000\relax
15002     \let\bidi@removexfootskip\bidi@removexparafootskip
15003     \bidi@make@para@LTRfootgroup{v@l}%
15004     \m@make@para@footstart{v@l}%
15005     \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
15006     \let\@footstartv@l\@para@footstartv@l
15007     \if@RTL@footnote
15008         \let\@mpfootnotetext\m@mold@mpfootnotetext
15009     \else
15010         \let\@mpfootnotetext\@mpparafootnotetext
15011     \fi
15012     \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
15013     \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
15014     \@bidi@after@Hy@hyperfootnotes
15015     \bidi@make@mppara@LTRfootgroup{v@l}%
15016     \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
15017     \g@addto@macro\bidi@floathook{%
15018         \begingroup
15019         \LTRfoottextfont \@tempdima\normalbaselineskip
15020         \multiply \@tempdima \@cclvi
15021         \@tempdimb \columnwidth
15022         \divide \@tempdimb \@cclvi
15023         \divide \@tempdima \@tempdimb

```




```

15024     \xdef\footfudgefactor{\strip@pt\@tempdima}%
15025   \endgroup
15026 }
15027 \AtBeginDocument{%
15028   \begingroup
15029     \LTRfoottextfont
15030     \@tempdima\footnotesep
15031     \advance\@tempdima -\ht\strutbox
15032     \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
15033     \advance\@tempdima.5\normalbaselineskip
15034     \bidi@xparaskip
15035     \xdef\bidi@paraskip{\the\@tempdima\relax}%
15036   \endgroup
15037   \bidi@startparafootskip\footinsv@l
15038 }
15039   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
15040 }
15041 \newcommand{\NormalRTLParaLTRFootnotes}{%
15042   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
15043   \@bidi@before@Hy@hyperfootnotes
15044   \ifRTL@footnote
15045     \let\@footnotetext\bidi@bidiold@footnotetext
15046   \else
15047     \let\@footnotetext\@Parafootnotetext
15048   \fi
15049   \let\@LTRfootnotetext\@ParaLTRfootnotetext
15050   \let\@RTLfootnotetext\bidi@bidiold@RTLfootnotetext
15051   \dimen\footinsv@l=\footinsdim
15052   \count\footinsv@l=1000\relax
15053   \let\bidi@removexfootskip\bidi@removexparafootskip
15054   \bidi@make@para@LTRfootgroup{v@l}%
15055   \m@make@para@footstart{v@l}%
15056   \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
15057   \let\@footstartv@l\@para@footstartv@l
15058   \ifRTL@footnote
15059     \let\@mpfootnotetext\bidi@bidiold@mpfootnotetext
15060   \else
15061     \let\@mpfootnotetext\@mpParafootnotetext
15062   \fi
15063   \let\@mpLTRfootnotetext\@mpParaLTRfootnotetext
15064   \let\@mpRTLfootnotetext\bidi@bidiold@mpRTLfootnotetext
15065   \@bidi@after@Hy@hyperfootnotes
15066   \bidi@make@mppara@LTRfootgroup{v@l}%
15067   \let\@mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
15068   \g@addto@macro\bidi@floathook{%
15069     \begingroup
15070       \LTRfoottextfont \@tempdima\normalbaselineskip
15071       \multiply \@tempdima \@cclvi
15072       \@tempdimb \columnwidth
15073       \divide \@tempdimb \@cclvi
15074       \divide \@tempdima \@tempdimb
15075       \xdef\footfudgefactor{\strip@pt\@tempdima}%
15076     \endgroup
15077   }

```



```

15078 \AtBeginDocument{%
15079   \begingroup
15080     \LTRfoottextfont
15081     \@tempdima\footnotesep
15082     \advance\@tempdima -\ht\strutbox
15083     \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
15084     \advance\@tempdima.5\normalbaselineskip
15085     \bidi@xparaskip
15086     \xdef\bidi@paraskip{\the\@tempdima\relax}%
15087   \endgroup
15088   \bidi@startparafootskip\footinsv@l
15089 }
15090 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
15091 }
15092 \bidi@ensure@newcommand{\@parafootnotetext}[1]{\insert
15093   \if@RTL@footnote
15094     \footinsv@r
15095   \else
15096     \footinsv@l
15097   \fi
15098   {%
15099     \let\bidi@RTL@everypar\@empty%
15100     \def\baselinestretch{\m@mm@footnote@spacing}%
15101     \reset@font\foottextfont
15102     \@preamfntext
15103     \protected@edef\@currentlabel{%
15104       \csname p@footnote\endcsname\@thefnmark}%
15105     \setbox0=\vbox{\hsize=\maxdimen
15106       \color@begingroup
15107         \noindent \@parafootfmt{#1}%
15108       \color@endgroup}%
15109     \m@mungebox}\m@mmf@prepare}
15110 \newcommand{\@Parafootnotetext}[1]{%
15111   \bidi@step@absolutefootnote@count
15112   \if@RTL@footnote
15113     \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15114   \else
15115     \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
15116   \fi
15117   \global\setbox
15118   \if@RTL@footnote
15119     \footinsv@r
15120   \else
15121     \footinsv@l
15122   \fi
15123   \vbox{%
15124     \unvbox
15125     \if@RTL@footnote
15126       \footinsv@r
15127     \else
15128       \footinsv@l
15129     \fi
15130     \let\bidi@RTL@everypar\@empty%
15131     \def\baselinestretch{\m@mm@footnote@spacing}%

```



```

15132 \reset@font\foottextfont
15133 \@preamfntext
15134 \protected@edef\@currentlabel{%
15135   \csname p@footnote\endcsname\@thefnmark}%
15136 \setbox0=\vbox{\hsize=\maxdimen
15137   \color@begingroup
15138   \noindent \@parafootfmt{#1}%
15139   \color@endgroup}%
15140 \m@mmungebox}\m@mmf@prepare
15141 \if@RTL@footnote
15142   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
15143 \else
15144   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15145 \fi
15146 }
15147 \bidi@ensure@newcommand{\@paraLTRfootnotetext}[1]{\insert\footinsv@l{%
15148 \let\bidi@RTL@everypar\@empty%
15149 \def\baselinestretch{\m@m@footnote@spacing}%
15150 \reset@font\LTRfoottextfont
15151 \@preamfntext
15152 \protected@edef\@currentlabel{%
15153   \csname p@footnote\endcsname\@thefnmark}%
15154 \setbox0=\vbox{\hsize=\maxdimen
15155   \color@begingroup
15156   \noindent \@paraLTRfootfmt{#1}%
15157   \color@endgroup}%
15158 \m@mmungebox}\m@mmf@prepare}
15159 \newcommand{\@ParaLTRfootnotetext}[1]{%
15160 \bidi@step@absolutefootnote@count
15161 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
15162 \global\setbox\footinsv@l\vbox{%
15163 \unvbox\footinsv@l
15164 \let\bidi@RTL@everypar\@empty%
15165 \def\baselinestretch{\m@m@footnote@spacing}%
15166 \reset@font\LTRfoottextfont
15167 \@preamfntext
15168 \protected@edef\@currentlabel{%
15169   \csname p@footnote\endcsname\@thefnmark}%
15170 \setbox0=\vbox{\hsize=\maxdimen
15171   \color@begingroup
15172   \noindent \@paraLTRfootfmt{#1}%
15173   \color@endgroup}%
15174 \m@mmungebox}\m@mmf@prepare
15175 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15176 }
15177 \bidi@ensure@newcommand{\@paraRTLfootnotetext}[1]{\insert\footinsv@r{%
15178 \let\bidi@RTL@everypar\@empty%
15179 \def\baselinestretch{\m@m@footnote@spacing}%
15180 \reset@font\RTLfoottextfont
15181 \@preamfntext
15182 \protected@edef\@currentlabel{%
15183   \csname p@footnote\endcsname\@thefnmark}%
15184 \setbox0=\vbox{\hsize=\maxdimen
15185   \color@begingroup

```



```

15186 \noindent \@paraRTLfootfmt{#1}%
15187 \color@endgroup}%
15188 \m@mungebox}\m@mmf@prepare}
15189 \newcommand{\@ParaRTLfootnotetext}[1]{%
15190 \bidi@step@absolutefootnote@count
15191 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15192 \global\setbox\footinsv@r\vbox{%
15193 \unvbox\footinsv@r
15194 \let\bidi@RTL@everypar\@empty%
15195 \def\baselinestretch{\m@m@footnote@spacing}%
15196 \reset@font\RTLfoottextfont
15197 \@preamfntext
15198 \protected@edef\@currentlabel{%
15199 \csname p@footnote\endcsname\@thefnmark}%
15200 \setbox0=\vbox{\hsize=\maxdimen
15201 \color@begingroup
15202 \noindent \@paraRTLfootfmt{#1}%
15203 \color@endgroup}%
15204 \m@mungebox}\m@mmf@prepare
15205 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
15206 }
15207 \bidi@ensure@newcommand{\@parafootfmt}[1]{%
15208 \parindent=\z@
15209 \parfillskip=0pt \@plus 1fil
15210 {\footfootmark\strut {\foottextfont #1}\penalty-10}}
15211 \bidi@ensure@newcommand{\@paraLTRfootfmt}[1]{%
15212 \parindent=\z@
15213 \parfillskip=0pt \@plus 1fil
15214 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\penalty-10}}
15215 \bidi@ensure@newcommand{\@paraRTLfootfmt}[1]{%
15216 \parindent=\z@
15217 \parfillskip=0pt \@plus 1fil
15218 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\penalty-10}}
15219 \bidi@ensure@newcommand{\@mpparafootnotetext}[1]{%
15220 \global\setbox
15221 \if@RTL@footnote
15222 \@mpfootinsv@r
15223 \else
15224 \@mpfootinsv@l
15225 \fi
15226 \vbox{%
15227 \unvbox
15228 \if@RTL@footnote
15229 \@mpfootinsv@r
15230 \else
15231 \@mpfootinsv@l
15232 \fi
15233 \let\bidi@RTL@everypar\@empty
15234 \def\baselinestretch{\m@m@footnote@spacing}%
15235 \reset@font\foottextfont
15236 \hsize\columnwidth \@parboxrestore
15237 \protected@edef\@currentlabel{%
15238 \csname p@mpfootnote\endcsname\@thefnmark}%
15239 \setbox0=\vbox{\hsize=\maxdimen

```



```

15240     \color@begingroup
15241     \noindent \@parafootfmt{#1}%
15242     \color@endgroup}%
15243     \m@mungebox}\m@mmf@prepare}
15244 \newcommand{\@mpParafootnotetext}[1]{%
15245   \if@RTL@footnote
15246     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
15247   \else
15248     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
15249   \fi
15250   \global\setbox
15251   \if@RTL@footnote
15252     \@mpfootinsv@r
15253   \else
15254     \@mpfootinsv@l
15255   \fi
15256   \vbox{%
15257     \unvbox
15258     \if@RTL@footnote
15259       \@mpfootinsv@r
15260     \else
15261       \@mpfootinsv@l
15262     \fi
15263     \let\bidi@RTL@everypar\@empty
15264     \def\baselinestretch{\m@m@footnote@spacing}%
15265     \reset@font\foottextfont
15266     \hsize\columnwidth \@parboxrestore
15267     \protected@edef\@currentlabel{%
15268       \csname p@mpfootnote\endcsname\@thefnmark}%
15269     \setbox0=\vbox{\hsize=\maxdimen
15270       \color@begingroup
15271       \noindent \@parafootfmt{#1}%
15272       \color@endgroup}%
15273     \m@mungebox}\m@mmf@prepare}
15274 \bidi@ensure@newcommand{\@mpparaLTRfootnotetext}[1]{%
15275   \global\setbox\@mpfootinsv@l\vbox{%
15276     \unvbox\@mpfootinsv@l
15277     \let\bidi@RTL@everypar\@empty
15278     \def\baselinestretch{\m@m@footnote@spacing}%
15279     \reset@font\LTRfoottextfont
15280     \hsize\columnwidth \@parboxrestore
15281     \protected@edef\@currentlabel{%
15282       \csname p@mpfootnote\endcsname\@thefnmark}%
15283     \setbox0=\vbox{\hsize=\maxdimen
15284       \color@begingroup
15285       \noindent \@paraLTRfootfmt{#1}%
15286       \color@endgroup}%
15287     \m@mungebox}\m@mmf@prepare}
15288 \newcommand{\@mpParaLTRfootnotetext}[1]{%
15289   \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
15290   \global\setbox\@mpfootinsv@l\vbox{%
15291     \unvbox\@mpfootinsv@l
15292     \let\bidi@RTL@everypar\@empty
15293     \def\baselinestretch{\m@m@footnote@spacing}%

```



```

15294 \reset@font\LTRfoottextfont
15295 \hsize\columnwidth \@parboxrestore
15296 \protected@edef\@currentlabel{%
15297 \csname p@mpfootnote\endcsname\@thefnmark}%
15298 \setbox0=\vbox{\hsize=\maxdimen
15299 \color@begingroup
15300 \noindent \@paraLTRfootfmt{#1}%
15301 \color@endgroup}%
15302 \m@ungebox}\m@mfm@prepare}
15303 \bidi@ensure@newcommand{\mpparaRTLfootnotetext}[1]{%
15304 \global\setbox\@mpfootinsv@r\vbox{%
15305 \unvbox\@mpfootinsv@r
15306 \let\bidi@RTL@everypar\@empty
15307 \def\baselinestretch{\m@m@footnote@spacing}%
15308 \reset@font\RTLfoottextfont
15309 \hsize\columnwidth \@parboxrestore
15310 \protected@edef\@currentlabel{%
15311 \csname p@mpfootnote\endcsname\@thefnmark}%
15312 \setbox0=\vbox{\hsize=\maxdimen
15313 \color@begingroup
15314 \noindent \@paraRTLfootfmt{#1}%
15315 \color@endgroup}%
15316 \m@ungebox}\m@mfm@prepare}
15317 \newcommand{\@mpParaRTLfootnotetext}[1]{%
15318 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
15319 \global\setbox\@mpfootinsv@r\vbox{%
15320 \unvbox\@mpfootinsv@r
15321 \let\bidi@RTL@everypar\@empty
15322 \def\baselinestretch{\m@m@footnote@spacing}%
15323 \reset@font\RTLfoottextfont
15324 \hsize\columnwidth \@parboxrestore
15325 \protected@edef\@currentlabel{%
15326 \csname p@mpfootnote\endcsname\@thefnmark}%
15327 \setbox0=\vbox{\hsize=\maxdimen
15328 \color@begingroup
15329 \noindent \@paraRTLfootfmt{#1}%
15330 \color@endgroup}%
15331 \m@ungebox}\m@mfm@prepare}
15332 \bidi@ensure@newcommand{\m@make@para@footgroup}[1]{%
15333 \@namedef{\@para@footgroup#1}{%
15334 \unvbox\@nameuse{footins#1}
15335 \@RTLtrue
15336 \m@mmakehboxofhboxes
15337 \setbox0=\hbox{\unhbox0 \m@removehboxes}%
15338 \hsize\bidi@columnwidth
15339 \@parboxrestore
15340 \def\baselinestretch{\m@m@footnote@spacing}%
15341 \@nameuse{foottextfont#1}%
15342 \noindent\unhbox0\par}}
15343 \bidi@ensure@newcommand{\bidi@make@para@LTRfootgroup}[1]{%
15344 \@namedef{\@para@LTRfootgroup#1}{%
15345 \unvbox\@nameuse{footins#1}
15346 \@RTLfalse
15347 \m@mmakehboxofhboxes

```



```

15348 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
15349 \hsize\bidicolumnwidth
15350 \@parboxrestore
15351 \def\baselinestretch{\m@m@footnote@spacing}%
15352 \@nameuse{foottextfont#1}%
15353 \noindent\unhbox0\par}}
15354 \newcommand{\bidi@removexparafootskip}{%
15355 \advance\@tempskipa -\bidi@paraskip
15356 \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
15357 }
15358 \let\bidi@removexfootskip\relax
15359 \bidi@ensure@newcommand{\m@make@mppara@footgroup}[1]{%
15360 \@namedef{@mppara@footgroup#1}{%
15361 \unvbox\@nameuse{@mpfootins#1}
15362 \@RTLtrue
15363 \m@mmakehboxofhboxes
15364 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
15365 \def\baselinestretch{\m@m@footnote@spacing}%
15366 \@nameuse{foottextfont#1}%
15367 \noindent\unhbox0\par}}
15368 \bidi@ensure@newcommand{\bidi@make@mppara@LTRfootgroup}[1]{%
15369 \@namedef{@mppara@LTRfootgroup#1}{%
15370 \unvbox\@nameuse{@mpfootins#1}
15371 \@RTLfalse
15372 \m@mmakehboxofhboxes
15373 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
15374 \def\baselinestretch{\m@m@footnote@spacing}%
15375 \@nameuse{foottextfont#1}%
15376 \noindent\unhbox0\par}}
15377 \bidi@ensure@newcommand{\m@make@para@footstart}[1]{%
15378 \@namedef{@para@footstart#1}{%
15379 \leftskip=\z@
15380 \rightskip=\z@
15381 \parindent=\z@
15382 }%
15383 }
15384 \bidi@ensure@newcommand*{\m@m@makecolfloats}{%
15385 \xdef\@freelist{\@freelist\@midlist}%
15386 \global\let\@midlist\@empty
15387 \@combinefloats}
15388 \bidi@ensure@newcommand*{\m@m@makecoltext}{%
15389 \ifvbox\@kludgeins
15390 \@makespecialcolbox
15391 \else
15392 \setbox\@outputbox \vbox to\@colht{%
15393 \@texttop
15394 \dimen@ \dp\@outputbox
15395 \unvbox \@outputbox
15396 \vskip -\dimen@
15397 \@textbottom}%
15398 \fi}
15399 \bidi@ensure@newcommand*{\m@m@makecolintro}{%
15400 \bidi@ensure@newcommand*{\m@mopfootnote}{\setbox\@outputbox \vbox{%
15401 \boxmaxdepth\@maxdepth

```



```

15402 \@tempdima\dp\@cclv
15403 \unvbox\@cclv
15404 \vskip-\@tempdima
15405 \bidi@mopfn@bottom
15406 \vskip \skip\footins
15407 \color@begingroup
15408 \normalcolor
15409 \footnoterule
15410 \unvbox \footins
15411 \color@endgroup
15412 }%
15413 }
15414 \newcommand*{\bidi@mopfootnotebf}{%
15415 \setbox\@outputbox \vbox{%
15416 \boxmaxdepth\@maxdepth
15417 \unvbox\@outputbox
15418 \bidi@mopfn@bottom
15419 \vskip\skip\footins
15420 \color@begingroup
15421 \normalcolor
15422 \footnoterule
15423 \unvbox \footins
15424 \color@endgroup
15425 }%
15426 }
15427 \gdef\mem@makecol{%
15428 \m@m@makecolintro
15429 \m@m@doextrafeet
15430 \ifvoid\footins
15431 \setbox\@outputbox \box\@cclv
15432 \else
15433 \m@mopfootnote
15434 \fi
15435 \m@m@makecolfloats
15436 \m@m@makecoltext
15437 \global \maxdepth \@maxdepth}
15438 \gdef\bidi@makecolbf{%
15439 \m@m@makecolintro
15440 \m@m@doextrafeet
15441 \setbox\@outputbox \box\@cclv
15442 \m@m@makecolfloats
15443 \ifvoid\footins
15444 \else
15445 \bidi@mopfootnotebf
15446 \fi
15447 \m@m@makecoltext
15448 \global \maxdepth \@maxdepth}
15449 \newcommand{\FeetAboveFloat}{\gdef\@makecol{\mem@makecol}}
15450 \newcommand{\FeetBelowFloat}{\gdef\@makecol{\bidi@makecolbf}}
15451 \newcommand\FeetAtBottom{\def\bidi@mopfn@bottom{\vfill\relax}}
15452 \newcommand\FeetBelowRagged{\let\bidi@mopfn@bottom\relax}
15453 \FeetAboveFloat
15454 \FeetBelowRagged
15455 \def\bidi@reinserts#1{\ifvoid#1\else

```




```

15456 \ifnum\count\@currbox>\z@
15457 \advance\@pageht \ht#1%
15458 \advance\@pageht \skip#1%
15459 \advance\@pageht \dp#1%
15460 \fi
15461 \insert#1{\unvbox#1}%
15462 \fi
15463 }
15464 \def\bid@init@multi@footins#1{%
15465 \multiply\count#1\col@number
15466 \multiply\skip#1\col@number
15467 }
15468 \def\bid@reinsert@footnotes#1{\ifvoid#1\else
15469 \insert#1{}\fi}
15470 \AtBeginDocument{%
15471 \bid@preto\@doclearpage\m@mdoextrafeet
15472 \g@addto@macro\@reinserts{%
15473 \bid@reinserts\footinsv@r
15474 \bid@reinserts\footinsv@l
15475 }
15476 \bid@floathook
15477 \g@addto@macro\@floatplacement{%
15478 \bid@ifmulticol{}\{\bid@floathook}%
15479 }%
15480 \if\bid@csundef{multi@column@out}{%
15481 \onlypreamble\bid@init@multi@footins
15482 \let\bid@ifmulticol\@secondoftwo
15483 }{%
15484 \bid@preto\multi@column@out\m@mdoextrafeet
15485 \g@addto@macro\init@mult@footins{%
15486 \bid@init@multi@footins\footinsv@r
15487 \bid@init@multi@footins\footinsv@l
15488 }%
15489 \g@addto@macro\reinsert@footnotes{%
15490 \bid@reinsert@footnotes\footinsv@r
15491 \bid@reinsert@footnotes\footinsv@l
15492 }%
15493 }%
15494 }

```

87 File extreport-xetex-bidi.def

```

15495 \ProvidesFile{extreport-xetex-bidi.def}[2017/06/09 v0.3 bidi adaptations for extreport class]
15496 \renewcommand*\l@part[2]{%
15497 \ifnum \c@tocdepth >-2\relax
15498 \addpenalty{-\@highpenalty}%
15499 \addvspace{2.25em \@plus\p}%
15500 \begingroup
15501 \setlength\@tempdima{3em}%
15502 \parindent \z@ \ifRTL\leftskip\else\rightskip\fi \@pnumwidth
15503 \parfillskip -\@pnumwidth
15504 {\leavevmode
15505 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
15506 \nobreak

```



```

15507         \global\@nbreaktrue
15508         \everypar{\global\@nbreakfalse\everypar{}}%
15509     \endgroup
15510 \fi}
15511 \renewcommand*\l@chapter[2]{%
15512     \ifnum \c@tocdepth >\m@ne
15513         \addpenalty{-\@highpenalty}%
15514         \vskip 1.0em \@plus\p@
15515         \setlength\@tempdima{1.5em}%
15516         \begingroup
15517             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
15518             \parfillskip -\@pnumwidth
15519             \leavevmode \bfseries
15520             \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
15521             \hskip -\if@RTL\rightskip\else\leftskip\fi
15522             #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
15523             \penalty\@highpenalty
15524         \endgroup
15525 \fi}
15526 \def\@makechapterhead#1{%
15527     \vspace*{50\p@}%
15528     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
15529         \ifnum \c@secnumdepth >\m@ne
15530             \huge\bfseries \@chapapp\space \thechapter
15531             \par\nobreak
15532             \vskip 20\p@
15533         \fi
15534         \interlinepenalty\@M
15535         \Huge \bfseries #1\par\nobreak
15536         \vskip 40\p@
15537     }}
15538 \def\@makeschapterhead#1{%
15539     \vspace*{50\p@}%
15540     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
15541         \normalfont
15542         \interlinepenalty\@M
15543         \Huge \bfseries #1\par\nobreak
15544         \vskip 40\p@
15545     }}
15546 \renewcommand\left@footnoterule{%
15547     \kern-3\p@
15548     \hrule\@width.4\columnwidth
15549     \kern2.6\p@}
15550 \renewcommand\right@footnoterule{%
15551     \kern-3\p@
15552     \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
15553     \kern2.6\p@}
15554 \renewenvironment{thebibliography}[1]
15555     {\chapter*{\bibname
15556         \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
15557         \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
15558         \bidi@thebibliography@font@hook%
15559         \list{\@biblabel{\@arabic{c@enumiv}}}%
15560         {\settowidth\labelwidth{\@biblabel{#1}}%

```



```

15561         \leftmargin\labelwidth
15562         \advance\leftmargin\labelsep
15563         \@openbib@code
15564         \usecounter{enumiv}%
15565         \let\p@enumiv\@empty
15566         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
15567     \sloppy\clubpenalty4000\widowpenalty4000%
15568     \sfcode`.\@m}
15569     {\def\@noitemerr
15570     {\@latex@warning{Empty `thebibliography' environment}}}%
15571     \endlist}
15572 \if@titlepage
15573 \renewcommand\maketitle{\begin{titlepage}%
15574 \let\footnotesize\small
15575 \let\right@footnoterule\relax
15576 \let\left@footnoterule\relax
15577 \let\textwidth\footnoterule\relax
15578 \let \footnote \thanks
15579 \null\vfil
15580 \vskip 60\p@
15581 \begin{center}%
15582     {\LARGE \@title \par}%
15583     \vskip 3em%
15584     {\large
15585     \lineskip .75em%
15586     \begin{tabular}[t]{c}%
15587         \@author
15588         \end{tabular}\par}%
15589     \vskip 1.5em%
15590     {\large \@date \par}%           % Set date in \large size.
15591 \end{center}\par
15592 \@thanks
15593 \vfil\null
15594 \end{titlepage}%
15595 \setcounter{footnote}{0}%
15596 \global\let\thanks\relax
15597 \global\let\maketitle\relax
15598 \global\let\@thanks\@empty
15599 \global\let\@author\@empty
15600 \global\let\@date\@empty
15601 \global\let\@title\@empty
15602 \global\let\title\relax
15603 \global\let\author\relax
15604 \global\let\date\relax
15605 \global\let\and\relax
15606 }
15607 \else
15608 \renewcommand\maketitle{\par
15609 \begin{group
15610     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
15611     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
15612     \long\def\@makefntext##1{\parindent 1em\noindent
15613         \hb@xt@1.8em{%
15614             \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%

```



```

15615 \if@twocolumn
15616 \ifnum \col@number=\@ne
15617 \maketitle
15618 \else
15619 \twocolumn[\maketitle]%
15620 \fi
15621 \else
15622 \newpage
15623 \global\let\topnum\z@ % Prevents figures from going at top of page.
15624 \maketitle
15625 \fi
15626 \thispagestyle{plain}\@thanks
15627 \endgroup
15628 \setcounter{footnote}{0}%
15629 \global\let\thanks\relax
15630 \global\let\maketitle\relax
15631 \global\let\@maketitle\relax
15632 \global\let\@thanks\@empty
15633 \global\let\@author\@empty
15634 \global\let\@date\@empty
15635 \global\let\@title\@empty
15636 \global\let\title\relax
15637 \global\let\author\relax
15638 \global\let\date\relax
15639 \global\let\and\relax
15640 }
15641 \def\maketitle{%
15642 \newpage
15643 \null
15644 \vskip 2em%
15645 \begin{center}%
15646 \let \footnote \thanks
15647 {\LARGE \@title \par}%
15648 \vskip 1.5em%
15649 {\large
15650 \lineskip .5em%
15651 \begin{tabular}[t]{c}%
15652 \@author
15653 \end{tabular}\par}%
15654 \vskip 1em%
15655 {\large \@date}%
15656 \end{center}%
15657 \par
15658 \vskip 1.5em}
15659 \fi
15660 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
15661 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15662 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
15663 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15664 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
15665 \renewcommand\theequation{%
15666 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
15667 \renewcommand\thefigure{%
15668 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}

```



```

15669 \renewcommand\thetable{%
15670   \ifnum \c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}

```

88 File fancybox-xetex-bidi.def

```

15671 \ProvidesFile{fancybox-xetex-bidi.def}[2013/05/01 v0.1 bidi adaptations for fancybox package]
15672 \def\fancy@oval#1#2#3{%
15673   \boxmaxdepth \maxdimen
15674   \@ovttrue \ovbtrue \ovltrue \ovrtrue
15675   \@tfor\@tempa :=#3\do{\csname @ov\@tempa false\endcsname}%
15676   \@ovxx#1\relax
15677   \advance\@ovxx-\@wholewidth
15678   \@ovyy#2\relax
15679   \advance\@ovyy-\@wholewidth
15680   \@tempdimb \ifdim \@ovyy >\@ovxx \@ovxx \@ovxx\else \@ovyy \fi
15681   \advance\@tempdimb-2\p@
15682   \ifdim\@tempdimb>\the@cornersize\relax
15683     \@tempdimb=\the@cornersize
15684   \fi
15685   \@getcirc\@tempdimb
15686   \@ovro\ht\@tempboxa \ovri\dp\@tempboxa
15687   \@ovdx\@ovxx \advance\@ovdx-\@tempdima \divide\@ovdx \tw@
15688   \@ovdy\@ovyy \advance\@ovdy-\@tempdima \divide\@ovdy \tw@
15689   \@circlefnt
15690   \setbox\@tempboxa\hbox{\beginL%
15691     \if@ovr \ovvert32\kern -\@tempdima \fi
15692     \if@ovl \kern \@ovxx \ovvert01\kern -\@tempdima \kern -\@ovxx \fi
15693     \if@ovt \ovhorz \kern -\@ovxx \fi
15694     \if@ovb \raise \@ovyy \ovhorz \fi\endL}%
15695   \advance\@ovdx\@ovro
15696   \advance\@ovdy\@ovro
15697   \advance\@ovxx\@wholewidth
15698   \wd\@tempboxa=\@ovxx
15699   \dp\@tempboxa=\z@}

```

89 File fancyhdr-xetex-bidi.def

```

15700 \ProvidesFile{fancyhdr-xetex-bidi.def}[2025/09/03 v1.0 bidi adaptations for fancyhdr package]
15701
15702 \let\f@nch@everypar\everypar
15703
15704 \def\f@nch@parbox@align@hl{\def\f@nch@align@h{\bidi@raggedright}}
15705 \def\f@nch@parbox@align@hr{\def\f@nch@align@h{\bidi@raggedleft}}
15706

```

90 File fix2col-xetex-bidi.def

```

15707 \ProvidesFile{fix2col-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for fix2col package]
15708 \def\RTL@outputdblcol{%
15709   \if@firstcolumn
15710     \global\@firstcolumnfalse
15711     \global\setbox\@leftcolumn\copy\@outputbox
15712     \splitmaxdepth\maxdimen
15713     \vbadness\maxdimen

```



```

15714 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
15715 \toks@\expandafter{\topmark}%
15716 \xdef\@firstcoltopmark{\the\toks@}%
15717 \toks@\expandafter{\splitfirstmark}%
15718 \xdef\@firstcolfirstmark{\the\toks@}%
15719 \ifx\@firstcolfirstmark\empty
15720 \global\let\@setmarks\relax
15721 \else
15722 \gdef\@setmarks{%
15723 \let\firstmark\@firstcolfirstmark
15724 \let\topmark\@firstcoltopmark}%
15725 \fi
15726 \else \global\@firstcolumntrue
15727 \setbox\@outputbox \vbox {\hbox to\textwidth {%
15728 \hskip \columnwidth
15729 \hfil \vrule width\columnseprule \hfil
15730 \hbox to\columnwidth {%
15731 \bidi@firstcolumn@status@write%
15732 \box\@leftcolumn \hss}%
15733 \hskip -\textwidth
15734 \hbox to\columnwidth{%
15735 \bidi@lastcolumn@status@write%
15736 \box\@outputbox \hss}%
15737 \hskip \columnsep
15738 \hskip \columnwidth }}%
15739 \@combinedblfloats \@setmarks \@outputpage
15740 \begingroup \@dblfloatplacement \@startdblcolumn
15741 \@whiles\if@fcolmade \fi
15742 {\@outputpage \@startdblcolumn }\endgroup
15743 \fi}
15744 \def\LTR@outputdblcol{%
15745 \if@firstcolumn
15746 \global\@firstcolumnfalse
15747 \global\setbox\@leftcolumn\copy\@outputbox
15748 \splitmaxdepth\maxdimen
15749 \vbadness\maxdimen
15750 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
15751 \toks@\expandafter{\topmark}%
15752 \xdef\@firstcoltopmark{\the\toks@}%
15753 \toks@\expandafter{\splitfirstmark}%
15754 \xdef\@firstcolfirstmark{\the\toks@}%
15755 \ifx\@firstcolfirstmark\empty
15756 \global\let\@setmarks\relax
15757 \else
15758 \gdef\@setmarks{%
15759 \let\firstmark\@firstcolfirstmark
15760 \let\topmark\@firstcoltopmark}%
15761 \fi
15762 \else
15763 \global\@firstcolumntrue
15764 \setbox\@outputbox\vbox{%
15765 \hb@xt@\textwidth{%
15766 \hb@xt@\columnwidth{%
15767 \bidi@firstcolumn@status@write%

```



```

15768      \box\@leftcolumn \hss}%
15769      \hfil
15770      \vrule \@width\columnseprule
15771      \hfil
15772      \hb@xt@\columnwidth{%
15773      \bidi@lastcolumn@status@write%
15774      \box\@outputbox \hss}}}%
15775 \@combinedblfloats
15776 \setmarks
15777 \outputpage
15778 \begingroup
15779 \@dblfloatplacement
15780 \startdblcolumn
15781 \@whiles\if@fcolmade \fi{\@outputpage\startdblcolumn}%
15782 \endgroup
15783 \fi}

```

91 File fleqn-xetex-bidi.def

```

15784 \ProvidesFile{fleqn-xetex-bidi.def}[2024/12/07 v0.2 bidi adaptations for fleqn tag for XeTeX]
15785 \DeclareRobustCommand\{\relax
15786     \ifmmode\@badmath
15787     \else
15788         \begin{trivlist}%
15789             \@beginparpenalty\predisplaypenalty
15790             \@endparpenalty\postdisplaypenalty
15791             \item[]\leavevmode
15792             \hb@xt@\linewidth\bgroup \beginL$\m@th\displaystyle %$
15793             \hskip\mathindent\bgroup
15794         \fi}
15795 \DeclareRobustCommand\}{\relax
15796     \ifmmode
15797         \egroup $\hfil$ $
15798     \endL\egroup
15799     \end{trivlist}%
15800     \else \@badmath
15801     \fi}
15802 \renewenvironment{equation}%
15803 {
15804     \@beginparpenalty\predisplaypenalty
15805     \@endparpenalty\postdisplaypenalty
15806     \refstepcounter{equation}%
15807     \trivlist \item[]\leavevmode
15808     \hb@xt@\linewidth\bgroup\beginL $\m@th$ $
15809     \displaystyle
15810     \hskip\mathindent}%
15811     {\$ \hfil $ $
15812     \displaywidth\linewidth\hbox{\@eqnnum}%
15813     \endL\egroup
15814     \endtrivlist}

```

92 File float-xetex-bidi.def

```

15814 \ProvidesFile{float-xetex-bidi.def}[2013/04/04 v0.2 bidi adaptations for float package for XeTeX]
15815 \renewcommand\floatc@plain[2]{\setbox\@tempboxa\hbox{\@fs@cfont #1:} #2}%

```



```

15816 \ifdim\wd\@tempboxa>\hsize {\@fs@cfont #1:} #2\par
15817 \else\hbox to\hsize{\ifRTL\beginR\fi\hfil\box\@tempboxa\hfil\ifRTL\endR\fi}\fi}
15818 \def\float@newx#1[#2]{\@ifundefined{c@#1}{\newcounter{#1}[#2]%
15819 \expandafter\edef\csname the#1\endcsname{%
15820 \expandafter\noexpand\csname
15821 the#2\endcsname\@SepMark\noexpand\arabic{#1}}}%
15822 {\PackageWarning{float}{Can't redefine counter variable for #1.}}}

```

93 File floatrow-xetex-bidi.def

```

15823 \ProvidesFile{floatrow-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for floatrow package]
15824 \RequirePackage{color}
15825 \renewcommand\flnew@within[1]{\@addtoreset{FB@capttype}{#1}%
15826 \expandafter\edef\csname theFB@capttype\endcsname{%
15827 \expandafter\noexpand\csname
15828 the#1\endcsname\@SepMark\noexpand\arabic{FB@capttype}}}

```

94 File flowfram-xetex-bidi.def

```

15829 \ProvidesFile{flowfram-xetex-bidi.def}[2025/01/03 v0.6 bidi adaptations for flowfram package]
15830 \def\@outputdblcol{%
15831 \@nxtcol=\c@thisframe
15832 \c@curpg=\c@page
15833 \@g@tnextcol{\@nxtcol}%
15834 \if@ff@nwp@ % next flow frame starts on new page
15835 \global\@firstcolumntrue
15836 \setcolbox\c@thisframe
15837 \if@specialpage
15838 \global\@specialpagefalse
15839 \nameuse{ps@\@specialstyle}\relax
15840 \fi
15841 \if@twoside
15842 \ifodd\count\z@
15843 \let\@thehead\@oddhead
15844 \let\@thefoot\@oddfoot
15845 \else
15846 \let\@thehead\@evenhead
15847 \let\@thefoot\@evenfoot
15848 \fi
15849 \else
15850 \let\@thehead\@oddhead
15851 \let\@thefoot\@oddfoot
15852 \fi
15853 \@beginindvi
15854 \@dynamictthehead\@dynamictthefoot
15855 \vbadness=\@M
15856 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
15857 \combinedblfloats
15858 \outputpage
15859 \advance\c@curpg by -\c@page\relax
15860 \whiledo{\c@curpg>0}{\advance\c@curpg by -1\relax
15861 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
15862 \outputpage}
15863 \begingroup

```




```

15864 \@dblfloatplacement
15865 \@startdblcolumn
15866 \@whilesw \if@fcolmade \fi
15867 {\@outputpage \@startdblcolumn }\endgroup
15868 \@resetst@tics
15869 \@resetdyn@mics
15870 \else % still on same page, save contents of box255
15871 \global\@firstcolumnfalse
15872 \setcolbox\c@thisframe
15873 \fi
15874 \global\c@thisframe=\@nxtcol
15875 \@setcol{\c@thisframe}\relax
15876 \global\@colht\vsiz
15877 }
15878 \def\@outputpage{%
15879 \begingroup
15880 \let\protect\noexpand
15881 \@resetactivechars
15882 \global\let\@if@newlist\if@newlist
15883 \global\@newlistfalse\@parboxrestore
15884 \global\let\@bidi@BeforeOutputPageShipOut\@firstofone
15885 \bidi@beforeoutputpageshipouthook
15886 \shipout\vbox{\set@typeset@protect
15887 \aftergroup
15888 \endgroup
15889 \aftergroup
15890 \set@typeset@protect
15891 \reset@font\normalsize
15892 \bidi@font\@outputpage
15893 \normalsfcodes
15894 \let\label\@gobble
15895 \let\index\@gobble
15896 \let\glossary\@gobble
15897 \baselineskip\z@skip
15898 \lineskip\z@skip
15899 \lineskiplimit\z@
15900 \vskip\topmargin\moveright\@themargin
15901 \vbox{%
15902 \global\let\@bidi@BeforeHeader\@firstofone
15903 \bidi@beforeheaderhook
15904 \vskip\headheight
15905 \vskip\headsep
15906 \global\let\@bidi@BeforeOutputBoxOutputPage\@firstofone
15907 \bidi@beforeoutputboxoutputpagehook
15908 \box\@outputbox
15909 \global\let\@bidi@AfterOutputBoxOutputPage\@firstofone
15910 \bidi@afteroutputboxoutputpagehook
15911 }}%
15912 \global\let\@bidi@AfterOutputPageShipOut\@firstofone
15913 \bidi@afteroutputpageshipouthook
15914 \global\let\if@newlist\@if@newlist
15915 \stepcounter{page}%
15916 \setcounter{displayedframe}{0}%
15917 \let\firstmark\botmark

```



```

15918 \global\let\bidid@AtEndOutputPage\@firstofone
15919 \bidid@atendoutputpagehook
15920 }
15921
15922
15923 \newcommand*\bidid@s@tfftextcol{\ifthenelse{\equal{\ff@txtcol}{}}{-}{%
15924 \expandafter\bidicolor\ff@txtcol}}
15925
15926 \newcommand{\bidid@ff@box}[3]{\@ffbackground{\vbox to#2
15927 {\hb@xt@ #1{\hss{\bidid@s@tfftextcol #3}\hss}\vss\kern\z@}}}}
15928
15929
15930 \renewcommand*\@docolbox}[1]{%
15931 \edef\ff@frametype{%
15932 \csname @ff@frametype@\romannumeral#1\endcsname}%
15933 \edef\ff@col{\csname @ff@col@\romannumeral#1\endcsname}%
15934 \edef\ff@txtcol{\csname @ff@txtcol@\romannumeral#1\endcsname}%
15935 \edef\ff@backcol{\csname @ff@backcol@\romannumeral#1\endcsname}%
15936 \@ff@setoffset{#1}%
15937 \rotateframe{\csname @ff@angle@\romannumeral#1\endcsname}{%
15938 \ifthenelse{\boolean{columnframe\romannumeral#1}}{-}{%
15939 \@ff@fbox{\csname colwidth\romannumeral#1\endcsname}%
15940 {\csname colheight\romannumeral#1\endcsname}{%
15941 \expandafter\box\csname column\romannumeral#1\endcsname}{%
15942 \csname\ff@frametype\endcsname}%
15943 }{%
15944 \bidid@ff@box{\csname colwidth\romannumeral#1\endcsname}%
15945 {\csname colheight\romannumeral#1\endcsname}{%
15946 \expandafter\box\csname column\romannumeral#1\endcsname}%
15947 }}}
15948 \IfClassLoadedT{book}{%
15949 \renewcommand\theequation
15950 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
15951 \renewcommand \thefigure
15952 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
15953 \renewcommand \thetable
15954 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
15955 \renewcommand \thechapter {\@arabic\c@chapter}
15956 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
15957 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15958 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
15959 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15960 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
15961 \IfClassLoadedT{report}{%
15962 \renewcommand\theequation
15963 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
15964 \renewcommand \thefigure
15965 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
15966 \renewcommand \thetable
15967 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
15968 \renewcommand \thechapter {\@arabic\c@chapter}
15969 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
15970 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15971 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}

```



```

15972 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15973 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}
15974 \renewcommand{\rotateframe}[2]{\if@ttb@rotate
15975 \rotatebox{#1}{\if@RTL\beginL\fi#2\if@RTL\endL\fi}}%
15976 \else
15977 #2\relax
15978 \fi}

```

95 File footnote-xetex-bidi.def

```

15979 \ProvidesFile{footnote-xetex-bidi.def}[2024/12/14 v1.3 bidi footnote macros for XeTeX engine]
15980 \if@RTLMain\@RTL@footnotetrue\else\@RTL@footnotefalse\fi
15981 \newif\ifbidi@autofootnoterule
15982 \def\bidi@mpfootnoterule{\footnoterule}
15983 \newcounter{footdir@label}
15984 \renewcommand*{\thefootdir@label}{footdir@the\value{footdir@label}}
15985 \newcommand*{\footdir@write}{%
15986 \stepcounter{footdir@label}%
15987 \zref@labelbyprops{\thefootdir@label}{abspage}%
15988 }
15989 \newcommand*{\debugfootnotedirection}{\footdir@debugtrue}
15990 \newtoks\footdir@toks
15991 \newcommand*{\footdir@debug}[1]{%
15992 \iffootdir@debug
15993 \typeout{[footdir] #1}%
15994 \fi
15995 }
15996 %\@ifpackagelater{zref-abspage}{2012/10/27}{%
15997 \newcommand*{\footdir@LeftRightElse}{%
15998 \ltx@ifundefined{footdir@the\value{zabspage}}{%
15999 \footdir@debug{abspage \the\value{zabspage}: else}%
16000 \ltx@thirdofthree
16001 }{%
16002 \if\csname footdir@the\value{zabspage}\endcsname L%
16003 \footdir@debug{abspage \the\value{zabspage}: left}%
16004 \expandafter\ltx@firstofthree
16005 \else
16006 \footdir@debug{abspage \the\value{zabspage}: right}%
16007 \expandafter\ltx@secondofthree
16008 \fi
16009 }%
16010 }%
16011 %}%
16012 \providecommand*\c@zabspage{\c@abspage}%
16013 \newcommand*{\footdir@LeftRightElse}{%
16014 \footdir@write
16015 \zifrefundefined{\thefootdir@label}{%
16016 \footdir@debug{abspage ??: else}%
16017 \ltx@thirdofthree
16018 }{%
16019 \edef\footdir@abspage{%
16020 \zref@extractdefault{\thefootdir@label}{abspage}{0}%
16021 }%
16022 \ltx@ifundefined{footdir@\footdir@abspage}{%

```



```

16023     \footdir@debug{\footdir@abspage: else}%
16024     \ltx@thirdofthree
16025   }{%
16026     \if\csname footdir@\footdir@abspage\endcsname L%
16027       \footdir@debug{\footdir@abspage: left}%
16028       \expandafter\ltx@firstofthree
16029     \else
16030       \footdir@debug{\footdir@abspage: right}%
16031       \expandafter\ltx@secondofthree
16032     \fi
16033   }%
16034 }%
16035 }%
16036 %}
16037 \newcommand*{\footdir@fntext}[1]{%
16038   \zifrefundefined{\thefootdir@label}{%
16039     }{%
16040       \edef\footdir@name{%
16041         footdir@\zref@extractdefault{\thefootdir@label}{abspage}{0}%
16042       }%
16043       \@ifundefined{\footdir@name}{%
16044         \expandafter\gdef\csname\footdir@name\endcsname{#1}%
16045       }{%
16046       }%
16047     }
16048   }
16049 \newcommand*{\footdir@temp}[3]{%
16050   \@ifdefinable{#1}{%
16051     \let#1#2%
16052     \renewcommand{#2}[1]{%
16053       \footdir@write
16054       \footdir@fntext{#3}%
16055       \stepcounter{footdir@label}%
16056       \footdir@fntext{#3}%
16057       \footdir@toks{##1}%
16058       \footdir@toks\expandafter{%
16059         \the\expandafter\footdir@toks
16060         \expandafter
16061         \zref@labelbyprops\expandafter{\thefootdir@label}{abspage}%
16062       }%
16063       \expandafter#1\expandafter{\the\footdir@toks}%
16064     }%
16065   }%
16066 }
16067
16068 \def\right@footnoterule{%
16069   \kern-3\p@
16070   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
16071   \kern2.6\p@}
16072 \def\left@footnoterule{\kern-3\p@
16073   \hrule \@width .4\columnwidth \kern 2.6\p@}
16074 \def\textwidth@footnoterule{\kern-3\p@
16075   \hrule \@width \columnwidth \kern 2.6\p@}
16076 \def\leftfootnoterule{%

```



```

16077 \bidi@autofootnoterulefalse%
16078 \def\footnoterule{\left@footnoterule}}
16079 \let\LRfootnoterule=\leftfootnoterule
16080 \def\rightfootnoterule{%
16081 \bidi@autofootnoterulefalse%
16082 \def\footnoterule{\right@footnoterule}}
16083 \def\textwidthfootnoterule{%
16084 \bidi@autofootnoterulefalse%
16085 \def\footnoterule{\textwidth@footnoterule}}
16086
16087
16088
16089 \def\auto@footnoterule{%
16090 \footdir@LeftRightElse%
16091 \left@footnoterule%
16092 \right@footnoterule%
16093 \left@footnoterule%
16094 }
16095
16096
16097
16098 \def\autofootnoterule{%
16099 \bidi@autofootnoteruletrue%
16100 \def\footnoterule{\auto@footnoterule}%
16101 }
16102
16103 \newcommand*\SplitFootnoteRule{%
16104   \gdef\split@prev{0}
16105   \let\pagefootnoterule\footnoterule
16106   \let\mpfootnoterule\footnoterule
16107   \def\splitfootnoterule{\kern-3p@ \hrule \kern2.6p@}
16108   \def\footnoterule{\relax
16109     \ifx \@listdepth\@mplistdepth
16110       \mpfootnoterule
16111     \else
16112       \ifnum\split@prev=\z@
16113         \pagefootnoterule
16114       \else
16115         \splitfootnoterule
16116       \fi
16117       \xdef\split@prev{\the\insertpenalties}%
16118     \fi
16119   }%
16120 }
16121
16122
16123
16124
16125 \def\RTLfootnote{\@ifnextchar[\@xRTLfootnote{\stepcounter\@mpfn
16126   \protected@xdef\@thefnmark{\thempfn}}%
16127   \@footnotemark\RTLfootnotetext}}
16128 \def\@xRTLfootnote[#1]{%
16129   \begingroup
16130   \csname c@\@mpfn\endcsname #1\relax

```



```

16131 \unrestored@protected@xdef\@thefnmark{\thempfn}%
16132 \endgroup
16133 \@footnotemark\@RTLfootnotetext}
16134 \def\LTRfootnote{\@ifnextchar[\@xLTRfootnote{\stepcounter\@mpfn
16135 \protected@xdef\@thefnmark{\thempfn}%
16136 \@footnotemark\@LTRfootnotetext}}
16137 \def\@xLTRfootnote[#1]{%
16138 \begingroup
16139 \csname c@\@mpfn\endcsname #1\relax
16140 \unrestored@protected@xdef\@thefnmark{\thempfn}%
16141 \endgroup
16142 \@footnotemark\@LTRfootnotetext}
16143
16144
16145 \def\setfootnoteRL{\@RTL@footnotetrue}
16146 \def\unsetfootnoteRL{\@RTL@footnotefalse}
16147 \def\setfootnoteLR{\unsetfootnoteRL}
16148
16149 \newcommand*{\bidi@footnotetext@font}{\footnotesize}
16150 \newcommand*{\bidi@LTRfootnotetext@font}{\footnotesize}
16151 \newcommand*{\bidi@RTLfootnotetext@font}{\footnotesize}
16152
16153 \long\def\@footnotetext#1{\insert\footins{%
16154 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
16155 \reset@font%
16156 \bidi@footnotetext@font% \reset@font\footnotesize
16157 \interlinepenalty\interfootnotelinepenalty
16158 \splittopskip\footnotesep
16159 \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
16160 \hsize\columnwidth \@parboxrestore
16161 \protected@edef\@currentlabel{%
16162 \csname p@footnote\endcsname\@thefnmark
16163 }%
16164 \color@begingroup
16165 \@makefnintext{%
16166 \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16167 \color@endgroup}}%
16168
16169
16170 \long\def\@RTLfootnotetext#1{\insert\footins{%
16171 \@RTLtrue%
16172 \reset@font%
16173 \bidi@RTLfootnotetext@font% \reset@font\footnotesize
16174 \interlinepenalty\interfootnotelinepenalty
16175 \splittopskip\footnotesep
16176 \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
16177 \hsize\columnwidth \@parboxrestore
16178 \protected@edef\@currentlabel{%
16179 \csname p@footnote\endcsname\@thefnmark
16180 }%
16181 \color@begingroup
16182 \@makefnintext{%
16183 \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16184 \color@endgroup}}%

```



```

16185
16186 \long\def\@LTRfootnotetext#1{\insert\footins{%
16187   \@RTLfalse%
16188   \reset@font%
16189   \bidi@LTRfootnotetext@font% \reset@font\footnotesize
16190   \interlinepenalty\interfootnotelinepenalty
16191   \splittopskip\footnotesep
16192   \splitmaxdepth \dp\strutbox \floatingpenalty \MM
16193   \hsize\columnwidth \@parboxrestore
16194   \protected@edef\@currentlabel{%
16195     \csname p@footnote\endcsname\@thefnmark
16196   }%
16197   \color@begingroup
16198     \makefntext{%
16199       \rule\z@{footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16200     \color@endgroup}}%
16201
16202 \AtBeginDocument{%
16203 \if@RTL@footnote
16204   \newcommand*{\bidi@footdir@footnote}{R}
16205 \else
16206   \newcommand*{\bidi@footdir@footnote}{L}
16207 \fi%
16208 }
16209
16210 \footdir@temp\footdir@ORG@bidi@footnotetext\@footnotetext{\bidi@footdir@footnote}%
16211 \footdir@temp\footdir@ORG@bidi@RTLfootnotetext\@RTLfootnotetext{R}%
16212 \footdir@temp\footdir@ORG@bidi@LTRfootnotetext\@LTRfootnotetext{L}%
16213
16214 \long\def\@mpRTLfootnotetext#1{%
16215   \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@foot
16216   \global\setbox\@mpfootins\vbox{%
16217     \unvbox\@mpfootins
16218     \@RTLtrue
16219     \reset@font%
16220     \bidi@RTLfootnotetext@font% \reset@font\footnotesize
16221     \hsize\columnwidth
16222     \@parboxrestore
16223     \protected@edef\@currentlabel
16224       {\csname p@mpfootnote\endcsname\@thefnmark}%
16225     \color@begingroup
16226       \makefntext{%
16227         \rule\z@{footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16228       \color@endgroup}}
16229 \long\def\@mpLTRfootnotetext#1{%
16230   \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footno
16231   \global\setbox\@mpfootins\vbox{%
16232     \unvbox\@mpfootins
16233     \@RTLfalse
16234     \reset@font%
16235     \bidi@LTRfootnotetext@font% \reset@font\footnotesize
16236     \hsize\columnwidth
16237     \@parboxrestore
16238     \protected@edef\@currentlabel

```



```

16239         {\csname p@mpfootnote\endcsname\@thefnmark}%
16240     \color@begingroup
16241         \@makefntext{%
16242             \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16243         \color@endgroup}}
16244 \long\def\@mpfootnotetext#1{%
16245 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\ifRTL@footnote\global\let\bidi@mpfootnote
16246 \global\setbox\@mpfootins\vbox{%
16247     \unvbox\@mpfootins
16248     \ifRTL@footnote\RTLtrue\else\RTLfalse\fi
16249     \reset@font%
16250     \bidi@footnotetext@font% \reset@font\footnotesize
16251     \hsize\columnwidth
16252     \@parboxrestore
16253     \protected@edef\@currentlabel
16254         {\csname p@mpfootnote\endcsname\@thefnmark}%
16255     \color@begingroup
16256         \@makefntext{%
16257             \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16258         \color@endgroup}}
16259 \def\@iiminipage#1#2[#3]#4{%
16260     \leavevmode
16261     \@pboxswfalse
16262     \ifhboxRconstruct\@bidi@list@minipage@parbox@not@nobtrue\fi
16263     \ifRTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\fi
16264     \setlength\@tempdima{#4}%
16265     \def\@mpargs{{#1}{#2}[#3]{#4}}%
16266     \setbox\@tempboxa\vbox\bgroup
16267         \color@begingroup
16268             \hsize\@tempdima
16269             \textwidth\hsize \columnwidth\hsize
16270             \@parboxrestore
16271             \def\@mpfn{mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
16272             \let\@footnotetext\@mpfootnotetext
16273             \let\@LTRfootnotetext\@mpLTRfootnotetext
16274             \let\@RTLfootnotetext\@mpRTLfootnotetext
16275             \let\@listdepth\@mplistdepth \@mplistdepth\z@
16276             \@minipagerestore
16277             \@setminipage}
16278 \def\endminipage{%
16279     \par
16280     \unskip
16281     \ifvoid\@mpfootins\else
16282         \vskip\skip\@mpfootins
16283         \normalcolor
16284         \bidi@mpfootnoterule
16285         \unvbox\@mpfootins
16286     \fi
16287     \@minipagefalse    %% added 24 May 89
16288 \color@endgroup
16289 \egroup
16290 \expandafter\@iiparbox\@mpargs{\unvbox\@tempboxa}}
16291 \def\LTRthanks#1{\footnotemark
16292     \protected@xdef\@thanks{\@thanks

```




```

16293         \protect\LTRfootnotetext[\the\c@footnote]{#1}}%
16294 }
16295 \def\LTRfootnotetext{%
16296     \@ifnextchar [\@xLTRfootnotenext
16297         {\protected@xdef\@thefnmark{\thempfn}%
16298         \@LTRfootnotetext}}
16299 \def\@xLTRfootnotenext[#1]{%
16300     \begingroup
16301         \csname c@\@mpfn\endcsname #1\relax
16302         \unrestored@protected@xdef\@thefnmark{\thempfn}%
16303     \endgroup
16304     \@LTRfootnotetext}
16305 \def\RTLthanks#1{\footnotemark
16306     \protected@xdef\@thanks{\@thanks
16307         \protect\RTLfootnotetext[\the\c@footnote]{#1}}%
16308 }
16309 \let\@thanks\@empty
16310 \def\RTLfootnotetext{%
16311     \@ifnextchar [\@xRTLfootnotenext
16312         {\protected@xdef\@thefnmark{\thempfn}%
16313         \@RTLfootnotetext}}
16314 \def\@xRTLfootnotenext[#1]{%
16315     \begingroup
16316         \csname c@\@mpfn\endcsname #1\relax
16317         \unrestored@protected@xdef\@thefnmark{\thempfn}%
16318     \endgroup
16319     \@RTLfootnotetext}
16320 \leftfootnoterule

```

96 File footnotebackref-xetex-bidi.def

```

16321 \ProvidesFile{footnotebackref-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for footnoteb
16322 \LetLtxMacro{\BHFN@OldLTRFootnote}{\LTRfootnote}
16323 \LetLtxMacro{\BHFN@OldRTLFootnote}{\RTLfootnote}
16324
16325 \renewcommand*\LTRfootnote{%
16326     \refstepcounter{BackrefHyperFootnoteCounter}%
16327     \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
16328     \label{\BackrefFootnoteTag}%
16329     \@ifnextchar [\Backref@OptLTRHyperFootnote\Backref@HyperLTRFootnote}
16330
16331 \renewcommand*\RTLfootnote{%
16332     \refstepcounter{BackrefHyperFootnoteCounter}%
16333     \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
16334     \label{\BackrefFootnoteTag}%
16335     \@ifnextchar [\Backref@OptRTLHyperFootnote\Backref@HyperRTLFootnote}
16336 \newcommand\Backref@HyperLTRFootnote[1]{%
16337     \BHFN@OldLTRFootnote{\Backref@HyperSymbol#1}}
16338
16339 \newcommand\Backref@HyperRTLFootnote[1]{%
16340     \BHFN@OldRTLFootnote{\Backref@HyperSymbol#1}}
16341
16342 \newcommand\Backref@OptHyperLTRFootnote[2][empty]{%
16343     \BHFN@OldLTRFootnote[#1]{\Backref@HyperSymbol#2}}

```



```

16344
16345 \newcommand\Backref@OptHyperRTLFootnote[2][\empty]{%
16346     \BHFN@OldRTLFootnote[#1]{\Backref@HyperSymbol#2}}
16347
16348 \bidi@AfterFile{extrafootnotefeatures-xetex-bidi.def}{%
16349 \ifFootnoteBackref@numberlinked
16350 \renewcommand{\footfootmark}{%
16351     \ifdim\footmarkwidth < \z@
16352         \llap{\hb@xt@ -\footmarkwidth{%
16353             \hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16354             \hspace*{-\footmarkwidth}}}%
16355     \else
16356         \ifdim\footmarkwidth = \z@
16357             {\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16358         \else
16359             \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}
16360         \fi
16361     \fi}
16362 \renewcommand{\LTRfootfootmark}{%
16363     \ifdim\footmarkwidth < \z@
16364         \llap{\hb@xt@ -\footmarkwidth{%
16365             \hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16366             \hspace*{-\footmarkwidth}}}%
16367     \else
16368         \ifdim\footmarkwidth = \z@
16369             {\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16370         \else
16371             \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}
16372         \fi
16373     \fi}
16374 \renewcommand{\RTLfootfootmark}{%
16375     \ifdim\footmarkwidth < \z@
16376         \llap{\hb@xt@ -\footmarkwidth{%
16377             \hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16378             \hspace*{-\footmarkwidth}}}%
16379     \else
16380         \ifdim\footmarkwidth = \z@
16381             {\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16382         \else
16383             \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}
16384         \fi
16385     \fi}
16386 \fi
16387 }

```

97 File framed-xetex-bidi.def

```

16388 \ProvidesFile{framed-xetex-bidi.def}[2012/06/05 v0.3 bidi adaptations for framed package for
16389 \renewcommand\TitleBarFrame[3][\begingroup
16390     \ifx\delimiter#1\delimiter
16391         \let\TF@conlab\@empty
16392     \else
16393         \def\TF@conlab{% continuation label
16394         \nointerlineskip

```



```

16395 \smash{\rlap{\kern\wd\@tempboxa\kern\fbboxrule\kern\fbboxsep #1}}}%
16396 \fi
16397 %\let\TF@savecolor\current@color
16398 \textcolor{TFFrameColor}{%
16399 \CustomFBox
16400 {\TF@Title{#2}}{\TF@conlab}}%
16401 \fbboxrule\fbboxrule\fbboxrule\fbboxrule
16402 %{\let\current@color\TF@savecolor\set@color #3}%
16403 {\normalcolor #3}%
16404 }\endgroup
16405 }
16406 \renewenvironment{titled-frame}[1]{%
16407 \def\FrameCommand{\fbboxsep8pt\fbboxrule2pt
16408 \TitleBarFrame{\textbf{#1}}}%
16409 \def\FirstFrameCommand{\fbboxsep8pt\fbboxrule2pt
16410 \TitleBarFrame[{\if@RTL\blacktriangleleft\else\blacktriangleright\fi$]{\textbf{#1}}}%
16411 \def\MidFrameCommand{\fbboxsep8pt\fbboxrule2pt
16412 \TitleBarFrame[{\if@RTL\blacktriangleleft\else\blacktriangleright\fi$]{\textbf{#1\ (con
16413 \def\LastFrameCommand{\fbboxsep8pt\fbboxrule2pt
16414 \TitleBarFrame{\textbf{#1\ (cont)}}}%
16415 \MakeFramed{\advance\hsize-20pt \FrameRestore}}%
16416 % note: 8 + 2 + 8 + 2 = 20. Don't use \width because the frame title
16417 % could interfere with the width measurement.
16418 {\endMakeFramed}
16419 \chardef\FrameRestore=\catcode`\| % for debug
16420 \catcode`\|=\catcode`\% % (debug: insert space after backslash)
16421 \def\fb@put@frame#1#2{\relax
16422 \ifdim\pagegoal=\maxdimen \pagegoal\vsize \fi
16423 | \message{===== Entering putframe =====^^J
16424 | \pagegoal=\the\pagegoal, \pagetotal=\the\pagetotal.}%
16425 \ifinner
16426 \fb@putboxa#1%
16427 \fb@afterframe
16428 \else
16429 \dimen@ \pagegoal \advance\dimen@-\pagetotal % natural space left on page
16430 \ifdim\dimen@<2\baselineskip % Too little room on page
16431 | \message{Page has only \the\dimen@\space room left; eject.}%
16432 \eject \fb@adjheight \fb@put@frame#1#2%
16433 \else % there's appreciable room left on the page
16434 \fb@sizeofframe#1%
16435 | \message{\string\pagetotal=\the\pagetotal,
16436 | \string\pagegoal=\the\pagegoal,
16437 | \string\pagestretch=\the\pagestretch,
16438 | \string\pageshrink=\the\pageshrink,
16439 | \string\fb@frh=\the\fb@frh. \space}
16440 | \message{^^JBox of size \the\ht\@tempboxa\space}%
16441 \begingroup % temporarily set \dimen@ to be...
16442 \advance\dimen@.8\pageshrink % maximum space available on page
16443 \advance\dimen@-\fb@frh\relax % max space available for frame's contents
16444 %%% LOOKS SUBTRACTED AND ADDED, SO DOUBLE ACCOUNTING!
16445 \expandafter\endgroup
16446 % expand \ifdim, then restore \dimen@ to real room left on page
16447 \ifdim\dimen@>\ht\@tempboxa % whole box does fit
16448 | \message{fits in \the\dimen@.}%

```



```

16449      % ToDo: Change this to use vsplit anyway to capture the marks
16450      % MERGE THIS WITH THE else CLAUSE!!!
16451      \fb@putboxa#1%
16452      \fb@afterframe
16453      \else % box must be split
16454      \message{must be split to fit in \the\dimen@.}%
16455      % update frame measurement to use \FirstFrameCommand or \MidFrameCommand
16456      \fb@sizeofframe#2%
16457      \setbox\@tempboxa\vbox{% simulate frame and flexibility of the page:
16458      \vskip \fb@frh \@plus\pagestretch \@minus.8\pageshrink
16459      \kern137sp\kern-137sp\penalty-30
16460      \unvbox\@tempboxa}%
16461      \edef\fb@resto@set{\boxmaxdepth\the\boxmaxdepth
16462      \splittopskip\the\splittopskip}%
16463      \boxmaxdepth\z@ \splittopskip\z@
16464      \message{^^J Padded box of size \the\ht\@tempboxa\space split to \the\dimen@}%
16465      % Split box here
16466      \setbox\tw@\vsplit\@tempboxa to\dimen@
16467      \toks99\expandafter{\splitfirstmark}%
16468      \toks98\expandafter{\splitbotmark}%
16469      \message{Marks are: \the\toks99, \the\toks98.}%
16470      \setbox\tw@\vbox{\unvbox\tw@}% natural-sized
16471      \message{Natural height of split box is \the\ht\tw@, leaving
16472      \the\ht\@tempboxa\space remainder.}%
16473      % If the split-to size > (\vsize-\topskip), then set box to full size.
16474      \begingroup
16475      \advance\dimen@\topskip
16476      \expandafter\endgroup
16477      \ifdim\dimen@>\pagegoal
16478      \message{Frame is big -- Use up the full column.}%
16479      \dimen@ii\pagegoal
16480      \advance\dimen@ii -\topskip
16481      \advance\dimen@ii \FrameHeightAdjust\relax
16482      \else % suspect this is implemented incorrectly:
16483      % If the split-to size > feasible room_on_page, rebox it smaller.
16484      \advance\dimen@.8\pageshrink
16485      \ifdim\ht\tw@>\dimen@
16486      \message{Box too tall; rebox it to \the\dimen@.}%
16487      \dimen@ii\dimen@
16488      \else % use natural size
16489      \dimen@ii\ht\tw@
16490      \fi
16491      \fi
16492      % Re-box contents to desired size \dimen@ii
16493      \advance\dimen@ii -\fb@frh
16494      \setbox\tw@\vbox to\dimen@ii \bgroup
16495      % remove simulated frame and page flexibility:
16496      \vskip -\fb@frh \@plus-\pagestretch \@minus-.8\pageshrink
16497      \unvbox\tw@ \unpenalty\unpenalty
16498      \ifdim\lastkern=-137sp % whole box went to next page
16499      \message{box split at beginning!}%
16500      % need work here???
16501      \egroup \fb@resto@set \eject % (\vskip for frame size was discarded)
16502      \fb@adjheight

```



```

16503         \fb@put@frame#1#2% INSERTED ???
16504     \else % Got material split off at the head
16505         \egroup \fb@resto@set
16506         \ifvoid\@tempboxa % it all fit after all
16507 |         \message{box split at end! }%
16508         \setbox\@tempboxa\box\tw@
16509         \fb@putboxa#1%
16510         \fb@afterframe
16511     \else % it really did split
16512 |         \message{box split as expected. Its reboxed height is \the\ht\tw@. }%
16513         \ifdim\wd\tw@>\z@
16514             \wd\tw@\wd\@tempboxa
16515             \centerline{#2{\hboxL{\box\tw@}}}% ??? \centerline bad idea
16516         \else
16517 |         \message{Zero width means likely blank. Don't frame it (guess)}%
16518             \box\tw@
16519         \fi
16520         \hrule \@height\z@ \@width\hsize
16521         \eject
16522         \fb@adjheight
16523         \fb@put@frame\LastFrameCommand\MidFrameCommand
16524     \fi\fi\fi\fi\fi
16525 }
16526 \def\fb@putboxa#1{%
16527     \ifvoid\@tempboxa
16528         \PackageWarning{framed}{Boxa is void -- discard it. }%
16529     \else
16530 |         \message{Frame and place boxa. }%
16531 |         %{\showoutput\showbox\@tempboxa}%
16532         \centerline{#1{\hboxL{\box\@tempboxa}}}%
16533     \fi
16534 }
16535 \catcode`\|=\FrameRestore
16536 \def\FrameRestore{%
16537     \let\if@nobreak\iffalse
16538     \let\if@noskipsec\iffalse
16539     \let\-\@dischph
16540     \let'\@acci\let\` \@accii\let\=\@acciii
16541     % \message{FrameRestore:
16542     %     \@totalleftmargin=\the \@totalleftmargin,
16543     %     \rightmargin=\the\rightmargin,
16544     %     \@listdepth=\the\@listdepth. }%
16545     % Test if we are in a list (or list-like paragraph)
16546     \ifnum \ifdim\@totalleftmargin>\z@ 1\fi
16547         \ifdim\rightmargin>\z@ 1\fi
16548         \ifnum\@listdepth>\z@ 1\fi 0>\z@
16549     %     \message{In a list: \linewidth=\the\linewidth, \@totalleftmargin=\the\@totalleftm
16550     %         \parshape=\the\parshape, \columnwidth=\the\columnwidth, \hsize=\the\hsize,
16551     %         \labelwidth=\the\labelwidth. }%
16552     \@setminipage % snug fit around the item
16553     % Now try to propagate changes of width from \hsize to list parameters.
16554     % This is deficient, but a more advanced way to indicate modification to text
16555     % dimensions is not (yet) provided; in particular, no separate left/right
16556     % adjustment.

```



```

16557     \advance\linewidth-\columnwidth \advance\linewidth\hsize
16558     \parshape\@ne \@totalleftmargin \linewidth
16559     \else % Not in list
16560         \linewidth=\hsize
16561         %\message{No list, set \string\linewidth=\the\hsize. }%
16562     \fi
16563     \sloppy
16564 }

```

98 File ftnright-xetex-bidi.def

```

16565 \ProvidesFile{ftnright-xetex-bidi.def}[2018/09/29 v0.6 bidi adaptations for ftnright package]
16566
16567 \def\prepare@bidi@copyins{%
16568     \global\bidi@rcol@copyinsskip\skip\@bidi@copyins@
16569     \global\skip\@bidi@copyins@\z@
16570     \global\count\@bidi@copyins@\z@
16571     \global\dimen\@bidi@copyins@\textheight}
16572
16573 \newskip\bidi@rcol@copyinsskip
16574
16575 \def\LTR@outputdblcol{%
16576     \if@firstcolumn
16577         \global\@firstcolumnfalse
16578         \global\setbox\@leftcolumn\copy\@outputbox
16579         \global\count\footins\@m
16580         \global\skip\footins\rcol@footinsskip
16581         \global\count\@bidi@copyins@\@m
16582         \global\skip\@bidi@copyins@\bidi@rcol@copyinsskip
16583         \splitmaxdepth\maxdimen
16584         \vbadness\maxdimen
16585         \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
16586         \setbox\@outputbox\vsplit\@outputbox to\maxdimen
16587         \toks@\expandafter{\topmark}%
16588         \xdef\@firstcoltopmark{\the\toks@}%
16589         \toks@\expandafter{\splitfirstmark}%
16590         \xdef\@firstcolfirstmark{\the\toks@}%
16591         \ifx\@firstcolfirstmark\@empty
16592             \global\let\@setmarks\relax
16593         \else
16594             \gdef\@setmarks{%
16595                 \let\firstmark\@firstcolfirstmark
16596                 \let\topmark\@firstcoltopmark}%
16597         \fi
16598     \else
16599         \preparefootins
16600         \prepare@bidi@copyins
16601         \global\@firstcolumntrue
16602         \setbox\@outputbox\vbox{%
16603             \hb@xt@\textwidth{%
16604                 \hb@xt@\columnwidth{%
16605                     \bidi@firstcolumn@status@write%
16606                     \box\@leftcolumn \hss}%
16607             \hfil

```



```

16608      {\normalcolor\vrule \@width\columnseprule}%
16609      \hfil
16610      \hb@xt@\columnwidth{%
16611      \bidi@lastcolumn@status@write%
16612      \box\@outputbox \hss}}}%
16613 \@@combinedblfloats
16614 \@@setmarks
16615 \@@outputpage
16616 \begin@group
16617 \@@dblfloatplacement
16618 \@@startdblcolumn
16619 \@@whilesw@if@fcolmade \fi{\@@outputpage
16620 \@@startdblcolumn}%
16621 \end@group
16622 \fi}%
16623
16624 \def\RTL@outputdblcol{%
16625 \if@firstcolumn
16626 \global\@firstcolumnfalse
16627 \global\setbox\@leftcolumn\copy\@outputbox
16628 \global\count\footins\@m
16629 \global\skip\footins\rcol@footinsskip
16630 \global\count\@bidi@copyins@\@m
16631 \global\skip\@bidi@copyins@\bidi@rcol@copyinsskip
16632 \splitmaxdepth\maxdimen
16633 \vbadness\maxdimen
16634 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
16635 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
16636 \toks@\expandafter{\topmark}%
16637 \xdef\@firstcoltopmark{\the\toks@}%
16638 \toks@\expandafter{\splitfirstmark}%
16639 \xdef\@firstcolfirstmark{\the\toks@}%
16640 \ifx\@firstcolfirstmark\@empty
16641 \global\let\@setmarks\relax
16642 \else
16643 \gdef\@setmarks{%
16644 \let\firstmark\@firstcolfirstmark
16645 \let\topmark\@firstcoltopmark}%
16646 \fi
16647 \else
16648 \preparefootins
16649 \prepare@bidi@copyins
16650 \global\@firstcolumntrue
16651 \setbox\@outputbox\vbox{%
16652 \hb@xt@\textwidth{%
16653 \hskip \columnwidth
16654 \hfil
16655 {\normalcolor\vrule \@width\columnseprule}%
16656 \hfil
16657 \hb@xt@\columnwidth{%
16658 \bidi@firstcolumn@status@write%
16659 \box\@leftcolumn \hss}%
16660 \hskip -\textwidth
16661 \hb@xt@\columnwidth{%

```



```

16662      \bidi@lastcolumn@status@write%
16663      \box\@outputbox \hss}%
16664      \hskip \columnsep
16665      \hskip \columnwidth }}%
16666 \@@combinedblfloats
16667 \@@setmarks
16668 \@@outputpage
16669 \begin@group
16670 \@@dblfloatplacement
16671 \@@startdblcolumn
16672 \@@whilesw\if@fcolmade \fi{\@@outputpage
16673 \@@startdblcolumn}%
16674 \end@group
16675 \fi}%
16676
16677 \def\@startcolumn{%
16678 \ifx\@deferlist\@empty
16679 \global\@fcolmadefalse
16680 \global\@colroom\@colht
16681 \else
16682 \ifvoid\footins\else
16683 \ftn@amount\ht\footins
16684 \advance\ftn@amount\dp\footins
16685 \advance\ftn@amount\skip\footins
16686 \fi
16687 \ifvoid\@bidi@copyins\else
16688 \bidi@copyins@amount\ht\@bidi@copyins@
16689 \advance\bidi@copyins@amount\dp\@bidi@copyins@
16690 \advance\bidi@copyins@amount\skip\@bidi@copyins@
16691 \fi
16692 \global\advance\@colht-\ftn@amount
16693 \global\advance\@colht-\bidi@copyins@amount
16694 \global\@colroom\@colht
16695 \xstartcol
16696 \global\advance\@colht\ftn@amount
16697 \global\advance\@colroom\ftn@amount
16698 \global\advance\@colht\bidi@copyins@amount
16699 \global\advance\@colroom\bidi@copyins@amount
16700 \fi
16701 \if@fcolmade
16702 \setbox\@cclv\box\@outputbox
16703 \makecol
16704 \else
16705 \ifvoid\footins\else
16706 \insert\footins{\unvbox\footins}\fi
16707 \ifvoid\@bidi@copyins\else
16708 \insert\@bidi@copyins{\unvbox\@bidi@copyins}\fi
16709 \fi}
16710
16711 \newdimen\bidi@copyins@amount
16712
16713 \def\@makecol{\if@firstcolumn
16714 \setbox\@outputbox\box\@cclv
16715 \if@twocolumn \else

```




```

16716 \ifvoid\footins \else
16717 \latexerr{ftnright package
16718     used in one-column mode}%
16719 {The ftnright package was designed to
16720 work with LaTeX's standard^^Jtwocolumn
16721 option. It does *not* work with the
16722 multicol package.^^JSo please specify
16723 `twocolumn' in the
16724 \noexpand\documentclass command.}%
16725 \shipout\box\footins \fi
16726 \ifvoid\@bidi@copyins@ \else
16727 \latexerr{ftnright package
16728     used in one-column mode}%
16729 {The ftnright package was designed to
16730 work with LaTeX's standard^^Jtwocolumn
16731 option. It does *not* work with the
16732 multicol package.^^JSo please specify
16733 `twocolumn' in the
16734 \noexpand\documentclass command.}%
16735 \shipout\box\@bidi@copyins@ \fi\fi
16736 \ifnum\insertpenalties>\z@
16737 \latexerr{ftnright package
16738     scrambled footnotes}%
16739 {There is too much footnote material in
16740 the first column and ftnright^^Jis
16741 unable to cope with this.^^JYou need
16742 to reduce the amount to get a properly
16743 formatted page.}%
16744 \fi
16745 \else
16746 \ifvoid\footins
16747 \ifvoid\@bidi@copyins@
16748 \setbox\@outputbox\box\@cclv
16749 \else
16750 \setbox\@outputbox\vbox
16751 {\ifvoid\@cclv \else
16752 \unvbox\@cclv
16753 \vskip \skip\@bidi@copyins@
16754 \fi
16755 \color@begingroup
16756 \normalcolor
16757 \unvbox \@bidi@copyins@
16758 \color@endgroup}%
16759 \fi
16760 \else
16761 \setbox\@outputbox\vbox
16762 {\ifvoid\@cclv \else
16763 \unvbox\@cclv
16764 \vskip\skip\footins\fi
16765 \color@begingroup
16766 \normalcolor
16767 \footnoterule\unvbox\footins
16768 \color@endgroup
16769 \ifvoid\@bidi@copyins@

```



```

16770         \else
16771         \vskip \skip\@bidi@copyins@
16772         \color@begingroup
16773         \normalcolor
16774         \unvbox \@bidi@copyins@
16775         \color@endgroup
16776     \fi
16777 }%
16778 \fi
16779 \fi
16780 \xdef\@freelist{\@freelist\@midlist}%
16781 \global \let \@midlist \@empty
16782 \@combinefloats
16783 \ifvbox\@kludgeins
16784     \@makespecialcolbox
16785 \else
16786     \setbox\@outputbox\vbox to\@colht
16787     {\boxmaxdepth\maxdepth
16788     \@texttop
16789     \@tempdima\dp\@outputbox
16790     \unvbox\@outputbox
16791     \vskip-\@tempdima
16792     \@textbottom}%
16793 \fi
16794 \global\maxdepth\@maxdepth}
16795
16796 \let\leftfootnoterule\@empty
16797 \let\rightfootnoterule\@empty
16798 \let\textwidthfootnoterule\@empty
16799 \let\autofootnoterule\@empty
16800 \let\footnoterule\@empty
16801 \long\def\@makefnmark#1{\parindent 1em
16802     \noindent\hbox to 2em{}}%
16803     \llap{\@thefnmark\hbox{.}\,\,\,}#1}
16804
16805 \setlength{\skip\@bidi@copyins@}
16806         {10pt plus 5pt minus 3pt}
16807 \AtBeginDocument{\prepare@bidi@copyins}

```

99 File graphicx-xetex-bidi.def

```

16808 \ProvidesFile{graphicx-xetex-bidi.def}[2017/06/17 v0.5 bidi adaptations for graphicx package]
16809 \def\Grot@box@std#1#2{\ifmmode\else\if@RTL\beginL\fi\fi%
16810     \Grot@setangle{#1}%
16811     \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#2\if@RTL\endR\fi\else\if@RTL\beginR\fi#2\if@RTL
16812     \Grot@x\z@
16813     \Grot@y\z@
16814     \Grot@box\ifmmode\else\if@RTL\endL\fi\fi}
16815 \long\def\Grot@box@kv[#1]#2#3{\ifmmode\else\if@RTL\beginL\fi\fi%
16816     \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\i
16817     \Grot@x\width \divide\Grot@x\tw@
16818     \Grot@y\height \advance\Grot@y-\depth \divide\Grot@y\tw@
16819     \setkeys{Grot}{#1}%
16820     \setbox\z@\box\@tempboxa

```



```

16821 \Grot@setangle{#2}%
16822 \Grot@box\ifmmode\else\if@RTL\endL\fi\fi
16823 \@end@tempboxa}
16824 \long\def\Gscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
16825 \leavevmode
16826 \def\Gscale@x{#1}\def\Gscale@y{#2}%
16827 \setbox\z@\hbox{#{#3}}%
16828 \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
16829 \ifdim#2\p<\z@
16830 \ht\tw@-#2\dp\z@
16831 \dp\tw@-#2\ht\z@
16832 \else
16833 \ht\tw@#2\ht\z@
16834 \dp\tw@#2\dp\z@
16835 \fi
16836 \ifdim#1\p<\z@
16837 \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
16838 \else
16839 \wd\tw@#1\wd\z@
16840 \box\tw@
16841 \fi\ifmmode\else\if@RTL\endL\fi\fi}
16842 \def\Gin@iii[#1,#2][#3,#4]#5{%
16843 \begingroup
16844 \ifmmode\else\if@RTL\beginL\fi\fi
16845 \Gin@bboxtrue
16846 \Gin@defaultbp\Gin@llx{#1}%
16847 \Gin@defaultbp\Gin@lly{#2}%
16848 \Gin@defaultbp\Gin@urx{#3}%
16849 \Gin@defaultbp\Gin@ury{#4}%
16850 \Gin@include@graphics{#5}%
16851 \ifmmode\else\if@RTL\endL\fi\fi
16852 \endgroup}
16853 \def\Gin@ii[#1]#2{%
16854 \def\@tempa{[]}\def\@tempb{#2}%
16855 \ifx\@tempa\@tempb
16856 \def\@tempa{\Gin@iii[#1] []}%
16857 \expandafter\@tempa
16858 \else
16859 \begingroup
16860 \ifmmode\else\if@RTL\beginL\fi\fi
16861 \@tempswafalse
16862 \toks@{\Gin@include@graphics{#2}}%
16863 \setkeys{Gin}{#1}%
16864 \Gin@esetsize
16865 \the\toks@
16866 \ifmmode\else\if@RTL\endL\fi\fi
16867 \endgroup
16868 \fi}
16869 \def\reflectbox{\bidiGscale@box-1[1]}
16870 \long\def\bidiGscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
16871 \leavevmode
16872 \def\Gscale@x{#1}\def\Gscale@y{#2}%
16873 \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL
16874 \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%

```



```

16875 \ifdim#2\p@<\z@
16876 \ht\tw@-#2\dp\z@
16877 \dp\tw@-#2\ht\z@
16878 \else
16879 \ht\tw@#2\ht\z@
16880 \dp\tw@#2\dp\z@
16881 \fi
16882 \ifdim#1\p@<\z@
16883 \hb@xt@-#1\wd\z@{\kern-#1\wd\z@box\tw@hss}%
16884 \else
16885 \wd\tw@#1\wd\z@
16886 \box\tw@
16887 \fi\ifmmode\else\if@RTL\endL\fi\fi}
16888 \def\scalebox#1{%
16889 \@ifnextchar[{\bidiGscale@box{#1}}{\bidiGscale@box{#1}[#1]}}
16890 \def\resizebox{%
16891 \leavevmode
16892 \@ifstar{\bidiGscale@@box\totalheight}{\bidiGscale@@box\height}}
16893 \def\bidiGscale@@box#1#2#3{%
16894 \let\@tempa\Gin@exclamation
16895 \expandafter\def\expandafter\@tempb\expandafter{\string#2}%
16896 \expandafter\def\expandafter\@tempc\expandafter{\string#3}%
16897 \ifx\@tempb\@tempa
16898 \ifx\@tempc\@tempa
16899 \toks@{\mbox}%
16900 \else
16901 \toks@{\bidiGscale@box@dd{#3}#1}%
16902 \fi
16903 \else
16904 \ifx\@tempc\@tempa
16905 \toks@{\bidiGscale@box@dd{#2}\width}%
16906 \else
16907 \toks@{\bidiGscale@box@dddd{#2}\width{#3}#1}%
16908 \fi
16909 \fi
16910 \the\toks@}
16911 \long\def\bidiGscale@box@dd#1#2#3{%
16912 \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
16913 \setlength\@tempdima{#1}%
16914 \setlength\@tempdimb{#2}%
16915 \Gscale@div\@tempa\@tempdima\@tempdimb
16916 \Gscale@box\@tempa[\@tempa]{\box\@tempboxa}%
16917 \@end@tempboxa}
16918 \long\def\bidiGscale@box@dddd#1#2#3#4#5{%
16919 \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#5\if@RTL\endR\fi\else\if@RTL\beginR\fi#5\if@RTL\endR\fi}%
16920 \setlength\@tempdima{#1}%
16921 \setlength\@tempdimb{#2}%
16922 \Gscale@div\@tempa\@tempdima\@tempdimb
16923 \setlength\@tempdima{#3}%
16924 \setlength\@tempdimb{#4}%
16925 \Gscale@div\@tempb\@tempdima\@tempdimb
16926 \ifGin@iso
16927 \ifdim\@tempa\p@>\@tempb\p@
16928 \let\@tempa\@tempb

```



```

16929     \else
16930     \let\@tempb\@tempa
16931     \fi
16932     \fi
16933     \Gscale@box\@tempa[\@tempb]{\box\@tempboxa}%
16934 \end@tempboxa}

```

100 File geometry-xetex-bidi.def

```

16935 \ProvidesFile{geometry-xetex-bidi.def}[2017/01/14 v0.2 bidi adaptations for geometry package]
16936 \renewcommand*{\Gm@vrules@mpii}{%
16937 \if@RTLmain%
16938     \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
16939     \llap{\Gm@vrule}\ignorespaces
16940     \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
16941     \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}%
16942 \else%
16943 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
16944 \hskip \textwidth\Gm@vrule\hskip \marginparsep
16945 \llap{\Gm@vrule}\hfil\Gm@vrule}\fi}%
16946 \renewcommand*{\Gm@vrules@mpii}{%
16947 \if@RTLmain%
16948 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
16949 \hskip \textwidth\Gm@vrule\hskip \marginparsep
16950 \llap{\Gm@vrule}\hfil\Gm@vrule}%
16951 \else%
16952 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
16953 \llap{\Gm@vrule}\ignorespaces
16954 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
16955 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}\fi}%
16956 \bidi@patchcmd{\Gm@pageframes}{%
16957     \ifodd\count\z@
16958     \let\@themargin\oddsidemargin
16959     \else
16960     \let\@themargin\evensidemargin
16961     \fi
16962 }{%
16963     \ifodd\count\z@
16964     \if@RTLmain
16965     \let\@themargin\evensidemargin
16966     \else
16967     \let\@themargin\oddsidemargin
16968     \fi
16969     \else
16970     \if@RTLmain
16971     \let\@themargin\oddsidemargin
16972     \else
16973     \let\@themargin\evensidemargin
16974     \fi
16975     \fi
16976 }{}{}

```

101 File hvfloat-xetex-bidi.def



```

16977 \ProvidesFile{hvfloat-xetex-bidi.def}[2012/04/18 v0.2 bidi adaptations for hvfloat package f
16978 \def\do@hvFloat[#1]#2#3{%
16979 \def\hv@shortCap{#1}
16980 \def\hv@longCap{#2}
16981 \def\hv@label{#3}
16982 %\newcommand*{\hvFloat}[5][{}]{%
16983 % [#1]: keyvalues
16984 % #2: type figure | table | ...
16985 % #3: float contents
16986 % [#4]: short caption
16987 % #5: caption
16988 % #6: label
16989 % \setDefault%
16990 % \def\@tempa{#1}%
16991 % \ifx\@tempa\empty\else\setkeys{hvSet}{#1}\fi% set options, only when not empty
16992 \def\@tempa{90}%
16993 \ifx\hvSet@rotAngle\@tempa \setlength{\hvMaxCapWidth}{\textheight}
16994 \else \setlength{\hvMaxCapWidth}{\linewidth}
16995 \fi
16996 %
16997 % First we save the object in \hvObjectBox
16998 %
16999 \ifx\hvSet@objectAngle\hv@Zero % rotate the object?
17000 \savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}
17001 \else
17002 \savebox{\hvObjectBox}{%
17003 \rotatebox{\hvSet@objectAngle}{%
17004 \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}}
17005 \fi
17006 \setlength{\hvObjectWidth}{\wd\hvObjectBox}
17007 %
17008 % Now we save the caption with its defined \hvCapWidth
17009 %
17010 \ifx\hvSet@capWidth\hv@Width\setlength{\hvCapWidth}{\hvObjectWidth}
17011 \else
17012 \ifx\hvSet@capWidth\hv@Height\setlength{\hvCapWidth}{\ht\hvObjectBox}
17013 \else
17014 \setlength{\hvCapWidth}{\hvObjectWidth}
17015 \ifx\hvSet@capPos\hv@Left\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
17016 \ifx\hvSet@capPos\hv@Right\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
17017 \ifdim\hvSet@capWidth\columnwidth<\hvMaxCapWidth
17018 \setlength{\hvCapWidth}{\hvSet@capWidth\columnwidth}
17019 \else
17020 \setlength{\hvCapWidth}{\hvMaxCapWidth}
17021 \fi
17022 \fi
17023 \fi
17024 %
17025 % now we have the object and the caption with the right
17026 % rotated angles saved in boxes
17027 %
17028 \def\fps@figure{\hvSet@floatPos}
17029 \ifhv@nonFloat\begin{group}% Start the nonfloat part
17030 \else \begin{floating environment

```



```

17031 \fi%
17032 \saveCaptionSkip% we put this space ourselve
17033 \ifx\hvSet@capAngle\hv@Width % need rotation?
17034 \sbox{\hvCaptionBox}{%
17035 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
17036 \ifhv@nonFloat%
17037 \ifhv@onlyText#2%
17038 \else%
17039 \ifx\hv@floatType\hv@figure
17040 \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
17041 \else
17042 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
17043 \fi
17044 \fi
17045 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
17046 \fi%
17047 \label{#3}%
17048 \end{minipage}%
17049 }%
17050 \else%
17051 \sbox{\hvCaptionBox}{%
17052 \rotatebox{\hvSet@capAngle}{%
17053 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
17054 \ifhv@nonFloat%
17055 \ifhv@onlyText#2%
17056 \else%
17057 \ifx\hv@floatType\hv@figure
17058 \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
17059 \else
17060 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
17061 \fi
17062 \fi
17063 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
17064 \fi%
17065 \label{#3}%
17066 \end{minipage}%
17067 }%
17068 }%
17069 \fi%
17070 %%
17071 \restoreCaptionSkip% save old values
17072 \ifx\hvSet@objectPos\hv@Right\@bidi@raggedleft%
17073 \else%
17074 \ifx\hvSet@objectPos\hv@Center
17075 \ifhv@nonFloat\hspace*{\fill}\else\centering\fi%
17076 \fi%
17077 \fi%
17078 %
17079 % to rotate object and caption together, we save all in another box
17080 % the caption comes first, if its on the left or the top
17081 %
17082 \savebox{\@tempboxa}{%
17083 \ifx\hvSet@capPos\hv@Left % caption on left side
17084 \if@RTL%

```



```

17085 \ifx\hvSet@capVPos\hv@Center%
17086     \ifhv@fbox
17087         \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
17088     \else
17089         \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17090     \fi%
17091     \hspace{\hvSet@floatCapSep pt}%
17092     \ifhv@fbox
17093         \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17094     \else
17095         \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
17096     \fi%
17097 \else%
17098     \ifx\hvSet@capVPos\hv@Top
17099         \ifhv@fbox
17100             \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17101         \else
17102             \raisebox{-\height}{\usebox{\hvObjectBox}}
17103         \fi%
17104         \hspace{\hvSet@floatCapSep pt}%
17105         \ifhv@fbox
17106             \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17107         \else
17108             \raisebox{-\height}{\usebox{\hvCaptionBox}}
17109         \fi
17110     \else
17111         \ifhv@fbox
17112             \fbox{\usebox{\hvObjectBox}}%
17113         \else
17114             \usebox{\hvObjectBox}%
17115         \fi
17116         \hspace{\hvSet@floatCapSep pt}%
17117         \ifhv@fbox
17118             \fbox{\usebox{\hvCaptionBox}}%
17119         \else
17120             \usebox{\hvCaptionBox}%
17121         \fi%
17122     \fi%
17123 \fi%
17124 \else% not RTL
17125     \ifx\hvSet@capVPos\hv@Center%
17126         \ifhv@fbox\fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17127     \else
17128         \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
17129     \fi%
17129     \hspace{\hvSet@floatCapSep pt}% capfloatsep
17130     \ifhv@fbox\fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
17131     \else
17132         \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17133     \fi%
17133 \else%
17134     \ifx\hvSet@capVPos\hv@Top % caption at top
17135         \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17136     \else
17137         \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17138     \fi
17137     \hspace{\hvSet@floatCapSep pt}% capfloatsep

```




```

17139     \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17140     \else      \raisebox{-\height}{\usebox{\hvObjectBox}}%
17141     \fi%
17142     \else% caption on bottom
17143     \ifhv@fbox\fbbox{\usebox{\hvCaptionBox}}
17144         \else\usebox{\hvCaptionBox}
17145     \fi%
17146     \hspace{\hvSet@floatCapSep pt}%
17147     \ifhv@fbox\fbbox{\usebox{\hvObjectBox}}
17148     \else      \usebox{\hvObjectBox}
17149     \fi%
17150     \fi%
17151 \fi% end of RTL
17152 \fi%
17153 \else
17154     \ifx\hvSet@capPos\hv@Top
17155     \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
17156         \begin{minipage}{\wd\hvCaptionBox}
17157     \else
17158         \begin{minipage}{\wd\hvObjectBox}
17159     \fi
17160     \centering
17161     \ifhv@fbox
17162         \fbbox{\usebox{\hvCaptionBox}}\[\hvBelowCaptionSkip]
17163         \fbbox{\usebox{\hvObjectBox}}
17164     \else
17165         \usebox{\hvCaptionBox}\[\hvBelowCaptionSkip]
17166         \usebox{\hvObjectBox}
17167     \fi%
17168     \end{minipage}
17169 \else
17170     \ifx\hvSet@capPos\hv@Bottom
17171     \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
17172         \begin{minipage}{\wd\hvCaptionBox}
17173     \else
17174         \begin{minipage}{\wd\hvObjectBox}
17175     \fi
17176     \centering
17177     \ifhv@fbox
17178         \fbbox{\usebox{\hvObjectBox}}\[\hvAboveCaptionSkip]
17179         \fbbox{\usebox{\hvCaptionBox}}
17180     \else
17181         \usebox{\hvObjectBox}\[\hvAboveCaptionSkip]
17182         \usebox{\hvCaptionBox}
17183     \fi%
17184     \end{minipage}
17185     \else% the last option: put the caption on the right
17186 \if@RTL%
17187     \ifx\hvSet@capVPos\hv@Center%
17188     \ifhv@fbox\fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17189     \else      \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
17190     \fi%
17191     \hspace{\hvSet@floatCapSep pt}% capfloatsep
17192     \ifhv@fbox\fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}

```



```

17193 \else \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17194 \fi%
17195 \else%
17196 \ifx\hvSet@capVPos\hv@Top % caption at top
17197 \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17198 \else \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17199 \fi
17200 \hspace{\hvSet@floatCapSep pt}% capfloatsep
17201 \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17202 \else \raisebox{-\height}{\usebox{\hvObjectBox}}%
17203 \fi%
17204 \else% caption on bottom
17205 \ifhv@fbox\fbbox{\usebox{\hvCaptionBox}}
17206 \else\usebox{\hvCaptionBox}
17207 \fi%
17208 \hspace{\hvSet@floatCapSep pt}%
17209 \ifhv@fbox\fbbox{\usebox{\hvObjectBox}}
17210 \else \usebox{\hvObjectBox}
17211 \fi%
17212 \fi%
17213 \fi%
17214 \else% not RTL
17215 \ifx\hvSet@capVPos\hv@Center%
17216 \ifhv@fbox
17217 \fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
17218 \else
17219 \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17220 \fi%
17221 \hspace{\hvSet@floatCapSep pt}%
17222 \ifhv@fbox
17223 \fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17224 \else
17225 \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
17226 \fi%
17227 \else%
17228 \ifx\hvSet@capVPos\hv@Top
17229 \ifhv@fbox
17230 \fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17231 \else
17232 \raisebox{-\height}{\usebox{\hvObjectBox}}%
17233 \fi%
17234 \hspace{\hvSet@floatCapSep pt}%
17235 \ifhv@fbox
17236 \fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17237 \else
17238 \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17239 \fi
17240 \else
17241 \ifhv@fbox
17242 \fbbox{\usebox{\hvObjectBox}}%
17243 \else
17244 \usebox{\hvObjectBox}%
17245 \fi
17246 \hspace{\hvSet@floatCapSep pt}%

```



```

17247         \ifhv@fbox
17248         \fbox{\usebox{\hvCaptionBox}}}%
17249         \else
17250         \usebox{\hvCaptionBox}%
17251         \fi%
17252     \fi%
17253 \fi
17254 \fi% end of RTL
17255 \fi
17256 \fi
17257 \fi
17258 }% End savebox Object and caption
17259 %
17260 % now we rotate the object and caption, if needed
17261 %
17262 \ifx\hvSet@rotAngle\hv@Zero
17263     \usebox{\@tempboxa}
17264 \else
17265     \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}
17266 \fi
17267 \ifhv@nonFloat
17268     \ifx\hvSet@objectPos\hv@Center
17269         \ifhv@nonFloat
17270             \hspace{\fill}
17271         \fi
17272     \fi
17273 \endgroup% End the nonfloat part
17274 \else
17275 \end{\hv@floatType}% End the floating environment
17276 \fi
17277 }

```

102 File hyperref-xetex-bidi.def

```

17278 \ProvidesFile{hyperref-xetex-bidi.def}[2025/01/05 v1.4 bidi adaptations for hyperref package]
17279 \AtBeginDocument{%
17280 \def\contentsline#1#2#3#4{%
17281     \ifx\#4\%
17282         \csname l@#1\endcsname{#2}{#3}%
17283     \else
17284         \ifcase\Hy@linktoc % none
17285             \csname l@#1\endcsname{#2}{#3}%
17286         \or % section
17287             \csname l@#1\endcsname{%
17288                 \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
17289             }{#3}%
17290         \or % page
17291             \csname l@#1\endcsname{#2}{#3}%
17292             \hyper@linkstart{link}{#4}{#3}\hyper@linkend
17293         }%
17294     \else % all
17295         \csname l@#1\endcsname{%
17296             \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
17297         }{#3}%

```



```

17298      \hyper@linkstart{link}{#4}{#3}\hyper@linkend
17299      }%
17300      \fi
17301      \fi
17302 }
17303 \ifHy@hyperfootnotes
17304   \let\H@@footnotetext\@footnotetext
17305   \let\HRTL@RTLfootnotetext\@RTLfootnotetext
17306   \let\HLTR@LTRfootnotetext\@LTRfootnotetext
17307   \def\@xfootnotenext[#1]{%
17308     \begingroup
17309       \csname c@\@mpfn\endcsname #1\relax
17310       \unrestored@protected@xdef\@thefnmark{\thempfn}%
17311     \endgroup
17312     \ifx\@footnotetext\@mpfootnotetext
17313       \expandafter\H@@mpfootnotetext
17314     \else
17315       \expandafter\H@@footnotetext
17316     \fi
17317   }%
17318   \def\@xRTLfootnotenext[#1]{%
17319     \begingroup
17320       \csname c@\@mpfn\endcsname #1\relax
17321       \unrestored@protected@xdef\@thefnmark{\thempfn}%
17322     \endgroup
17323     \ifx\@RTLfootnotetext\@mpRTLfootnotetext
17324       \expandafter\HRTL@mpRTLfootnotetext
17325     \else
17326       \expandafter\HRTL@RTLfootnotetext
17327     \fi
17328   }%
17329   \def\@xLTRfootnotenext[#1]{%
17330     \begingroup
17331       \csname c@\@mpfn\endcsname #1\relax
17332       \unrestored@protected@xdef\@thefnmark{\thempfn}%
17333     \endgroup
17334     \ifx\@LTRfootnotetext\@mpLTRfootnotetext
17335       \expandafter\HLTR@mpLTRfootnotetext
17336     \else
17337       \expandafter\HLTR@LTRfootnotetext
17338     \fi
17339   }%
17340   \def\@xfootnotemark[#1]{%
17341     \begingroup
17342       \c@footnote #1\relax
17343       \unrestored@protected@xdef\@thefnmark{\thefootnote}%
17344     \endgroup
17345     \H@@footnotemark
17346   }%
17347   \let\H@@mpfootnotetext\@mpfootnotetext
17348   \let\HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
17349   \let\HLTR@mpLTRfootnotetext\@mpLTRfootnotetext
17350   \long\def\@mpfootnotetext#1{%
17351     \H@@mpfootnotetext{%

```



```

17352     \ifHy@nesting
17353     \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17354     \else
17355     \Hy@raisedlink{%
17356     \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17357     }#1%
17358     \fi
17359   }%
17360 }%
17361 \long\def\@mpRTLfootnotetext#1{%
17362 \HRTL@mpRTLfootnotetext{%
17363 \ifHy@nesting
17364 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17365 \else
17366 \Hy@raisedlink{%
17367 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17368 }#1%
17369 \fi
17370 }%
17371 }%
17372 \long\def\@mplTRfootnotetext#1{%
17373 \HLTR@mplTRfootnotetext{%
17374 \ifHy@nesting
17375 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17376 \else
17377 \Hy@raisedlink{%
17378 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17379 }#1%
17380 \fi
17381 }%
17382 }%
17383 \long\def\@footnotetext#1{%
17384 \H@footnotetext{%
17385 \ifHy@nesting
17386 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17387 \else
17388 \Hy@raisedlink{%
17389 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17390 }%
17391 \let\@currentHlabel\Hy@footnote@currentHlabel
17392 \let\@currentHref\Hy@footnote@currentHref
17393 \let\@currentlabelname\@empty
17394 }#1%
17395 \fi
17396 }%
17397 }%
17398 \long\def\@RTLfootnotetext#1{%
17399 \HRTL@RTLfootnotetext{%
17400 \ifHy@nesting
17401 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17402 \else
17403 \Hy@raisedlink{%
17404 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17405 }%

```



```

17406         \let\@currentHlabel\Hy@footnote@currentHlabel
17407         \let\@currentHref\Hy@footnote@currentHref
17408         \let\@currentlabelname\@empty
17409         #1%
17410     \fi
17411 }%
17412 }%
17413 \long\def\@LTRfootnotetext#1{%
17414 \HLTR@@LTRfootnotetext{%
17415     \ifHy@nesting
17416         \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17417     \else
17418         \Hy@raisedlink{%
17419             \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17420         }%
17421         \let\@currentHlabel\Hy@footnote@currentHlabel
17422         \let\@currentHref\Hy@footnote@currentHref
17423         \let\@currentlabelname\@empty
17424         #1%
17425     \fi
17426 }%
17427 }%
17428 \ApplyPatchCodeToPackage{tabularx}{%
17429 \let\HyOrg@TX@endtabularx\TX@endtabularx
17430 \def\Hy@tabularx@hook{%
17431     \let\@footnotetext\H@@footnotetext
17432     \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
17433     \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
17434     \let\@footnotemark\H@@footnotemark
17435     \let\@mpfootnotetext\H@@mpfootnotetext
17436     \let\@mpLTRfootnotetext\HLTR@@mpLTRfootnotetext
17437     \let\@mpRTLfootnotetext\HRTL@@mpRTLfootnotetext
17438 }%
17439 \begingroup
17440     \toks@{\expandafter{\TX@endtabularx}}%
17441     \xdef\Hy@gtemp{%
17442         \noexpand\Hy@tabularx@hook
17443         \the\toks@
17444     }%
17445 \endgroup
17446 \let\TX@endtabularx\Hy@gtemp
17447 }%
17448 \ApplyPatchCodeToPackage{longtable}{%
17449 \CheckCommand{\LT@p@LTRfnttext}[1]{%
17450     \edef\@tempa{%
17451         \the\LT@p@ftn
17452         \noexpand\LTRfootnotetext[\the\c@footnote]%
17453     }%
17454     \global\LT@p@ftn\expandafter{\@tempa{#1}}%
17455 }%
17456 \long\def\LT@p@LTRfnttext#1{%
17457     \edef\@tempa{%
17458         \the\LT@p@ftn
17459         \begingroup

```



```

17460         \noexpand\c@footnote=\the\c@footnote\relax
17461         \noexpand\protected@xdef\noexpand\@thefnmark{%
17462             \noexpand\thempfn
17463         }%
17464         \noexpand\Hy@LT@LTRfootnotetext{%
17465             \Hy@footnote@currentHref
17466         }%
17467     }%
17468     \global\LT@p@ftn\expandafter{%
17469         \@tempa{#1}%
17470     \endgroup
17471 }%
17472 }%
17473 \long\def\Hy@LT@LTRfootnotetext#1#2{%
17474     \HLTR@@LTRfootnotetext{%
17475         \ifHy@nesting
17476             \hyper@@anchor{#1}{#2}%
17477         \else
17478             \Hy@raisedlink{%
17479                 \hyper@@anchor{#1}{\relax}%
17480             }%
17481             \def\@currentHref{#1}%
17482             \let\@currentlabelname\@empty
17483             #2%
17484         \fi
17485     }%
17486 }%
17487 \CheckCommand{\LT@p@RTLftntext}[1]{%
17488     \edef\@tempa{%
17489         \the\LT@p@ftn
17490         \noexpand\RTLfootnotetext[\the\c@footnote]%
17491     }%
17492     \global\LT@p@ftn\expandafter{\@tempa{#1}}%
17493 }%
17494 \long\def\LT@p@RTLftntext#1{%
17495     \edef\@tempa{%
17496         \the\LT@p@ftn
17497     \begingroup
17498         \noexpand\c@footnote=\the\c@footnote\relax
17499         \noexpand\protected@xdef\noexpand\@thefnmark{%
17500             \noexpand\thempfn
17501         }%
17502         \noexpand\Hy@LT@RTLfootnotetext{%
17503             \Hy@footnote@currentHref
17504         }%
17505     }%
17506     \global\LT@p@ftn\expandafter{%
17507         \@tempa{#1}%
17508     \endgroup
17509 }%
17510 }%
17511 \long\def\Hy@LT@RTLfootnotetext#1#2{%
17512     \HRTL@@RTLfootnotetext{%
17513         \ifHy@nesting

```



```

17514         \hyper@@anchor{#1}{#2}%
17515     \else
17516         \Hy@raisedlink{%
17517             \hyper@@anchor{#1}{\relax}%
17518         }%
17519         \def\@currentHref{#1}%
17520         \let\@currentlabelname\@empty
17521         #2%
17522     \fi
17523 }%
17524 }%
17525 }%
17526 \ApplyPatchCodeToPackage{bidipoem}{%
17527 \long\def\bidipoem@p@ftntext#1{%
17528     \edef\@tempxi{%
17529         \the\bidipoem@p@ftn
17530     \beginingroup
17531         \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
17532         \noexpand\protected@xdef\noexpand\@thefnmark{%
17533             \noexpand\thempfn
17534         }%
17535         \noexpand\Hy@bidipoem@footnotetext{%
17536             \Hy@footnote@currentHref
17537         }%
17538     }%
17539     \global\bidipoem@p@ftn\expandafter{%
17540         \@tempxi{#1}%
17541     \endgroup
17542 }%
17543 }%
17544 \long\def\Hy@bidipoem@footnotetext#1#2{%
17545     \H@@footnotetext{%
17546         \ifHy@nesting
17547             \hyper@@anchor{#1}{#2}%
17548         \else
17549             \Hy@raisedlink{%
17550                 \hyper@@anchor{#1}{\relax}%
17551             }%
17552             \def\@currentHref{#1}%
17553             \let\@currentlabelname\@empty
17554             #2%
17555         \fi
17556     }%
17557 }%
17558 \long\def\bidipoem@p@LTRftntext#1{%
17559 \edef\@tempxi{%
17560     \the\bidipoem@p@ftn
17561 \beginingroup
17562     \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
17563     \noexpand\protected@xdef\noexpand\@thefnmark{%
17564         \noexpand\thempfn
17565     }%
17566     \noexpand\Hy@bidipoem@LTRfootnotetext{%
17567         \Hy@footnote@currentHref

```




```

17568     }%
17569   }%
17570   \global\bidipoem@p@ftn\expandafter{%
17571     \@tempxi{#1}%
17572   \endgroup
17573   }%
17574 }%
17575 \long\def\Hy@bidipoem@LTRfootnotetext#1#2{%
17576   \HLTR@@LTRfootnotetext{%
17577     \ifHy@nesting
17578       \hyper@@anchor{#1}{#2}%
17579     \else
17580       \Hy@raisedlink{%
17581         \hyper@@anchor{#1}{\relax}%
17582       }%
17583       \def\@currentHref{#1}%
17584       \let\@currentlabelname\@empty
17585       #2%
17586     \fi
17587   }%
17588 }%
17589   \long\def\bidipoem@p@RTLftntext#1{%
17590   \edef\@tempxii{%
17591     \the\bidipoem@p@ftn
17592   \begingroup
17593     \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
17594     \noexpand\protected@xdef\noexpand\@thefnmark{%
17595       \noexpand\thempfn
17596     }%
17597     \noexpand\Hy@bidipoem@RTLfootnotetext{%
17598       \Hy@footnote@currentHref
17599     }%
17600   }%
17601   \global\bidipoem@p@ftn\expandafter{%
17602     \@tempxii{#1}%
17603   \endgroup
17604   }%
17605 }%
17606 \long\def\Hy@bidipoem@RTLfootnotetext#1#2{%
17607   \HRTL@@RTLfootnotetext{%
17608     \ifHy@nesting
17609       \hyper@@anchor{#1}{#2}%
17610     \else
17611       \Hy@raisedlink{%
17612         \hyper@@anchor{#1}{\relax}%
17613       }%
17614       \def\@currentHref{#1}%
17615       \let\@currentlabelname\@empty
17616       #2%
17617     \fi
17618   }%
17619 }%
17620 }%
17621 \let\HyOrg@maketitle\maketitle

```



```

17622 \def\maketitle{%
17623   \let\Hy@saved@footnotemark\@footnotemark
17624   \let\Hy@saved@footnotetext\@footnotetext
17625   \let\HyRTL@saved@RTLfootnotetext\@RTLfootnotetext
17626   \let\HyLTR@saved@LTRfootnotetext\@LTRfootnotetext
17627   \let\@footnotemark\H@@footnotemark
17628   \let\@footnotetext\H@@footnotetext
17629   \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
17630   \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
17631   \@ifnextchar[\Hy@maketitle@optarg{% ]
17632     \HyOrg@maketitle
17633     \Hy@maketitle@end
17634   }%
17635 }%
17636 \def\Hy@maketitle@optarg[#1]{%
17637   \HyOrg@maketitle[#{#1}]%
17638   \Hy@maketitle@end
17639 }%
17640 \def\Hy@maketitle@end{%
17641   \ifx\@footnotemark\H@@footnotemark
17642     \let\@footnotemark\Hy@saved@footnotemark
17643   \fi
17644   \ifx\@footnotetext\H@@footnotetext
17645     \let\@footnotetext\Hy@saved@footnotetext
17646   \fi
17647   \ifx\@RTLfootnotetext\HRTL@@RTLfootnotetext
17648     \let\@RTLfootnotetext\HyRTL@saved@RTLfootnotetext
17649   \fi
17650   \ifx\@LTRfootnotetext\HLTR@@LTRfootnotetext
17651     \let\@LTRfootnotetext\HyLTR@saved@LTRfootnotetext
17652   \fi
17653 }%
17654 \def\realfootnote{%
17655   \@ifnextchar[\@xfootnote{%
17656     \stepcounter{\@mpfn}%
17657     \protected@xdef\@thefnmark{\thempfn}%
17658     \H@@footnotemark\H@@footnotetext
17659   }%
17660 }%
17661 \fi
17662 \def\Hy@BeginAnnot#1{%
17663   \ifmmode\else\beginL\fi%
17664   \global\advance\c@Hy@AnnotLevel\@ne
17665   \ifnum\c@Hy@AnnotLevel=\@ne
17666     #1%
17667   \fi
17668 }
17669 \def\Hy@EndAnnot{%
17670   \ifnum\c@Hy@AnnotLevel=\@ne
17671     \Hy@endcolorlink
17672     \@pdfm@mark{eann}%
17673   \fi
17674   \global\advance\c@Hy@AnnotLevel\m@ne
17675   \ifmmode\else\endL\fi%

```



```

17676 }
17677 \def\hyper@link#1#2#3{%
17678   \hyper@linkstart{#1}{#2}\ifmmode\else\if@RTL\beginR\fi\fi#3\ifmmode\else\if@RTL\endR\fi\fi
17679 }
17680 \def\hyper@linkfile#1#2#3{%
17681   \leavevmode
17682   \Hy@BeginAnnot{%
17683     \def\Hy@pstringF{#2}%
17684     \Hy@CleanupFile\Hy@pstringF
17685     \Hy@pstringdef\Hy@pstringF\Hy@pstringF
17686     \Hy@pstringdef\Hy@pstringD{#3}%
17687     \Hy@MakeRemoteAction
17688     \@pdfm@mark{%
17689       bann<<%
17690         /Type/Annot%
17691         /Subtype/Link%
17692         \ifHy@pdfa /F 4\fi
17693         \Hy@setpdfborder
17694         \ifx\@filebordercolor\relax
17695           \else
17696             /C[\@filebordercolor]%
17697           \fi
17698         /A<<%
17699         /S/GoToR%
17700         /F(\Hy@pstringF)%
17701         /D%
17702         \ifx\#3\%
17703           [\Hy@href@page\@pdfremotestartview]%
17704         \else
17705           (\Hy@pstringD)%
17706         \fi
17707         \Hy@SetNewWindow
17708         \Hy@href@nextactionraw
17709       >>%
17710     >>%
17711   }%
17712   \Hy@colorlink\@filecolor
17713 }%
17714 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17715 \Hy@endAnnot
17716 }
17717 \def\@hyper@launch run:#1\#2#3{% filename, anchor text linkname
17718   \leavevmode
17719   \Hy@BeginAnnot{%
17720     \Hy@pstringdef\Hy@pstringF{#1}%
17721     \Hy@pstringdef\Hy@pstringP{#3}%
17722     \@pdfm@mark{%
17723       bann<<%
17724         /Type/Annot%
17725         /Subtype/Link%
17726         \ifHy@pdfa /F 4\fi
17727         \Hy@setpdfborder
17728         \ifx\@runbordercolor\relax
17729           \else

```



```

17730         /C[\@runbordercolor]%
17731     \fi
17732     /A<<%
17733         /F(\Hy@pstringF)%
17734         /S/Launch%
17735         \Hy@SetNewWindow
17736         \ifx\#3\%
17737     \else
17738         /Win<</P(\Hy@pstringP)/F(\Hy@pstringF)>>%
17739     \fi
17740     \Hy@href@nextactionraw
17741     >>%
17742 >>%
17743 }%
17744 \Hy@colorlink\@runcolor
17745 }%
17746 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17747 \Hy@endAnnot
17748 }
17749 \def\hyper@linkurl#1#2{%
17750 \leavevmode
17751 \Hy@BeginAnnot{%
17752 \Hy@pstringdef\Hy@pstringURI{#2}%
17753 \@pdfm@mark{%
17754     bann<<%
17755         /Type/Annot%
17756         /Subtype/Link%
17757         \ifHy@pdfa /F 4\fi
17758         \Hy@setpdfborder
17759         \ifx\@urlbordercolor\relax
17760     \else
17761         /C[\@urlbordercolor]%
17762     \fi
17763     /A<<%
17764         /S/URI%
17765         /URI(\Hy@pstringURI)%
17766         \ifHy@href@ismap
17767         /IsMap true%
17768     \fi
17769     \Hy@href@nextactionraw
17770     >>%
17771 >>%
17772 }%
17773 \Hy@colorlink\@urlcolor
17774 }%
17775 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17776 \Hy@endAnnot
17777 }
17778 \def\Acrobatmenu#1#2{%
17779 \Hy@Acrobatmenu{#1}{#2}%
17780 \Hy@BeginAnnot{%
17781 \EdefEscapeName\Hy@temp@menu{#1}%
17782 \@pdfm@mark{%
17783     bann<<%

```



```

17784      /Type/Annot%
17785      /Subtype/Link%
17786      \ifHy@pdfa /F 4\fi
17787      \Hy@setpdfborder
17788      \ifx\@menubordercolor\relax
17789      \else
17790      /C[\@menubordercolor]%
17791      \fi
17792      /A<<%
17793      /S/Named%
17794      /N/\Hy@temp@menu
17795      \Hy@href@nextactionraw
17796      >>%
17797      >>%
17798      }%
17799      \Hy@colorlink\@menucolor
17800      }%
17801      \ifmode\else\if@RTL\beginR\fi\fi#2\ifmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17802      \Hy@endAnnot
17803      }%
17804      }
17805      \def\hyper@natlinkstart#1{%
17806      \Hy@backout{#1}%
17807      \hyper@linkstart{cite}{cite.#1}\if@RTL\beginR\fi%
17808      \def\hyper@nat@current{#1}%
17809      }
17810      \def\hyper@natlinkend{%
17811      \if@RTL\endR\fi\hyper@linkend
17812      }
17813      \def\hyper@natlinkbreak#1#2{%
17814      \if@RTL\endR\fi\hyper@linkend#1\hyper@linkstart{cite}{cite.#2}\if@RTL\beginR\fi%
17815      }%
17816      }
17817      \pdfstringdefDisableCommands{%
17818      \let\LRE\@firstofone
17819      \let\LR\@firstofone
17820      \let\RLE\@firstofone
17821      \let\RL\@firstofone
17822      \def\XeTeX{Xe\TeX}%
17823      \def\XeLaTeX{Xe\LaTeX}%
17824      }
17825      \bidi@patchcmd\@TextField{%
17826      \@pdfm@mark
17827      }{%
17828      \if@RTL
17829      \hskip\Fld@width
17830      \fi
17831      \@pdfm@mark
17832      }{}{}
17833      \bidi@patchcmd\@TextField{%
17834      \unhbox
17835      }{%
17836      \if@RTL
17837      \hskip-\Fld@width

```



```

17838 \fi
17839 \unhbox
17840 }{}{}
17841 \bidi@patchcmd\@@Radio{%
17842 \@pdfm@mark
17843 }{%
17844 \if@RTL
17845 \hskip\Fld@width
17846 \fi
17847 \@pdfm@mark
17848 }{}{}
17849 \bidi@patchcmd\@@Radio{%
17850 \unhcopy
17851 }{%
17852 \if@RTL
17853 \hskip-\Fld@width
17854 \fi
17855 \unhcopy
17856 }{}{}
17857 \bidi@patchcmd\@Submit{%
17858 \@pdfm@mark
17859 }{%
17860 \if@RTL
17861 \null
17862 \hskip\wd\pdfm@box
17863 \fi
17864 \@pdfm@mark
17865 }{}{}
17866 \bidi@patchcmd\@Submit{%
17867 \unhbox
17868 }{%
17869 \if@RTL
17870 \hskip-\wd\pdfm@box
17871 \fi
17872 \unhbox
17873 }{}{}
17874 \bidi@patchcmd\@Reset{%
17875 \@pdfm@mark
17876 }{%
17877 \if@RTL
17878 \null
17879 \hskip\wd\pdfm@box
17880 \fi
17881 \@pdfm@mark
17882 }{}{}
17883 \bidi@patchcmd\@Reset{%
17884 \unhbox
17885 }{%
17886 \if@RTL
17887 \hskip-\wd\pdfm@box
17888 \fi
17889 \unhbox
17890 }{}{}

```



103 File imspdoc-xetex-bidi.def

```

17891 \ProvidesFile{imspdoc-xetex-bidi.def}[2017/06/09 v0.1 bidi adaptations for imspdoc class for
17892 \newenvironment{thebibliography}[1]{%
17893   \@bibtitlestyle
17894   \normalfont\bibliofont\labelsep .5em\relax
17895   \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
17896   \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
17897   \bidi@thebibliography@font@hook
17898   \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
17899     \leftmargin\labelwidth \advance\leftmargin\labelsep
17900     \usecounter{enumiv}}%
17901   \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
17902   \sfcode`\.=\@m
17903 }{%
17904   \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
17905   \endlist
17906 }
17907
17908 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
17909   \columnseprule\z@ \columnsep 35\p@
17910   \@indextitlestyle
17911   \thispagestyle{plain}%
17912   \let\item\@idxitem
17913   \parindent\z@ \parskip\z@\@plus.3\p@\relax
17914   \ifRTL\raggedleft\else\raggedright\fi
17915   \hyphenpenalty\@M
17916   \footnotesize}
17917 \def\@idxitem{\par\hangindent \ifRTL-\fi2em}
17918 \def\subitem{\par\hangindent \ifRTL-\fi2em\hspace*{1em}}
17919 \def\subsubitem{\par\hangindent \ifRTL-\fi3em\hspace*{2em}}
17920
17921 \def\right@footnoterule{%
17922   \kern-.4\p@
17923   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
17924   \kern11\p@\kern-\footnotesep}
17925 \def\left@footnoterule{\kern-.4\p@
17926   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
17927 \def\@makefnmark{%
17928   \leavevmode
17929   \raise.9ex\hbox{\fontsize\sf@size\z@\normalfont\@thefnmark}}%
17930 }
17931
17932 \def\part{\@startsection{part}{0}%
17933   \z@\linespacing\@plus\linespacing}{.5\linespacing}%
17934   {\normalfont\bfseries\ifRTL\raggedleft\else\raggedright\fi}}
17935 \def\@tocline#1#2#3#4#5#6#7{\relax
17936   \ifnum #1>\c@tocdepth % then omit
17937   \else
17938     \par \addpenalty\@secpenalty\addvspace{#2}%
17939     \begingroup \hyphenpenalty\@M
17940     \@ifempty{#4}{%
17941       \@tempdima\csname r@tocindent\number#1\endcsname\relax
17942       }{%

```



```

17943     \@tempdima#4\relax
17944   }%
17945   \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\
17946   \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
17947   #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
17948   \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
17949   \nobreak
17950   \endgroup
17951 \fi}
17952 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
17953 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
17954 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
17955 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
17956 \def\maketitle{\par
17957   \@topnum\z@ % this prevents figures from falling at the top of page 1
17958   \@setcopyright
17959   \thispagestyle{firstpage}% this sets first page specifications
17960   \uppercasenonmath\shorttitle
17961   \ifx\@empty\shortauthors \let\shortauthors\shorttitle
17962   \else \andify\shortauthors
17963   \fi
17964   \@maketitle@hook
17965   \begingroup
17966   \@maketitle
17967   \toks@\@xp{\shortauthors}\@temptokena\@xp{\shorttitle}%
17968   \toks4{\def\\{\ignorespaces}}% defend against questionable usage
17969   \edef\@tempa{%
17970     \@nx\markboth{\the\toks4
17971       \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
17972   \@tempa
17973   \endgroup
17974   \c@footnote\z@
17975   \@cleartopmattertags
17976 }

```

104 File leqno-xetex-bidi.def

```

17977 \ProvidesFile{leqno-xetex-bidi.def}[2018/01/07 v0.2 bidi adaptations for leqno tag for XeTeX]
17978 \renewcommand\@eqnnum{\hbxt@.01\p{}}%
17979     \rlap{\hskip -\displaywidth
17980     {\normalfont\normalcolor\if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}

```

105 File letter-xetex-bidi.def

```

17981 \ProvidesFile{letter-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for standard letter class]
17982 \renewcommand*\opening[1]{\ifx\@empty\fromaddress
17983   \thispagestyle{firstpage}%
17984   {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
17985   \else % home address
17986     \thispagestyle{empty}%
17987     {\if@RTL\raggedright\else\raggedleft\fi\if@RTL\begin{tabular}{r{}}\else\begin{tabular}{l{}}
17988       \fromaddress \\*[2\parskip]%
17989       \@date \end{tabular}\par}%
17990   \fi

```




```

17991 \vspace{2\parskip}%
17992 {\if@RTL\raggedleft\else\raggedright\fi \toname \ \toaddress \par}%
17993 \vspace{2\parskip}%
17994 #1\par\nobreak}
17995 \renewcommand\left@footnoterule{%
17996 \kern-\p@
17997 \hrule \@width .4\columnwidth
17998 \kern .6\p@}
17999 \renewcommand\right@footnoterule{%
18000 \kern-\p@
18001 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
18002 \kern .6\p@}

```

106 File lettrine-xetex-bidi.def

```

18003 \ProvidesFile{lettrine-xetex-bidi.def}[2024/12/08 v0.9 bidi adaptations for lettrine package]
18004 \RemoveFromHook{begindocument}[lettrine]
18005 \AtBeginDocument[lettrine]{%
18006 \if\DefaultOptionsFile\relax
18007 \else
18008 \InputIfFileExists{\DefaultOptionsFile}%
18009 {}%
18010 {\PackageWarning{lettrine.sty}%
18011 {File \DefaultOptionsFile\space not found}%
18012 }%
18013 \fi
18014 \let\ifL@RTL\if@RTL
18015 }

```

107 File lineno-xetex-bidi.def

```

18016 \ProvidesFile{lineno-xetex-bidi.def}[2024/12/07 v0.3 bidi adaptations for lineno package for]
18017 \bidi@patchcmd{\MakeLineNo}{%
18018 \hb@xt@\z@{\makeLineNumber}%
18019 }{%
18020 \hboxL to \z@{\makeLineNumber}%
18021 }{}{}
18022
18023 \bidi@patchcmd{\makeLineNumberLeft}{\LineNumber}{%
18024 \if@RTL
18025 \hb@xt@\linenumberwidth{\LineNumber\hss}%
18026 \else
18027 \LineNumber
18028 \fi
18029 }{}{}
18030
18031 \bidi@patchcmd{\makeLineNumberRight}{%
18032 \hb@xt@\linenumberwidth{\hss\LineNumber}%
18033 }{%
18034 \if@RTL
18035 \LineNumber
18036 \else
18037 \hb@xt@\linenumberwidth{\hss\LineNumber}%
18038 \fi

```



```

18039 }{}{}
18040
18041 \bidi@AfterPreamble{%
18042   \if@RTLmain
18043     \rightlinenumbers*
18044   \else
18045     \leftlinenumbers*
18046   \fi
18047   \@ifpackagewith{lineno}{left}{%
18048     \leftlinenumbers*
18049   }{}
18050   \@ifpackagewith{lineno}{right}{%
18051     \rightlinenumbers*
18052   }{}
18053   \@ifpackagewith{lineno}{switch}{%
18054     \if@RTLmain
18055       \switchlinenumbers*%
18056     \else
18057       \switchlinenumbers
18058     \fi
18059   }{}
18060   \@ifpackagewith{lineno}{switch*}{%
18061     \if@RTLmain
18062       \switchlinenumbers
18063     \else
18064       \switchlinenumbers*%
18065     \fi
18066   }{}
18067 }
18068

```

108 File listings-xetex-bidi.def

```

18069 \ProvidesFile{listings-xetex-bidi.def}[2025/01/03 v1.6 bidi adaptations for listings package]
18070 \lst@Key{captiondirection}{texdirection}{%
18071   \lstKV@SwitchCases{#1}%
18072   {texdirection:\\%
18073     RTL:\chardef\bidi@lst@caption@direction\@ne\\%
18074     LTR:\chardef\bidi@lst@caption@direction\z@%
18075   }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
18076
18077 \lst@Key{captionscript}{textscript}{%
18078   \lstKV@SwitchCases{#1}%
18079   {textscript:\\%
18080     latin:\chardef\bidi@lst@caption@script\@ne\\%
18081     nonlatin:\chardef\bidi@lst@caption@script\z@%
18082   }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
18083
18084 \newcommand*{\bidi@lst@ensure@caption@direction}[2]{%
18085   \@ifundefined{bidi@lst@caption@direction}{}{%
18086     \ifnum\bidi@lst@caption@direction=\z@%
18087       #1%
18088     \else%
18089       \ifnum\bidi@lst@caption@direction=\@ne%

```



```

18090             #2%
18091         \fi%
18092     \fi%
18093 }}
18094
18095 \newcommand*{\bidi@lst@ensure@caption@script}[2]{%
18096     \@ifundefined{bidi@lst@caption@script}{}{%
18097         \ifnum\bidi@lst@caption@script=\z@%
18098             #1%
18099         \else%
18100             \ifnum\bidi@lst@caption@script=\@ne%
18101                 #2%
18102             \fi%
18103         \fi%
18104 }}
18105
18106 \long\def\bidi@lst@makecaption#1#2{%
18107     \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
18108     \vskip\abovecaptionskip
18109     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18110     \sbox\@tempboxa{%
18111         \bidi@lst@ensure@caption@direction{\beginL}{\beginR}%
18112         #1: #2%
18113         \bidi@lst@ensure@caption@direction{\endL}{\endR}%
18114     }%
18115     \ifdim \wd\@tempboxa >\hsize
18116         #1: #2\par
18117     \else
18118         \global \@minipagefalse
18119         \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
18120     \fi
18121     \vskip\belowcaptionskip}%
18122 \def\lst@makecaption{\@bidi@lst@makecaption}
18123 \def\lst@maketitle{\@bidi@lst@makecaption\lst@title@dropdelim}
18124 \bidi@AtEndPreamble{%
18125     \bidi@patchcmd{\lst@MakeCaption}{%
18126         \ifx #1t%
18127             \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
18128                 \expandafter\refstepcounter
18129             \fi {lstlisting}}%
18130 }{%
18131     \ifx #1t%
18132         \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18133         \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
18134             \expandafter\refstepcounter
18135         \fi {lstlisting}%
18136         \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLfalse}%
18137     }{}{}%
18138 \bidi@patchcmd{\lst@MakeCaption}{%
18139     \addcontentsline{lol}{lstlisting}%
18140     {\protect\numberline{\thelstlisting}\lst@@caption}}%
18141 }{}%
18142 \begingroup%
18143     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%

```



```

18144             \addcontentsline{lol}{lstlisting}%
18145             {\protect\numberline{\thelstlisting}\lst@caption}%
18146 \endgroup%
18147 }{}{}%
18148 }
18149 \ApplyPatchIfPackageLoaded{caption}{%
18150   \AtBeginCaption{%
18151     \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
18152     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18153   }
18154   \let\@bidi@lst@makecaption\caption@makecaption%
18155   \def\lst@makecaption{\caption@starfalse\@bidi@lst@makecaption}%
18156   \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}%
18157 }{}%
18158 \AtBeginDocument{%
18159   \@ifundefined{captionlabelfalse}{}{}%
18160   \def\lst@maketitle{\captionlabelfalse\@bidi@lst@makecaption\@empty}}%
18161   \@ifundefined{caption@startrue}{}{}%
18162   \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}}%
18163 }{}%
18164 }
18165 \AtBeginDocument{
18166   \@ifundefined{thechapter}{\let\lst@ifnumberbychapter\iffalse}{}
18167   \lst@ifnumberbychapter
18168     \gdef\thelstlisting%
18169     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@lstlisting}
18170   \else
18171     \gdef\thelstlisting{\@arabic\c@lstlisting}
18172   \fi}

```

109 File longtable-xetex-bidi.def

```

18173 \ProvidesFile{longtable-xetex-bidi.def}[2025/01/05 v0.8 bidi adaptations for longtable packa
18174 \ExplSyntaxOn
18175 \def\LT@array[#1]#2{%
18176   \UseTaggingSocket{tbl/init}
18177   \tl_if_empty:eTF { \LTcaptive }
18178   {
18179     \tl_gset:Ne \@currentHref {LT@tables.\theHLT@tables}
18180   }
18181   {
18182     \@kernel@refstepcounter{\LTcaptive}\stepcounter{LT@tables}
18183     \tl_gset:Ne \@currentHref {\LTcaptive.\cs_if_exist_use:c {theH\LTcaptive}}
18184   }
18185   \tbl_gzero_row_count:
18186   \UseTaggingSocket{tbl/longtable/init}
18187   \if l#1%
18188     \if@RTLtab\LTleft\fill \LTright\z@\else\LTleft\z@ \LTright\fill\fi
18189   \else\if r#1%
18190     \if@RTLtab\LTleft\z@ \LTright\fill\else\LTleft\fill \LTright\z@\fi
18191   \else\if c#1%
18192     \LTleft\fill \LTright\fill
18193   \fi\fi\fi
18194   \let\LT@mcol\multicolumn

```



```

18195 \let\LT@@tabarray\@tabarray
18196 \let\LT@@hl\hline
18197 \def\@tabarray{%
18198   \let\hline\LT@@hl
18199   \LT@@tabarray}%
18200 \let\\LT@tabularcr
18201 \let\tabularnewline\\%
18202 \def\newpage{\noalign{\break}}%
18203 \def\pagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk-}4}%
18204 \def\nopagebreak{\noalign{\ifnum`}=0\fi\@testopt\LT@no@pgbk4}%
18205 \let\hline\LT@hline \let\kill\LT@kill\let\caption\LT@caption
18206 \@tempdima\ht\strutbox
18207 \let\@endpbox\LT@endpbox
18208 \ifx\extrarowheight\@undefined
18209   \let\@acol\@tabacol
18210   \let\@classz\@tabclassz \let\@classiv\@tabclassiv
18211   \def\@startpbox{\vtop\LT@startpbox}%
18212   \let\@@startpbox\@startpbox
18213   \let\@@endpbox\@endpbox
18214   \let\LT@LL@FM@cr\@tabularcr
18215 \else
18216   \advance\@tempdima\extrarowheight
18217   \col@sep\tabcolsep
18218   \let\@startpbox\LT@startpbox\let\LT@LL@FM@cr\@arraycr
18219 \fi
18220 \setbox\@arstrutbox\hbox{\vrule
18221   \@height \arraystretch \@tempdima
18222   \@depth \arraystretch \dp \strutbox
18223   \@width \z@}%
18224 \let\@sharp##\let\protect\relax
18225 \begingroup
18226 \mkpream{#2}%
18227 \tbl_count_table_cols:
18228 \xdef\LT@bchunk{%
18229   \tbl_inbetween_rows:
18230   \global\advance\c@LT@chunks\@ne
18231   \global\LT@rows\z@\setbox\z@\vbox\bgroup
18232   \LT@setprevdepth
18233   \tabskip\LTleft \noexpand\halign to\hsize\bgroup
18234   \tabskip\z@ \@arstrut
18235   \UseTaggingSocket{tbl/row/begin}%
18236   \tbl_init_cell_data_for_row:
18237   \@preamble \tabskip\LTRight \cr}%
18238 \endgroup
18239 \expandafter\LT@nofcols\LT@bchunk&\LT@nofcols
18240 \LT@make@row
18241 \m@th\let\par\@empty
18242 \everycr{%
18243   \noalign{%
18244     \__tbl_trace:n {--longtable-->~chunk-row:~ \the\LT@rows \space
18245       row:~ \the\g__tbl_row_int \space
18246       column:~ \the\g__tbl_col_int
18247     }
18248     \tbl_if_row_was_started:T

```



```

18249         {
18250             \UseTaggingSocket{tbl/row/end}
18251             \tbl_inbetween_rows:
18252         }
18253         \int_compare:nNtT \LT@rows < \LTchunksize
18254         { \tbl_gincr_row_count: } % next is row about to start
18255     }%
18256 }%
18257 \lineskip\z@\baselineskip\z@
18258 \LT@bchunk}
18259 \ExplSyntaxOff
18260 \def\LT@makecaption#1#2#3{%
18261     \LT@mcol\LT@cols c{\hbox to\z@{\hss\parbox[t]\LTcapwidth{%
18262         \reset@font
18263         \sbox\@tempboxa{\if@RTL\beginR\fi#1{#2: }#3\if@RTL\endR\fi}%
18264         \ifdim\wd\@tempboxa>\hsize
18265             #1{#2: }#3%
18266         \else
18267             \hbox to\hsize{\hfil\box\@tempboxa\hfil}%
18268         \fi
18269         \endgraf\vskip\baselineskip}%
18270     \hss}}}%
18271 \ApplyPatchCodeToPackage{caption}{%
18272     \renewcommand\LT@makecaption[3]{%
18273         \caption@LT@make{%
18274             \caption@LT@settype\LTcaptype
18275             \caption@LT@setup
18276             \caption@setautoposition{\ifcase\LT@rows t\else b\fi}%
18277             \caption@startrue#1\caption@starfalse
18278             \caption@prepare@stepcounter\LTcaptype
18279             \caption@begin\LTcaptype
18280             \caption@normalsize
18281             \vskip-\ht\strutbox
18282             \caption@ifdefined\FBifcapttop{%
18283                 \let\caption@belowskip\@empty}{}%
18284             \caption@make@above
18285             \caption@@make{#2}{#3}\endgraf
18286             \caption@make@below
18287             \caption@end}}}%
18288 }
18289 \def\LT@startpbox#1{%
18290     \bgroup
18291     \color@begingroup
18292     \let\@footnotetext\LT@p@ftntext
18293     \let\@LTRfootnotetext\LT@p@LTRftntext
18294     \let\@RTLfootnotetext\LT@p@RTLftntext
18295     \setlength\hsize{#1}%
18296     \@arrayparboxrestore
18297     \everypar{%
18298         \vrule \@height \ht\@arstrutbox \@width \z@
18299     }%
18300 }
18301 \long\def\LT@p@LTRftntext#1{%
18302     \edef\@tempa{\the\LT@p@ftn\noexpand\LTRfootnotetext[\the\c@footnote]}}%

```



```

18303 \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
18304 \long\def\LT@p@RTLftntext#1{%
18305 \edef\@tempa{\the\LT@p@ftn\noexpand\RTLfootnotetext[\the\c@footnote]}}%
18306 \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
18307 \def\LT@output{%
18308 \ifnum\outputpenalty <-\@Mi
18309 \ifnum\outputpenalty > -\LT@end@pen
18310 \LT@err{floats and marginpars not allowed in a longtable}\@ehc
18311 \else
18312 \setbox\z@\vbox{\unvbox\@cclv}%
18313 \ifdim \ht\LT@lastfoot>\ht\LT@foot
18314 \dimen@\pagegoal
18315 \advance\dimen@-\ht\LT@foot
18316 \advance\dimen@-\ht\LT@lastfoot
18317 \ifdim\dimen@<\ht\z@
18318 \setbox\@cclv\vbox{\unvbox\z@\copy\LT@foot\vss}%
18319 \@makecol
18320 \@outputpage
18321 \global\vsizel\colroom
18322 \setbox\z@\vbox{\box\LT@head}%
18323 \fi
18324 \fi
18325 \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
18326 \unvbox\z@\box\ifvoid\LT@lastfoot\LT@foot\else\LT@lastfoot\fi
18327 \UseTaggingSocket{tbl/longtable/foot}
18328 \if@RTLtab\egroup\endR\egroup\fi
18329 \fi
18330 \else
18331 \setbox\@cclv\vbox{%
18332 \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
18333 \unvbox\@cclv\copy\LT@foot\vss
18334 \if@RTLtab\egroup\endR\egroup\fi
18335 }%
18336 \UseTaggingSocket{tbl/longtable/foot}
18337 \@makecol
18338 \@outputpage
18339 \global\vsizel\colroom
18340 \copy\LT@head\nobreak
18341 \fi}

```

110 File `lscapexetex-bidi.def`

```

18342 \ProvidesFile{lscapexetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for lscapex package for
18343 \RequirePackage{graphicx}
18344 \bidi@patchcmd{\LS@rot}{\rotatebox{90}{\box\@outputbox}}{%
18345 \if@RTL
18346 \rotatebox[origin=br]{-90}{\box\@outputbox}%
18347 \else
18348 \rotatebox{90}{\box\@outputbox}%
18349 \fi
18350 }{}{}
18351
18352 \g@addto@macro{\landscape}{%
18353 \if@bidi@csdef{bidi@columnwidth}{%

```



```

18354 \bidi@columnwidth\columnwidth
18355 }{}%
18356 \let\bidi@left@footnoterule\left@footnoterule
18357 \let\bidi@right@footnoterule\right@footnoterule
18358 \def\left@footnoterule{%
18359 \if@RTL
18360 \bidi@right@footnoterule
18361 \else
18362 \bidi@left@footnoterule
18363 \fi
18364 }%
18365 \def\right@footnoterule{%
18366 \if@RTL
18367 \bidi@left@footnoterule
18368 \else
18369 \bidi@right@footnoterule
18370 \fi
18371 }%
18372 }

```

111 File mathtools-xetex-bidi.def

```

18373 \ProvidesFile{mathtools-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for mathtools packa
18374 \RequirePackage{graphicx}
18375 \MHInternalSyntaxOn
18376 \def\MT_define_tagform:nwnn #1[#2]#3#4{
18377 \@namedef{MT_tagform_#1:n}##1
18378 {\maketag@@@{\if@nonlatin\beginR\fi#3\kern\z@\ignorespaces#2{##1}\unskip\@@italiccorr#4}
18379 }
18380 \renewtagform{default}{\{()\}}
18381 \MHInternalSyntaxOff

```

112 File mdframed-xetex-bidi.def

```

18382 \ProvidesFile{mdframed-xetex-bidi.def}[2013/09/22 v0.4 bidi adaptations for mdframed package
18383 \newif\if@bidi@mdf@RTL
18384 \def\mdf@lrbox#1{%
18385 \mdf@patchamsthm\patch amsthm
18386 \if@RTL\@bidi@mdf@RTLtrue\fi%
18387 \@RTLfalse%
18388 \setbox#1\vbox\bgroup%
18389 \color@begingroup%
18390 \if@bidi@mdf@RTL\@RTLtrue\fi%
18391 \mdf@horizontalmargin@equation%
18392 \columnwidth=\hsize%
18393 \textwidth=\hsize%
18394 \let\if@nobreak\iffalse%
18395 \let\if@noskipsec\iffalse%
18396 \let\par\@@par%
18397 \let\-\@dischph%
18398 \let\'@acci\let`@accii\let\=\@acciii%
18399 \parindent\z@ \parskip\z@skip%
18400 \linewidth\hsize%
18401 \@totalleftmargin\z@%

```




```

18402 \leftskip\z@skip \rightskip\z@skip \@rightskip\z@skip%
18403 \parfillskip\@flushglue \lineskip\normallineskip%
18404 \baselineskip\normalbaselineskip%
18405 %% \sloppy%
18406 \let\\\@normalcr%
18407 \mdf@par@local%New feature to restore parskip/parindent local in save box
18408 \ifbool{mdf@suppressfirstparskip}{\vspace*{-\parskip}}{}%
18409 \@afterindentfalse%
18410 %\@afterheading%
18411 }
18412 \renewrobustcmd\mdfframedtitleenv[1]{%
18413 \mdf@lrbox{\mdf@frametitlebox}%
18414 \mdf@frametitlealignment%
18415 \leavevmode{\color{\mdf@frametitlefontcolor}%
18416 \normalfont\mdf@frametitlefont{#1}
18417 \ifbool{mdf@ignorelastdescenders}%
18418 {%
18419 \par\strut\par
18420 \unskip\unskip\setbox0=\lastbox
18421 \vspace*{\dimexpr\ht\strutbox-\baselineskip\relax}%
18422 }{}}%
18423 \par\unskip\ifvmode\nointerlineskip\hrule \@height\z@ \@width\hsize\fi%%
18424 \endmdf@lrbox\relax%
18425 \mdf@ignoreevbadness%
18426 \setbox\mdf@frametitlebox=\vbox{\unvbox\mdf@frametitlebox}%
18427 \mdfframetitleboxwidth=\wd\mdf@frametitlebox\relax%
18428 \mdfframetitleboxheight=\ht\mdf@frametitlebox\relax%
18429 \mdfframetitleboxdepth=\dp\mdf@frametitlebox\relax%
18430 \mdfframetitleboxtotalheight=\dimexpr
18431 \ht\mdf@frametitlebox
18432 +\dp\mdf@frametitlebox%
18433 +\mdf@frametitleaboveskip@length
18434 +\mdf@frametitlebelowskip@length
18435 \relax%
18436 }
18437
18438 \renewrobustcmd*\mdf@footnoteoutput{%
18439 \ifvoid\@mpfootins\else%
18440 \nobreak%
18441 \vskip\mdf@footnotedistance@length%
18442 \normalcolor%
18443 \bidi@mpfootnoterule%
18444 \unvbox\@mpfootins%
18445 \fi%
18446 }
18447
18448
18449 \renewrobustcmd*\mdf@footnoteinput{%
18450 \def\@mpfn{\mpfootnote}%
18451 \def\thempfn{\thempfootnote}%
18452 \c@mpfootnote\z@%
18453 \let\@footnotetext\@mpfootnotetext%
18454 \let\@LTRfootnotetext\@mpLTRfootnotetext%
18455 \let\@RTLfootnotetext\@mpRTLfootnotetext%

```



18456 }

113 File media9-xetex-bidi.def

18457 \ProvidesFile{media9-xetex-bidi.def}[2025/01/03 v0.1 bidi adaptations for media9 package for
18458 \RequirePackage{bidi-media9}

114 File bidi-media9.sty

```
18459 \ProvidesExplPackage{bidi-media9}{2022/02/18}{0.4}
18460 {bidi fixes for media9 package for the XeTeX engine}
18461
18462 \keys_define:nn{media9/mbtn}{
18463   draft .code:n = {},
18464   final .code:n = {},
18465
18466   tooltip .tl_gset_x:N = \g_mix_tooltip_tl,
18467   tooltip .value_required:n = {true},
18468
18469   overface .code:n = {
18470     \sbox\l_mix_poster_box{
18471       \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
18472       \mix_pdfxform:n{\l_mix_poster_box}
18473       \tl_gset:Nx\g_mix_overbtn_tl{\mix_pdflastxform:}
18474     },
18475     overface .value_required:n = {true},
18476
18477     downface .code:n = {
18478       \sbox\l_mix_poster_box{
18479         \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
18480         \mix_pdfxform:n{\l_mix_poster_box}
18481         \tl_gset:Nx\g_mix_downbtn_tl{\mix_pdflastxform:}
18482       },
18483       downface .value_required:n = {true},
18484
18485       3Dgotoview .code:n = {
18486         \tl_set:Nx\l_tmpa_tl{#1} %extract ref
18487         \regex_replace_once:nnN{([~:]+)??.*}{\1}\l_tmpa_tl
18488         \tl_trim_spaces:N\l_tmpa_tl
18489         \tl_if_exist:cTF{ann@\l_tmpa_tl}{
18490           \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
18491             \tl_set:Nx\l_tmpb_tl{#1} %extract idx
18492             \regex_replace_once:nnN{[~:]+:?.*}{\1}\l_tmpb_tl
18493             \tl_trim_spaces:N\l_tmpb_tl
18494             \tl_if_blank:VF\l_tmpb_tl{
18495               \regex_match:nVTF{^[DFLNP]$}\l_tmpb_tl{
18496                 \tl_set:Nx\l_mix_vidx_tl{/}\l_tmpb_tl
18497               }{
18498                 \regex_match:nVTF{^~\d+}$}\l_tmpb_tl{
18499                   \tl_set:Nx\l_mix_vidx_tl{~}\l_tmpb_tl
18500                 }{
18501                   \regex_replace_once:nnN{^(\s*)}{\1}\l_tmpb_tl
18502                   \regex_replace_once:nnN{(s*)}$}{\1}\l_tmpb_tl
18503                   \tl_set:Nx\l_mix_vidx_tl{~(\1\l_tmpb_tl)}
```



```

18504     }
18505   }
18506 }
18507 \mix_pdfobj:nnn(){dict}{
18508   /S/JavaScript/JS~(
18509     if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18510     if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18511       annotRM['\l_tmpa_tl']=
18512       this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
18513     }
18514     annotRM['\l_tmpa_tl'].activated=true;
18515   )
18516   \tl_if_blank:VF\l_tmpb_tl{
18517     /Next~<<
18518     /S/GoTo3DView
18519     /TA~\tl_use:c{ann@\l_tmpa_tl}
18520     /V\l_mix_vidx_tl
18521     >>
18522   }
18523 }
18524 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
18525 }
18526 }{
18527   \msg_warning:nnx{media9}{undefined~reference}{\l_tmpa_tl}
18528   \cs_if_exist:NF\g_mix_refundefwarned_tl{
18529     \tl_new:N\g_mix_refundefwarned_tl
18530     \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
18531   }
18532 }
18533 },
18534 3Dgotoview .value_required:n = {true},
18535
18536 mediacommand .code:n = {
18537   \tl_set:Nx\l_tmpa_tl{#1}
18538   \regex_replace_once:nnN{([~:~]+):??.*}{\1}\l_tmpa_tl %extract ref
18539   \tl_trim_spaces:N\l_tmpa_tl
18540   \tl_if_exist:cTF{ann@\l_tmpa_tl}{
18541     \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
18542       \tl_set:Nx\l_tmpb_tl{#1}
18543       \regex_replace_once:nnN{([~:~]+~:~?){}\1}\l_tmpb_tl
18544       \tl_trim_spaces:N\l_tmpb_tl
18545       \regex_replace_all:nnN{^~\{|\}\$}{~}\l_tmpb_tl
18546       \tl_set:Nx\l_mix_cmd_tl{
18547         \exp_after:wN\mix_separate_cmd_from_actn:w\l_tmpb_tl[]\q_stop}
18548       \tl_trim_spaces:N\l_mix_cmd_tl
18549       \tl_set:Nx\l_mix_arg_tl{
18550         \exp_after:wN\mix_separate_arg_from_actn:w\l_tmpb_tl[]\q_stop}
18551       \tl_trim_spaces:N\l_mix_arg_tl
18552       \mix_pdfobj:nnn(){dict}{
18553         /S/JavaScript/JS~(
18554           if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18555           if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18556             annotRM['\l_tmpa_tl']=
18557             this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');

```



```

18558         }
18559         annotRM['\l_tmpa_tl'].activated=true;
18560     )
18561     \tl_if_blank:VF\l_mix_cmd_tl{
18562         /Next~<<
18563         /S/RichMediaExecute
18564         /TA~\tl_use:c{ann@\l_tmpa_tl}
18565         /TI~\tl_use:c{main@\l_tmpa_tl}
18566         /CMD~<<
18567         /C~(\l_mix_cmd_tl)
18568         \tl_if_blank:VF\l_mix_arg_tl{
18569             /A~[\l_mix_arg_tl]
18570         }
18571         >>
18572     >>
18573     }
18574 }
18575 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
18576 }
18577 }{
18578     \msg_warning:nnx{media9}{undefined~reference}{\l_tmpa_tl}
18579     \cs_if_exist:NF\g_mix_refundefwarned_tl{
18580         \tl_new:N\g_mix_refundefwarned_tl
18581         \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
18582     }
18583 }
18584 },
18585 mediacommand .value_required:n = {true},
18586
18587 jsaction .code:n = {
18588     \tl_set:Nx\l_tmpa_tl{#1}
18589     \regex_match:nVTF{^[^{}:]+.*$}\l_tmpa_tl{
18590         \regex_replace_once:nnN{([{}:]+):??.*}{\1}\l_tmpa_tl %extract ref
18591         \tl_trim_spaces:N\l_tmpa_tl
18592     }{\tl_clear:N\l_tmpa_tl}
18593     \tl_set:Nx\l_tmpb_tl{#1}
18594     \tl_if_blank:VF\l_tmpa_tl{
18595         \tl_if_exist:cF{ann@\l_tmpa_tl}{
18596             \msg_warning:nnx{media9}{undefined~reference}{\l_tmpa_tl}
18597             \cs_if_exist:NF\g_mix_refundefwarned_tl{
18598                 \tl_new:N\g_mix_refundefwarned_tl
18599                 \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
18600             }
18601         }
18602         \regex_replace_once:nnN{[^:]+\.:}{\1}\l_tmpb_tl
18603     }
18604     \tl_set:Nx\l_tmpb_tl{\exp_after:wN\use:n\l_tmpb_tl}
18605     \tl_trim_spaces:N\l_tmpb_tl
18606     \tl_if_blank:VF\l_tmpb_tl{
18607         \mix_pdfobj:nnn{}{dict}{
18608             /S/JavaScript/JS~(
18609                 try{\l_tmpb_tl}catch(e){console.show();console.println(e)}}}
18610     \bool_lazy_and:nnT{
18611         \tl_if_exist_p:c{ann@\l_tmpa_tl}

```



```

18612   }{
18613   !\str_if_eq_p:ee{\tl_use:c{ann@l_tmpa_tl}}{draft}
18614   }{
18615   \mix_pdfobj:nnn{}{dict}{
18616   /S/JavaScript/JS~(
18617   if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18618   if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18619   annotRM['\l_tmpa_tl']=
18620   this.getAnnotRichMedia(\tl_use:c{page@l_tmpa_tl},'\l_tmpa_tl');
18621   }
18622   annotRM['\l_tmpa_tl'].activated=true;
18623   )
18624   \tl_if_blank:VF\l_tmpb_tl{/Next~\mix_pdflastobj:}
18625   }
18626   }
18627   \bool_if:nT{
18628   \bool_lazy_and_p:nn{
18629   \tl_if_exist_p:c{ann@l_tmpa_tl}
18630   }{
18631   !\str_if_eq_p:ee{\tl_use:c{ann@l_tmpa_tl}}{draft}
18632   }
18633   || !\tl_if_blank_p:V\l_tmpb_tl
18634   }{
18635   \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
18636   }
18637   },
18638   jsaction .value_required:n = {true},
18639
18640   unknown .code:n = {
18641   \msg_error:nnx{media9}{unknown~option}{\l_keys_key_tl}
18642   }
18643 }
18644
18645 \RenewDocumentCommand\includemedia{O{}mm}{%#1 options, #2 text/image #3 media file
18646 \mix_uriend:
18647 \group_begin:
18648 \mix_beginLTR:
18649 \mode_leave_vertical:
18650 %empty stream as appearance dummy
18651 \cs_if_exist:NF\g_mix_appearance_tl{
18652 \hbox_set:Nn\l_mix_poster_box{\phantom{\rule{1pt}{1pt}}}
18653 \mix_pdfxform:n{\l_mix_poster_box}
18654 \tl_gset:Nx\g_mix_appearance_tl{\mix_pdflastxform:}
18655 }
18656 \mix_reset:
18657 \mix_urbegin: %treat URI characters correctly
18658 \keys_set:nn{media9/user}{#1}
18659 \mix_uriend:
18660 \tl_greplace_all:Nnn\g_mix_flashvars_tl{~&}{&}
18661 \tl_greplace_all:Nnn\g_mix_flashvars_tl{&~}{&}
18662 \tl_greplace_all:Nnn\g_mix_flashvars_tl{~=}{=}
18663 \tl_greplace_all:Nnn\g_mix_flashvars_tl{=~}{=}
18664 \tl_gtrim_spaces:N\g_mix_flashvars_tl
18665

```



```

18666 \cs_if_exist:NT\Ginput@path{\cs_set_eq:NN\input@path\Ginput@path}
18667
18668 %\hbox_set:Nn\l_mix_poster_box{\group_begin:#2\group_end:}
18669 %\hbox_set:Nn\l_mix_poster_box{#2}
18670 \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
18671 \mix_scale:n{\l_mix_poster_box}
18672 \bool_if:nT{
18673   \dim_compare_p:n{\g_mix_tt_tl=\c_zero_dim}||
18674   \dim_compare_p:n{\g_mix_wd_tl=\c_zero_dim}
18675 }{
18676   \tl_gset:Nn\g_mix_usrpbtn_tl{none}
18677 }
18678 \bool_if:NTF\g_mix_usrdraft_bool{
18679   \tl_if_empty:NF\g_mix_usrlabel_tl{
18680     \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{draft}
18681   }
18682   \tl_if_blank:oTF{#2}{
18683     \mix_uribegin: %treat URI characters correctly
18684     \mix_draftbox:n{\tl_to_str:n{#3}}
18685     \mix_uriend:
18686   }{
18687     \hbox_to_wd:nn{\g_mix_wd_tl}{
18688       \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl
18689       \box_use:N\l_mix_poster_box\hss
18690     }
18691   }
18692 }{
18693   \bool_if:nF{\str_if_eq_p:Vn\g_mix_usrpbtn_tl{none}}{
18694     %attach script that switches off play button overlay upon activation
18695     \mix_pdfobj:nnn{}{stream}{
18696       {}{
18697         var~ocgs=host.getOCGs(host.pageNum);
18698         for(var~i=0;i<ocgs.length;i++){
18699           if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
18700             ocgs[i].state=false;
18701           }
18702         }
18703       }
18704     }
18705     \mix_pdfobj:nnn{}{dict}{
18706       /Type/Filespec/EF~<</F~\mix_pdflastobj:>>/F~(btnoff)%/UF~(btnoff)
18707     }
18708     \tl_gset:Nx\g_mix_assets_tl{(btnoff)~\mix_pdflastobj:}
18709     \tl_set:Nx\l_mix_scripts_tl{~\mix_pdflastobj:~}
18710     %enforce plain playbutton overlay for XeTeX
18711     \sys_if_engine_xetex:T{\tl_gset:Nn\g_mix_usrpbtn_tl{plain}}
18712   }
18713   %embed main asset
18714   \mix_uribegin:
18715   \mix_embedasset:n{#3}
18716   \bool_if:nTF{
18717     \str_if_eq_p:Vn\l_mix_ext_tl{prc}||\str_if_eq_p:Vn\l_mix_ext_tl{u3d}
18718   }{
18719     \bool_gset_true:N\g_mix_iiid_bool

```



```

18720     \tl_gset:Nn\g_mix_mainassetssub_tl{3D}
18721   }{
18722     \str_case_e:nnF{\l_mix_base_tl}{
18723       {APlayer}{\tl_gset:Nn\g_mix_mainassetssub_tl{Sound}}
18724       {AudioPlayer}{\tl_gset:Nn\g_mix_mainassetssub_tl{Sound}}
18725       {VPlayer}{\tl_gset:Nn\g_mix_mainassetssub_tl{Video}}
18726       {VideoPlayer}{\tl_gset:Nn\g_mix_mainassetssub_tl{Video}}
18727       {StrobeMediaPlayback}{\tl_gset:Nn\g_mix_mainassetssub_tl{Video}}
18728     }{\tl_gset:Nn\g_mix_mainassetssub_tl{Flash}}
18729   }
18730   \tl_gset:Nx\g_mix_mainasset_tl{~\g_mix_lastasset_tl}
18731   \mix_urriend:
18732   %secondary assets (added by addresource)
18733   \seq_map_function:NN\g_mix_res_seq\mix_embedasset:n
18734   \seq_map_inline:Nn\g_mix_script_seq{
18735     \mix_embedasset:n{##1}
18736     \tl_put_right:Nx\l_mix_scripts_tl{~\g_mix_lastasset_tl}
18737   }
18738   %attach 3D calculation script
18739   \bool_if:nT{\g_mix_iiid_bool && \g_mix_iiidcalc_bool}{
18740     \mix_embedasset:n{3Dmenu.js}
18741     \tl_put_left:Nx\l_mix_scripts_tl{\g_mix_lastasset_tl~}
18742   }
18743   %create 3D views from file (option 3Dviews)
18744   \bool_if:nT{\g_mix_iiid_bool && !(\tl_if_blank_p:V\g_mix_vfile_tl)}{
18745     \tl_set:Nn\l_mix_level_tl{-1}
18746     \int_zero:N\l_mix_viewcnt_int
18747     \int_zero:N\l_mix_lineno_int
18748
18749     \ior_open:Nn\l_mix_vfile_stream{\g_mix_vfile_tl}
18750     \ior_map_inline:Nn\l_mix_vfile_stream{
18751       \int_incr:N\l_mix_lineno_int
18752       \keys_set:nn{media9/views}{##1} %process input line
18753     }
18754     \ior_close:N\l_mix_vfile_stream
18755   }
18756   \bool_if:nT{ %create default 3D view if required
18757     \g_mix_iiid_bool &&
18758     (\g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl)
18759   }{
18760     \tl_set_eq:NN\l_mix_bg_tl\g_mix_opt_bg_tl
18761     \tl_set_eq:NN\l_mix_ls_tl\g_mix_opt_ls_tl
18762     \tl_set_eq:NN\l_mix_rm_tl\g_mix_opt_rm_tl
18763     \tl_set_eq:NN\l_mix_psob_tl\g_mix_opt_psob_tl
18764     \tl_set_eq:NN\l_mix_coo_tl\g_mix_opt_coo_tl
18765     \tl_set_eq:NN\l_mix_ctoc_tl\g_mix_opt_ctoc_tl
18766     \tl_set_eq:NN\l_mix_ciiw_tl\g_mix_opt_ciiw_tl
18767
18768     \fp_set_eq:NN\l_mix_roo_fp\g_mix_opt_roo_fp
18769     \fp_set_eq:NN\l_mix_aac_fp\g_mix_opt_aac_fp
18770     \fp_set_eq:NN\l_mix_oscale_fp\g_mix_opt_oscale_fp
18771     \fp_set_eq:NN\l_mix_roll_fp\g_mix_opt_roll_fp
18772
18773     \bool_set_eq:NN\l_mix_ciiw_bool\g_mix_opt_ciiw_bool

```



```

18774 \bool_set_eq:NN\l_mix_iiidortho_bool\g_mix_opt_iiidortho_bool
18775 \tl_clear:N\l_mix_naarray_tl
18776
18777 \bool_if:NF\l_mix_ciiw_bool{
18778   \tl_set:Nx\l_mix_args_tl{\l_mix_coo_tl\space\l_mix_ctoc_tl\space}
18779   \exp_after:wN\mix_calc_ciiw:w\l_mix_args_tl\q_stop
18780 }
18781
18782 \tl_clear:N\l_mix_naarray_tl
18783 \tl_clear:N\l_mix_saarray_tl
18784 \tl_set_eq:NN\l_mix_nr_tl\g_mix_nrdflt_tl
18785
18786 \mix_view:n{Default}
18787 \tl_set:Nx\l_mix_dfltview_tl{\mix_pdflastobj:}
18788
18789 }
18790 \mix_pdfobj:nnn{}{dict}{
18791   /Type/RichMediaInstance
18792   /Subtype/\g_mix_mainassetsub_tl
18793   /Asset~\g_mix_mainasset_tl
18794   \bool_if:NF\g_mix_iiid_bool{
18795     /Params~<<
18796     /Binding\str_if_eq:VnTF\g_mix_transp_tl{true}{
18797       /Foreground
18798     }{
18799       /Background
18800     }
18801     \tl_if_blank:VF\g_mix_flashvars_tl{
18802       /FlashVars~(\g_mix_flashvars_tl)
18803     }
18804     >>
18805   }
18806 }
18807 \tl_if_empty:NF\g_mix_usrlabel_tl{
18808   \mix_keytoaux_now:nn{main@\g_mix_usrlabel_tl}{\mix_pdflastobj:}
18809 }
18810 \mix_pdfobj:nnn{}{dict}{
18811   /Type/RichMediaConfiguration
18812   /Subtype/\g_mix_mainassetsub_tl
18813   /Instances~[\mix_pdflastobj:]
18814 }
18815 \mix_pdfobj:nnn{}{dict}{
18816   /Type/RichMediaContent
18817   /Assets~<</Names~[\g_mix_assets_tl]>>
18818   /Configurations~[\mix_pdflastobj:]
18819   \bool_if:nT{
18820     \g_mix_iiid_bool && !(\tl_if_empty_p:V\l_mix_iiidviewarray_tl)
18821   }{
18822     /Views~[\l_mix_iiidviewarray_tl]
18823   }
18824 }
18825 \tl_set:Nx\l_mix_content_tl{\mix_pdflastobj:}
18826 \bool_if:nT{
18827   \g_mix_iiid_bool && \str_if_eq_p:Vn\g_mix_playtpe_tl{Oscillating}

```




```

18828     }{
18829         \tl_gset:Nx\g_mix_playcnt_tl{\int_eval:n{\g_mix_playcnt_tl*2}}
18830     }
18831     %determine floating window size
18832     \bool_if:NT\g_mix_opt_windowed_bool{
18833         \exp_after:wN\mix_parse_winsizearg:w\g_mix_winsize_tl\q_stop
18834     }
18835     \mix_pdfobj:nnn{}{dict}{
18836         /Activation~<<
18837         /Condition\g_mix_act_tl
18838         \bool_if:nT{
18839             \g_mix_iiid_bool &&
18840             !(\str_if_eq_p:Vn\g_mix_playtpe_tl{None})
18841         }{%seems to work only with 3D content
18842             /Animation~<<
18843             /Subtype/\g_mix_playtpe_tl
18844             /PlayCount~\g_mix_playcnt_tl
18845             /Speed~\g_mix_playspd_tl
18846             >>
18847         }
18848         \bool_if:nT{
18849             \g_mix_iiid_bool && (
18850                 \g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl
18851             )
18852         }{/View~\l_mix_dfltview_tl}
18853         /Presentation~<<
18854         /Transparent~\g_mix_transp_tl
18855         \bool_if:NTF\g_mix_opt_windowed_bool{
18856             /Style/Windowed
18857             /Window~<<
18858             /Width~<</Default~\tl_mix_fltd>>
18859             /Height~<</Default~\tl_mix_fltht>>
18860             /Position~<<
18861             /HOffset~0/VOffset~0
18862             \str_case_e:nnF{\g_mix_winpos_tl}{
18863                 {tl}{/VAlign/Near/HAlign/Near}
18864                 {cl}{/VAlign/Center/HAlign/Near}
18865                 {bl}{/VAlign/Far/HAlign/Near}
18866                 {bc}{/VAlign/Far/HAlign/Center}
18867                 {br}{/VAlign/Far/HAlign/Far}
18868                 {cr}{/VAlign/Center/HAlign/Far}
18869                 {tr}{/VAlign/Near/HAlign/Far}
18870                 {tc}{/VAlign/Near/HAlign/Center}
18871             }{/HAlign/Center/VAlign/Center}
18872             >>
18873         }
18874     }{
18875         /Style/Embedded
18876     }
18877     \bool_if:NTF\g_mix_iiid_bool{
18878         /Toolbar~\g_mix_tools_tl
18879         /NavigationPane~\g_mix_nav_tl
18880     }{
18881         /PassContextClick~\g_mix_contextclick_tl

```



```

18882     }
18883     >>
18884     \tl_if_blank:VF\l_mix_scripts_tl{/Scripts~[\l_mix_scripts_tl]}
18885     >>
18886     /Deactivation~<</Condition\g_mix_deact_tl>>
18887   }
18888   \tl_set:Nx\l_mix_settings_tl{\mix_pdflastobj:}
18889   \tl_if_empty:NF\g_mix_usrlabel_tl{
18890     \tl_gset_eq:NN\g_mix_label_tl\g_mix_usrlabel_tl
18891   }
18892   % #1:width, #2:height, #3:depth, #4:content (key-value)
18893   \mix_pdfannot:nnnn{\g_mix_wd_tl}{\g_mix_ht_tl}{\g_mix_dp_tl}{
18894     /Subtype/RichMedia
18895     /F~4
18896     /BS~<</W~0/S/S>>
18897     /Contents~(media~embedded~by~media9~[\g_mix_version_tl~(\g_mix_date_tl)])
18898     /NM~(\g_mix_label_tl)
18899     /AP~<</N~\g_mix_appearance_tl>>
18900     /RichMediaSettings~\l_mix_settings_tl
18901     /RichMediaContent~\l_mix_content_tl
18902   }
18903   \tl_if_empty:NF\g_mix_usrlabel_tl{
18904     \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{\mix_pdflastann:}
18905     \mix_keytoaux_shipout:nn{page@\g_mix_usrlabel_tl}{
18906       \noexpand\the\g@mix@page@int}
18907   }
18908   \mix_pdfobj:nnn{}{dict}{
18909     /S/JavaScript/JS~(
18910       try{
18911         if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18912         if(typeof(annotRM['\g_mix_label_tl'])=='undefined'){
18913           annotRM['\g_mix_label_tl']=
18914             this.getAnnotRichMedia(this.pageNum,'\g_mix_label_tl');
18915         }
18916         \str_if_eq:eeF{\g_mix_usrpbtn_tl}{none}{
18917           if(typeof(ocgBtn\int_use:N\g_mix_rmcnt_int)=='undefined'){
18918             var~ocgs=this.getOCGs(this.pageNum);
18919             for(var~i=0;i<ocgs.length;i++){
18920               if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
18921                 var~ocgBtn\int_use:N\g_mix_rmcnt_int=ocgs[i];
18922               }
18923             }
18924           }
18925           if(
18926             !annotRM['\g_mix_label_tl'].activated&&(
18927               app.viewerType=='Reader' ||
18928               app.viewerType=='Exchange' ||
18929               app.viewerType=='Exchange-Pro'
18930             )&&app.viewerVersion>=9
18931           ){
18932             ocgBtn\int_use:N\g_mix_rmcnt_int.state=true;
18933           }
18934         }
18935       }catch(e){}

```



```

18936         this.dirty=false;
18937     )
18938 }
18939 \mix_pdfannot:nnnn{Opt}{Opt}{Opt}{
18940     /Subtype/Widget
18941     /FT/Btn/Ff~65537/F~2
18942     /BS~<</W~0>>
18943     /T~(fd@g_mix_label_tl)
18944     /AA~<</PO~\mix_pdflastobj:~/PV~\mix_pdflastobj:>>
18945 }
18946 \mix_appendtofields:n{\mix_pdflastann:}
18947 \hbox_overlap_right:n{\box_use:N\l_mix_poster_box}
18948 \str_if_eq:eeTF{\g_mix_usrpbtn_tl}{none}{
18949     \hbox_to_wd:nn{\g_mix_wd_tl}{
18950         \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl\hss
18951     }
18952 }{%insert play button overlay
18953     \mix_insert_btnocg: %create OCG
18954     \cs_gset_eq:Nc\mix_pbtn:NN{g@mix@pbtn@g_mix_usrpbtn_tl @tl}
18955     \group_begin:
18956     \cs_if_exist:NT\textdir{\textdir TLT}
18957     \sbox\l_mix_pbtn_box{\mix_pbtn:NN\g_mix_wd_tl\g_mix_tt_tl}
18958     \box_move_down:nn{\g_mix_dp_tl}{
18959         \hbox_to_wd:nn{\g_mix_wd_tl}{
18960             \vbox_to_ht:nn{\g_mix_tt_tl}{
18961                 \vss
18962                 \ocgbase_oc_bdc:n{\g_mix_btnocg_tl}
18963                 \box_use:N\l_mix_pbtn_box
18964                 \ocgbase_oc_emc:
18965             }
18966         }
18967     }
18968     \group_end:
18969 }
18970 \int_gincr:N\g_mix_rmcnt_int
18971 }
18972 \mix_endLTR:
18973 \group_end:
18974 }
18975 \tl_set_eq:NN\l_mix_includemedia_tl\includemedia
18976 \tl_set:Nn\includemedia{\mix_uribegin:\l_mix_includemedia_tl}
18977
18978 \RenewDocumentCommand\mediabutton{0{m}}{%#1 options, #2 normal button text
18979     \mix_uribend:
18980     \group_begin:
18981     \mix_beginLTR:
18982     \mode_leave_vertical:
18983     %reset various variables
18984     \tl_gclear:N\g_mix_overbtn_tl
18985     \tl_gclear:N\g_mix_downbtn_tl
18986     \tl_gclear:N\g_mix_btnactions_tl
18987     \tl_gclear:N\g_mix_tooltip_tl
18988     %process options
18989     \bool_gset_eq:NN\g_mix_btndraft_bool\g_mix_pkgdraft_bool

```



```

18990 \mix_uribegin: %treat URI characters correctly
18991 \keys_set:nn{media9/mbtndraft}{#1} %detect draft/final on first pass
18992 \bool_if:NF\g_mix_btndraft_bool{\keys_set:nn{media9/mbtn}{#1}}
18993 \mix_uridend:
18994 %normal button appearance
18995 %\hbox_set:Nn\l_mix_poster_box{#2}
18996 \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
18997 \tl_set:Nx\width {\dim_use:N\box_wd:N\l_mix_poster_box}
18998 \tl_set:Nx\height{\dim_use:N\box_ht:N\l_mix_poster_box}
18999 \tl_set:Nx\depth {\dim_use:N\box_dp:N\l_mix_poster_box}
19000 \bool_if:NTF\g_mix_btndraft_bool{\box_use:N\l_mix_poster_box}{
19001 \sbox\l_mix_poster_box{\bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{
19002 \box_use:N\l_mix_poster_box}}{\box_use:N\l_mix_poster_box}}
19003 \mix_pdfxform:n{\l_mix_poster_box}
19004 \tl_set:Nx\g_mix_normalbtn_tl{\mix_pdflastxform:}
19005 %insert widget annotation
19006 \mix_pdfannot:nnnn{\width}{\height}{\depth}{
19007 /Subtype/Widget
19008 /T~(mbtn@int_use:N\g_mix_mbtncnt_int)
19009 \tl_if_empty:NF\g_mix_tooltip_tl{TU~(\g_mix_tooltip_tl)}
19010 /FT/Btn/Ff~65536
19011 \tl_if_empty:NTF\g_mix_downbtn_tl{H/I}{H/P}
19012 /AP~<<
19013 /N~\g_mix_normalbtn_tl
19014 \tl_if_empty:NF\g_mix_overbtn_tl{R~\g_mix_overbtn_tl}
19015 \tl_if_empty:NF\g_mix_downbtn_tl{D~\g_mix_downbtn_tl}
19016 >>
19017 /MK~<<
19018 /TP~1~/IF~<</S/A/FB~true/A~[0.0~0.0]>>
19019 /I~\g_mix_normalbtn_tl
19020 \tl_if_empty:NF\g_mix_overbtn_tl{RI~\g_mix_overbtn_tl}
19021 \tl_if_empty:NF\g_mix_downbtn_tl{IX~\g_mix_downbtn_tl}
19022 >>
19023 /A~<<
19024 /S/JavaScript/JS~(app.focusRect=false;)
19025 %sequence of actions to perform
19026 \tl_if_empty:NF\g_mix_btnactions_tl{Next~[\g_mix_btnactions_tl]}
19027 >>
19028 }
19029 \mix_appendtofields:n{\mix_pdflastann:}
19030 \hbox_to_wd:nn{\width}{
19031 \vrule~width~\c_zero_dim~height~\height~depth~\hss
19032 }
19033 \int_gincr:N\g_mix_mbtncnt_int
19034 }
19035 \mix_endLTR:
19036 \group_end:
19037 }
19038 \tl_set_eq:NN\l_mix_mediabutton_tl\mediabutton
19039 \tl_set:Nn\mediabutton{\mix_uribegin:\l_mix_mediabutton_tl}
19040

```

115 File memoir-xetex-bidi.def



```

19041 \ProvidesFile{memoir-xetex-bidi.def}[2025/01/03 v0.7 bidi adaptations for memoir class for X
19042 \renewcommand{\keepthetitle}{%
19043   \@bsmtitleempty
19044   \global\let\thanks\relax
19045   \global\let\LTRthanks\relax
19046   \global\let\RTLthanks\relax
19047   \global\let\and\relax
19048   \global\let\andnext\relax
19049   \global\let\@thanks\@empty
19050   \global\let\@title\@empty
19051   \global\let\@author\@empty
19052   \global\let\@date\@empty}
19053 \renewcommand{\maketitle}{\par
19054   \begingroup
19055     \@bsmarkseries
19056     \def\@makefnmark{\@textsuperscript{%
19057       \normalfont\@bsthanksheadpre \tamark \@bsthanksheadpost}}}%
19058     \long\def\@makefntext##1{\makethanksmark ##1}
19059     \if@twocolumn
19060       \ifnum \col@number=\@one
19061         \@maketitle
19062       \else
19063         \twocolumn[\@maketitle]%
19064       \fi
19065     \else
19066       \ifdim\pagetotal>\z@
19067         \newpage
19068       \fi
19069       \global\@topnum\z@
19070       \@maketitle
19071     \fi
19072     \thispagestyle{title}\@thanks
19073   \endgroup
19074   \@bscontmark % \setcounter{footnote}{0}%
19075 }
19076 \renewcommand*{\memRTLleftskip}{\if@RTL\rightskip\else\leftskip\fi}
19077 \renewcommand*{\memRTLrightskip}{\if@RTL\leftskip\else\rightskip\fi}
19078 \renewcommand*{\memRTLvleftskip}{\if@RTL\vrightskip\else\vleftskip\fi}
19079 \renewcommand*{\memRTLvrightskip}{\if@RTL\vleftskip\else\vrightskip\fi}
19080 \renewcommand*{\memRTLraggedright}{\if@RTL\raggedleft\else\raggedright\fi}
19081 \renewcommand*{\memRTLraggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
19082 \renewcommand*{\thesection}{\thechapter\@SepMark\@arabic\c@section}
19083 \renewcommand*{\thesubsection}{%
19084   \thesection\@SepMark\@arabic\c@subsection}
19085 \renewcommand*{\thesubsubsection}{%
19086   \thesubsection\@SepMark\@arabic\c@subsubsection}
19087 \renewcommand*{\theparagraph}{%
19088   \thesubsubsection\@SepMark\@arabic\c@paragraph}
19089 \renewcommand*{\thesubparagraph}{%
19090   \theparagraph\@SepMark\@arabic\c@subparagraph}
19091 \renewcommand{\setthesection}{\thechapter\@SepMark\Alph{section}}
19092 \renewcommand{\theequation}{%
19093   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
19094 \renewcommand{\thefigure}{\thechapter\@SepMark\@arabic\c@figure}

```



```

19095 \renewcommand{\thetable}{\thechapter\@SepMark\@arabic\c@table}
19096 \ifartopt
19097   \chapterstyle{article}
19098   \counterwithout{figure}{chapter}
19099   \counterwithout{table}{chapter}
19100   \counterwithout{footnote}{chapter}
19101   \counterwithout{equation}{chapter}
19102   \renewcommand{\chaptername}{}
19103   \renewcommand{\maketitlehookb}{%
19104     \vskip -1.5\topsep\vskip -1.5\partopsep}
19105   \renewcommand{\maketitlehookc}{%
19106     \vskip -1.5\topsep\vskip -1.5\partopsep}
19107 \fi
19108 \long\def\@makecaption#1#2{\let\@memtempa\relax
19109   \ifdim\prevdepth>-99\p@ \vskip\abovecaptionskip
19110   \else \def\@memtempa{\vbox to\topskip{}}\fi
19111   \let\@contfnote\footnote \renewcommand{\footnote}[2] [] {}
19112   \let\@contfmark\footnotemark \renewcommand{\footnotemark}[1] [] {}
19113   \sbox\@tempboxa{\@contnfont #1\@contdelim \@conttfont #2\@contfinal}
19114   \let\footnote\@contfnote
19115   \let\footnotemark\@contfmark
19116   \ifdim\wd\@tempboxa<\linewidth \centering \fi
19117   \if@contcw
19118     \centering
19119     \parbox{\@contcwidth}{%
19120       \ifdim\wd\@tempboxa<\@contcwidth \centering \fi
19121     } \fi
19122   \ifdim\wd\@tempboxa<\linewidth
19123     \@contpre
19124     {\@contnfont #1\@contdelim}\@memtempa
19125     {\@contcshortstyle \@conttfont #2\@contfinal\par}
19126   \else
19127     \if@conthang
19128       \sbox\@tempboxa{\@contnfont #1\@contdelim}
19129       \@contpre%
19130       {\@contcstyle\hangindent=\wd\@tempboxa
19131         \noindent\box\@tempboxa\@memtempa \@conttfont #2\@contfinal\par}
19132     \else
19133       \if@contindent
19134         \@contpre%
19135         {\@contnfont #1\@contdelim}\@memtempa
19136         {\@contcstyle\hangindent=\@contindw
19137           \hangafter=\@one\@conttfont #2\@contfinal\par}% <- v1.4
19138       \else
19139         \@contpre%
19140         {\@contnfont #1\@contdelim}\@memtempa
19141         {\@contcstyle \@conttfont #2\@contfinal\par}
19142       \fi
19143     \fi
19144   \fi
19145   \@contpost
19146   \if@contcw
19147     \par
19148   } % end of the \parbox

```



```

19149 \fi
19150 \vskip\belowcaptionskip}
19151 \ApplyPatchCodeToPackage{caption}{%
19152 \AtBeginPackage{caption}{
19153 \ClassWarningNoLine{memoir}{%
19154 You are using the caption package with the memoir \MessageBreak
19155 class. This may cause unexpected or inconsistent \MessageBreak
19156 results if you use any of memoir's captioning facilities}
19157
19158 \long\def\@makecaption##1##2{%
19159 \vskip\abovecaptionskip
19160 \sbox\@tempboxa{\if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi}%
19161 \ifdim \wd\@tempboxa >\hsize
19162 \if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi\par
19163 \else
19164 \global \@minipagefalse
19165 \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
19166 \fi
19167 \vskip\belowcaptionskip}
19168
19169 \def\caption{%
19170 \ifx\@captive\@undefined
19171 \latexerror{\noexpand\caption outside float}\@ehd
19172 \expandafter\@gobble
19173 \else
19174 \refstepcounter\@captive
19175 \expandafter\@firstofone
19176 \fi
19177 {\@dblarg{\@caption\@captive}}%
19178 }
19179
19180 \long\def\@caption##1[##2]##3{%
19181 \par
19182 \addcontentsline{\csname ext@##1\endcsname}{##1}%
19183 {\protect\numberline{\csname the##1\endcsname}{\ignorespaces ##2}}%
19184 \begingroup
19185 \@parboxrestore
19186 \if@minipage
19187 \setminipage
19188 \fi
19189 \normalsize
19190 \@makecaption{\csname fnum@##1\endcsname}{\ignorespaces ##3}\par
19191 \endgroup}
19192 }}
19193 \renewenvironment{thebibliography}[1]{%
19194 \bibsection
19195 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19196 \bidi@thebibliography@font@hook%
19197 \begin{bibitemlist}{#1}}{\end{bibitemlist}}\postbibhook}

```

116 File midfloat-xetex-bidi.def

```

19198 \ProvidesFile{midfloat-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for midfloat package]
19199 \def\RTL@outputdblcol{%

```



```

19200 \if@firstcolumn
19201   \global \@firstcolumnfalse
19202   \global\setbox\@leftcolumn\copy\@outputbox
19203   \splitmaxdepth\maxdimen
19204   \vbadness\maxdimen
19205   \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
19206   \setbox\@outputbox\vsplit\@outputbox to\maxdimen
19207   \toks@\expandafter{\topmark}%
19208   \xdef\@firstcoltopmark{\the\toks@}%
19209   \toks@\expandafter{\splitfirstmark}%
19210   \xdef\@firstcolfirstmark{\the\toks@}%
19211   \ifx\@firstcolfirstmark\@empty
19212     \global\let\@setmarks\relax
19213   \else
19214     \gdef\@setmarks{%
19215       \let\firstmark\@firstcolfirstmark
19216       \let\topmark\@firstcoltopmark}%
19217   \fi
19218   \global\c@colht\@colht\global\c@addvipersep\z@
19219   \ifnum\jua@sk>0
19220     \remove@strip\jua@sar
19221     \global\@colht\the\jua@pr
19222     \ifdim\right@cor>\z@
19223       \global\advance\@colht by\right@cor
19224     \fi
19225     \global\advance\@colht by\cor@height
19226     \global\cor@height=0pt
19227   \fi
19228   \global\setbox\@rightcolumn\vbox{%
19229 \else
19230   \ifdim\c@colht>\@colht
19231     \@tempdima\@colht
19232     \ifdim\@colht>\z@
19233       \global\setbox\@rightcolumn\vbox{%
19234         \unvbox\@rightcolumn
19235         \vbox to\@tempdima{%
19236           \vskip\c@addvipersep\unvbox\@outputbox}%
19237         \vskip\stripsep
19238         \vrule height\the\jua@ht width 0pt depth 0pt
19239         \vskip\stripsep
19240       }%
19241       \global\c@addvipersep\m@addvipersep
19242     \else
19243       \global\setbox\@rightcolumn\vbox{%
19244         \unvbox\@rightcolumn
19245         \vrule height\the\jua@ht width 0pt depth 0pt
19246         \vskip\stripsep
19247       }%
19248   \fi
19249   \ifnum\jua@sk>0
19250     \remove@strip\jua@sar
19251     \global\@colht\the\jua@pr
19252     \global\advance\@colht by -\ht\@rightcolumn
19253     \global\advance\@colht by\cor@height

```




```

19254         \global\cor@height=0pt
19255     \else
19256         \global\advance\c@colht by-\ht\@rightcolumn
19257         \global\@colht\c@colht
19258     \fi
19259 \else
19260 \global\@firstcolumntrue
19261 \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
19262     \unvbox\@rightcolumn
19263     \vskip\c@addvipersep
19264     \unvbox\@outputbox
19265 }%
19266 \setbox\@outputbox \vbox {%
19267     \hb@xt@\textwidth {%
19268         \hskip \columnwidth
19269         \hfil
19270         \vrule \@width\columnseprule
19271         \hfil
19272         \hb@xt@\columnwidth {%
19273             \bidi@firstcolumn@status@write%
19274             \box\@leftcolumn \hss}%
19275         \hskip-\textwidth
19276         \hb@xt@\columnwidth {%
19277             \bidi@lastcolumn@status@write%
19278             \box\@outputbox \hss}%
19279         \hskip\columnwidth
19280         \hskip\columnsep}%
19281     }%
19282 \@combinedblfloats
19283 \@setmarks
19284 \@outputpage
19285 \beginngroup
19286     \@dblfloatplacement
19287     \@startdblcolumn
19288     \@whiles\if@fcolmade \fi
19289     {\@outputpage
19290     \@startdblcolumn}%
19291 \endgroup
19292 \global\jua@sk=0\global\jua@sar={}%
19293 \global\cor@height\z@\global\c@addvipersep\z@
19294 \fi
19295 \fi
19296 }
19297
19298
19299 \def\LTR@outputdblcol{%
19300 \if@firstcolumn
19301     \global \@firstcolumnfalse
19302     \global\setbox\@leftcolumn\copy\@outputbox
19303     \splitmaxdepth\maxdimen
19304     \vbadness\maxdimen
19305     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
19306     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
19307     \toks@\expandafter{\topmark}%

```



```

19308 \xdef\@firstcoltopmark{\the\toks@}%
19309 \toks@\expandafter{\splitfirstmark}%
19310 \xdef\@firstcolfirstmark{\the\toks@}%
19311 \ifx\@firstcolfirstmark\@empty
19312 \global\let\@setmarks\relax
19313 \else
19314 \gdef\@setmarks{%
19315 \let\firstmark\@firstcolfirstmark
19316 \let\topmark\@firstcoltopmark}%
19317 \fi
19318 \global\c@colht\@colht\global\c@addvipersep\z@
19319 \ifnum\jua@sk>0
19320 \remove@strip\jua@sar
19321 \global\@colht\the\jua@pr
19322 \ifdim\right@cor>\z@
19323 \global\advance\@colht by\right@cor
19324 \fi
19325 \global\advance\@colht by\cor@height
19326 \global\cor@height=0pt
19327 \fi
19328 \global\setbox\@rightcolumn\vbox{%
19329 \else
19330 \ifdim\c@colht>\@colht
19331 \@tempdima\@colht
19332 \ifdim\@colht>\z@
19333 \global\setbox\@rightcolumn\vbox{%
19334 \unvbox\@rightcolumn
19335 \vbox to\@tempdima{%
19336 \vskip\c@addvipersep\unvbox\@outputbox}%
19337 \vskip\stripsep
19338 \vrule height\the\jua@ht width 0pt depth 0pt
19339 \vskip\stripsep
19340 }%
19341 \global\c@addvipersep\m@addvipersep
19342 \else
19343 \global\setbox\@rightcolumn\vbox{%
19344 \unvbox\@rightcolumn
19345 \vrule height\the\jua@ht width 0pt depth 0pt
19346 \vskip\stripsep
19347 }%
19348 \fi
19349 \ifnum\jua@sk>0
19350 \remove@strip\jua@sar
19351 \global\@colht\the\jua@pr
19352 \global\advance\@colht by-\ht\@rightcolumn
19353 \global\advance\@colht by\cor@height
19354 \global\cor@height=0pt
19355 \else
19356 \global\advance\c@colht by-\ht\@rightcolumn
19357 \global\@colht\c@colht
19358 \fi
19359 \else
19360 \global\@firstcolumntrue
19361 \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%

```



```

19362          \unvbox\@rightcolumn
19363          \vskip\c@addvipersep
19364          \unvbox\@outputbox
19365          }%
19366 \setbox\@outputbox \vbox {%
19367     \hb@xt@\textwidth {%
19368         \hb@xt@\columnwidth {%
19369             \bidi@firstcolumn@status@write%
19370             \box\@leftcolumn \hss}%
19371         \hfil
19372         \vrule \@width\columnseprule
19373         \hfil
19374         \hb@xt@\columnwidth {%
19375             \bidi@lastcolumn@status@write%
19376             \box\@outputbox \hss}%
19377         }%
19378     }%
19379 \@combinedblfloats
19380 \@setmarks
19381 \@outputpage
19382 \begingroup
19383     \@dblfloatplacement
19384     \@startdblcolumn
19385     \@whiles\if@fcolmade \fi
19386     {\@outputpage
19387       \@startdblcolumn}%
19388 \endgroup
19389 \global\jua@sk=0\global\jua@sar={}%
19390 \global\cor@height\z@\global\c@addvipersep\z@
19391 \fi
19392 \fi
19393 }
19394
19395
19396 \def\@strip[#1/#2]{\global\@tempdima=#1\global\@tempdimb=#2%
19397   \global \setbox\@viper\vbox\bgroup\if@RTLmain\moveleft\dimexpr(\columnwidth+\columnsep)\fi
19398     \hsize\textwidth
19399     \@parboxrestore
19400     \col@number \@ne
19401     \vrule height\topskip width0pt depth0pt
19402 }
19403
19404 \def\endstrip{%
19405     \egroup\egroup
19406     \if@firstcolumn
19407         \ifdim\pagetotal>\z@
19408             \vskip\stripsep
19409             \global\ht@strip\pagegoal
19410             \global\advance\ht@strip by-\pagetotal
19411             \global\advance\ht@strip by-\stripsep
19412             \global\advance\ht@strip by-\ht\@viper
19413             \global\advance\ht@strip by-\stripsep
19414             \global\jua@ht=\ht\@viper
19415         \else

```



```

19416             \global\ht@strip\z@
19417         \fi
19418     \ifdim\ht@strip>\z@
19419         \unvbox\@viper
19420         \vskip\stripsep
19421         \add@strip{\the\pagetotal}{\the\jua@ht}{\the\@tempdima}{\the\@tempdimb}%
19422         \global\advance\jua@sk by1
19423     \else
19424         \@latex@error{Strip needs more place!}\@ehc
19425         \if@vihproof
19426             \framebox[\columnwidth]{??? Strip ???}%
19427         \fi
19428     \fi
19429 \else
19430     \@latex@error{Strip is used only on left column!}\@ehc
19431     \if@vihproof
19432         \framebox[\columnwidth]{??? Strip ???}%
19433     \fi
19434 \fi
19435 }

```

117 File minitoc-xetex-bidi.def

```

19436 \ProvidesFile{minitoc-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for minitoc package f
19437 \def\@undottedtocline#1#2#3#4#5{%
19438     \ifnum #1>\c@tocdepth\relax \else
19439         \vskip \z@ plus.2\p@
19440         {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
19441         \parindent #2\relax\@afterindenttrue
19442         \interlinepenalty\@M
19443         \leavevmode
19444         \@tempdima #3\relax \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \hbox{}%
19445         \hskip -\if@RTL\rightskip\else\leftskip\fi
19446         #4\nobreak\hfill \nobreak
19447         \null\par}%
19448     \fi}
19449 \def\@Undottedtocline#1#2#3#4#5{%
19450     \ifnum #1>\c@tocdepth\relax \else
19451         \vskip \z@ \@plus.2\p@
19452         {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocrma
19453         \parindent #2\relax\@afterindenttrue
19454         \interlinepenalty\@M
19455         \leavevmode
19456         \@tempdima #3\relax
19457         \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
19458         {\coffee@font #4}\nobreak \nobreak\null
19459         \par}%
19460     \fi}
19461 \def\@Undottedtoclinep#1#2#3#4#5{%
19462     \ifnum #1>\c@tocdepth\relax \else
19463         \vskip \z@ \@plus.2\p@
19464         {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocrma
19465         \parindent #2\relax\@afterindenttrue
19466         \interlinepenalty\@M

```



```

19467 \leavevmode
19468 \@tempdima #3\relax
19469 \advance\if@RTL\rightrightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightrightskip
19470 {#4}\nobreak \hfill \nobreak\null
19471 \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
19472 \par}%
19473 \fi}

```

118 File multicol-xetex-bidi.def

```

19474 \ProvidesFile{multicol-xetex-bidi.def}[2022/07/10 v1.4 bidi adaptations for multicol package]
19475 \def\page@sofar{%
19476 \process@cols\mult@rightbox
19477 {\ifvoid\count@
19478 \setbox\count@\hbox to\hsize{%
19479 \else
19480 \wd\count@\hsize
19481 \fi}%
19482 \count@\col@number \advance\count@\m@ne
19483 \mult@info\z@
19484 {Column spec: \the\full@width\space = indent
19485 + columns + sep =\MessageBreak
19486 \the\multicol@leftmargin\space
19487 + \the\col@number\space
19488 x \the\hsize\space
19489 + \the\count@\space
19490 x \the\columnsep
19491 }%
19492 \ifvmode\else\errmessage{Multicol Error}\fi
19493 \nointerlineskip
19494 \setbox\z@\hbox{p}\global\dimen\tw@\dp\z@
19495 \moveright\multicol@leftmargin
19496 \hbox to\full@width{%
19497 \bidi@multicol@align@columns
19498 \rlap{\phantom p}%
19499 }%
19500 \prevdepth\z@
19501 \kern-\dimen\tw@
19502 \ifdim\dimen\tw@ > \mc@gridwarn
19503 \PackageWarning{multicol}%
19504 {Very deep columns!\MessageBreak
19505 Grid alignment might be broken}%
19506 \fi
19507 }
19508 \def\LTR@column@boxes{%
19509 \process@cols\mult@firstbox{%
19510 \ifdim\dp\count@>\dimen\tw@
19511 \global\dimen\tw@\dp\count@ \fi
19512 \mc@col@status@write
19513 \box\count@
19514 \hss{\columnseprulecolor\vrule
19515 \@width\columnseprule}\hss}%
19516 \ifdim\dp\mult@rightbox>\dimen\tw@
19517 \global\dimen\tw@\dp\mult@rightbox \fi

```



```

19518      \mc@lastcol@status@write
19519      \box\mult@rightbox
19520 }
19521
19522 \def\RTL@column@boxes{%
19523     \process@cols\mult@firstbox{%
19524         \hskip\hsize
19525         \hss{\columnseprulecolor\vrule
19526             \@width\columnseprule}\hss
19527     }%
19528     \hskip\hsize
19529     \process@cols\mult@firstbox{%
19530         \ifdim\dp\count@>\dimen\tw@
19531             \global\dimen\tw@\dp\count@ \fi
19532         \hskip-\hsize
19533         \mc@col@status@write
19534         \box\count@
19535         \hskip-\hsize
19536         \hskip-\columnsep
19537     }%
19538     \ifdim\dp\mult@rightbox>\dimen\tw@
19539         \global\dimen\tw@\dp\mult@rightbox \fi
19540     \hskip-\hsize
19541     \mc@lastcol@status@write
19542     \box\mult@rightbox
19543     \hskip-\hsize
19544     \hskip\full@width
19545 }
19546
19547 \newcommand\RTLmulticolcolumns
19548     {\let\bidimulticol@align@columns
19549      \RTL@column@boxes}
19550 \newcommand\LTRmulticolcolumns
19551     {\let\bidimulticol@align@columns
19552      \LTR@column@boxes}
19553 \newcommand\bidimulticol@align@columns
19554     {\if@RTLmain\RTL@column@boxes\else\LTR@column@boxes\fi}
19555 \bidimulticol@AtEndPreamble{%
19556     \if@bidi@csdef{footinsv@l}{%
19557         \def\footnoterule{\kern-3\p@
19558             \hrule \@width \textwidth \kern 2.6\p@}%
19559     }{}%
19560 }
19561 \def\multicols#1{\col@number#1\relax
19562     \ifnum\col@number<\tw@
19563         \PackageWarning{multicol}%
19564             {Using `\'number\col@number'
19565              columns doesn't seem a good idea.^^J
19566              I therefore use two columns instead}%
19567         \col@number\tw@ \fi
19568     \ifnum\col@number>20
19569         \PackageError{multicol}%
19570             {Too many columns}%
19571         {Current implementation doesn't

```



```

19572      support more than 20 columns.%
19573      \MessageBreak
19574      I therefore use 20 columns instead}%
19575      \col@number20 \fi
19576      \ifx\@footnotetext\mult@footnotetext
19577      \else
19578      \let\orig@footnotetext\@footnotetext
19579      \let\@footnotetext\mult@footnotetext
19580      \fi
19581      \ifx\@LTRfootnotetext\mult@LTRfootnotetext
19582      \else
19583      \let\orig@LTRfootnotetext\@LTRfootnotetext
19584      \let\@LTRfootnotetext\mult@LTRfootnotetext
19585      \fi
19586      \ifx\@RTLfootnotetext\mult@RTLfootnotetext
19587      \else
19588      \let\orig@RTLfootnotetext\@RTLfootnotetext
19589      \let\@RTLfootnotetext\mult@RTLfootnotetext
19590      \fi
19591      \@ifnextchar[\mult@cols{\mult@cols[]}]
19592      \long\def\mult@footnotetext#1{\begingroup
19593          \hsize\textwidth
19594          \columnwidth\textwidth
19595          \orig@footnotetext{#1}\endgroup}
19596      \long\def\mult@LTRfootnotetext#1{\begingroup
19597          \hsize\textwidth
19598          \columnwidth\textwidth
19599          \orig@LTRfootnotetext{#1}\endgroup}
19600      \long\def\mult@RTLfootnotetext#1{\begingroup
19601          \hsize\textwidth
19602          \columnwidth\textwidth
19603          \orig@RTLfootnotetext{#1}\endgroup}
19604      \def\right@footnoterule{%
19605          \kern-3\p@
19606          \hbox to \textwidth{\hskip \dimexpr\textwidth-.4\columnwidth\relax \hrulefill }
19607          \kern2.6\p@}
19608      \def\textwidth@footnoterule{\kern-3\p@
19609          \hrule \@width \textwidth \kern 2.6\p@}
19610      \def\bidileave@mult@copyins{%
19611          \advance\dimen@-\skip\@bidi@copyins@
19612          \advance\dimen@-\ht\@bidi@copyins@
19613      }
19614
19615      \bidi@AtEndPreamble{%
19616          \if@bidi@csundef{footinsv@1}{%
19617              \bidi@patchcmd{\multi@column@out}{%
19618                  \ifvbox \@kludgeins
19619              }{%
19620                  \ifvoid\@bidi@copyins@ \else
19621                      \bidileave@mult@copyins
19622                  \fi
19623                  \ifvbox \@kludgeins
19624              }{}{}%
19625          }{}%

```



19626 }
 19627
 19628

119 File multienum-xetex-bidi.def

```

19629 \ProvidesFile{multienum-xetex-bidi.def}[2011/04/16 v0.1 bidi adaptations for multienum packa
19630 \renewcommand{\itemx}[1]{\parbox[t]{%
19631 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19632 \parbox[t]{\remainx}{\bidi@raggedright #1}\par}%\smallskip
19633 \renewcommand{\itemxx}[2]{\parbox[t]{%
19634 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19635 \parbox[t]{.5\remainxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
19636 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19637 \parbox[t]{0.5\remainxx}{\bidi@raggedright #2}\smallskip}
19638 \renewcommand{\itemxxx}[3]{\parbox[t]{%
19639 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19640 \parbox[t]{.3333\remainxxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
19641 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19642 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\hfill\parbox[t]{%
19643 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19644 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #3}\par}%\smallskip
19645 \renewcommand{\itemxxxx}[4]{\parbox[t]{%
19646 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19647 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
19648 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19649 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
19650 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19651 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\hfill%
19652 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19653 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #4}\smallskip}
19654 \renewcommand{\itemxxxxx}[5]{\parbox[t]{%
19655 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19656 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #1}\hfill%
19657 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19658 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #2}\hfill%
19659 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19660 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #3}\hfill%
19661 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19662 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #4}\hfill%
19663 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19664 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #5}\smallskip}
19665 \renewcommand{\itemxox}[2]{\parbox[t]{%
19666 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19667 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
19668 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19669 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\smallskip}
19670 \renewcommand{\itemxox}[2]{\parbox[t]{%
19671 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19672 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #1}\hfill%
19673 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19674 \parbox[t]{\remainxox}{\bidi@raggedright #2}\smallskip}
19675 \renewcommand{\itemxox}[3]{\parbox[t]{%
19676 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep

```




```

19677 \parbox[t]{\remainxxxx}{\bidi@raggedright #1}\hfill%
19678 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19679 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
19680 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19681 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
19682 \renewcommand{\itemxxx}[3]{\parbox[t]{%
19683 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19684 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
19685 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19686 \parbox[t]{\remainxxxx}{\bidi@raggedright #2}\hfill%
19687 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19688 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
19689 \renewcommand{\itemxxxo}[3]{\parbox[t]{%
19690 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19691 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
19692 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19693 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #2}\hfill%
19694 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19695 \parbox[t]{\remainxxxx}{\bidi@raggedright #3}\smallskip}

```

120 File natbib-xetex-bidi.def

```

19696 \ProvidesFile{natbib-xetex-bidi.def}[2017/06/09 v0.2 bidi adaptations for natbib package for
19697 \renewenvironment{thebibliography}[1]{%
19698 \bibsection
19699 \parindent\z@
19700 \bibpreamble
19701 \bibfont
19702 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19703 \bidi@@thebibliography@font@hook%
19704 \list{\@biblabel{\the\c@NAT@ctr}}{\@bibsetup{#1}\global\c@NAT@ctr\z@}%
19705 \ifNAT@openbib
19706 \renewcommand\newblock{\par}%
19707 \else
19708 \renewcommand\newblock{\hskip .11em \@plus.33em \@minus.07em}%
19709 \fi
19710 \sloppy\clubpenalty4000\widowpenalty4000
19711 \sfcode`. \@m
19712 \let\NAT@bibitem@first@sw\@firstoftwo
19713 \let\citeN\cite \let\shortcite\cite
19714 \let\citeasnoun\cite
19715 }{%
19716 \bibitem@fin
19717 \bibpostamble
19718 \def\@noitemerr{%
19719 \PackageWarning{natbib}{Empty `thebibliography' environment}%
19720 }%
19721 \endlist
19722 \bibcleanup
19723 }%

```

121 File newfloat-xetex-bidi.def

```

19724 \ProvidesFile{newfloat-xetex-bidi.def}[2013/05/22 v0.1 bidi adaptations for newfloat package

```



```

19725 \renewcommand*\newfloat@setwithin[2]{%
19726   \ifcsname c@chapter\endcsname
19727     \@removefromreset{#1}{chapter}%
19728   \fi
19729   \@removefromreset{#1}{section}%
19730   \edef\@tempa{#2}%
19731   \ifx\@tempa\@empty
19732     \def\@tempa{none}%
19733   \fi
19734   \def\@tempb{none}%
19735   \ifx\@tempa\@tempb
19736     \ifcsname c@chapter\endcsname
19737       \@chapterlistsgap@off{#1}%
19738     \fi
19739     \newfloat@@setwithin{#1}{\}{\}%
19740   \else
19741     \def\@tempb{chapter}%
19742     \ifx\@tempa\@tempb
19743       \@addtoreset{#1}{chapter}%
19744       \@chapterlistsgap@on{#1}%
19745       \newfloat@@setwithin{#1}{\ifnum\c@chapter>\z@ \thechapter\@SepMark\fi}{\theHchapter\@S
19746     \else
19747       \def\@tempb{section}%
19748       \ifx\@tempa\@tempb
19749         \@addtoreset{#1}{section}%
19750         \ifcsname c@chapter\endcsname
19751           \@addtoreset{#1}{chapter}%
19752           \@chapterlistsgap@on{#1}%
19753           \newfloat@@setwithin{#1}{\thesection\@SepMark}{\theHsection\@SepMark}%
19754         \else
19755           \newfloat@@setwithin{#1}{\ifnum\c@section>\z@ \thesection\@SepMark\fi}{\theHsection
19756         \fi
19757       \else
19758         \newfloat@Error{Invalid value `#2' for option `within'}%
19759       \fi
19760     \fi
19761   \fi}

```

122 File nicematrix-xetex-bidi.def

```

19762 \ProvidesFile{nicematrix-xetex-bidi.def}[2024/12/15 v0.3 bidi adaptations for nicematrix pac
19763 \ExplSyntaxOn
19764 \bidi@patchcmd{\__nicematrix_array:n}{\@tabarray}{%
19765   \bool_if:NF \l__nicematrix_tabular_bool \@RTLtabfalse
19766   \@tabarray
19767 }{\fi}
19768 \ExplSyntaxOff
19769

```

123 File ntheorem-xetex-bidi.def

```

19770 \ProvidesFile{ntheorem-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem package
19771 \gdef\@thm#1#2#3{%
19772   \if@thmmarks

```



```

19773 \stepcounter{end\InTheoType ctr}%
19774 \fi
19775 \renewcommand{\InTheoType}{#1}%
19776 \if@thmmarks
19777 \stepcounter{curr#1ctr}%
19778 \setcounter{end#1ctr}{0}%
19779 \fi
19780 \refstepcounter{#2}%
19781 \theorem@prework
19782 \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
19783 \ifvmode \advance\thm@topsepadd\partopsep\fi
19784 \trivlist
19785 \@topsep \theorempreskipamount
19786 \@topsepadd \thm@topsepadd % used by \@endparenv
19787 \advance\linewidth -\theorem@indent
19788 \advance\@totalleftmargin \theorem@indent
19789 \if@RTL\parshape \@ne 0pt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
19790 \@ifnextchar[{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}

```

124 File ntheorem-hyper-xetex-bidi.def

```

19791 \ProvidesFile{ntheorem-hyper-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem-h
19792 \gdef\@thm#1#2#3{%
19793 \if@thmmarks
19794 \stepcounter{end\InTheoType ctr}%
19795 \fi
19796 \renewcommand{\InTheoType}{#1}%
19797 \if@thmmarks
19798 \stepcounter{curr#1ctr}%
19799 \setcounter{end#1ctr}{0}%
19800 \fi
19801 \refstepcounter{#2}%
19802 \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
19803 \ifvmode \advance\thm@topsepadd\partopsep\fi
19804 \trivlist
19805 \@topsep \theorempreskipamount
19806 \@topsepadd \thm@topsepadd % used by \@endparenv
19807 \advance\linewidth -\theorem@indent
19808 \advance\@totalleftmargin \theorem@indent
19809 \if@RTL\parshape \@ne 0pt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
19810 \@ifnextchar[{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}

```

125 File overpic-xetex-bidi.def

```

19811 \ProvidesFile{overpic-xetex-bidi.def}[2015/12/07 v0.1 bidi adaptations for overpic package f
19812 \renewenvironment{overpic}[2][{}]{%
19813 \sbox{\z@}{\includegraphics[#1]{#2}}%
19814 \settodepth{\@tempcnta}{\usebox{\z@}}%
19815 \settoheight{\@tempcntb}{\usebox{\z@}}%
19816 \advance\@tempcntb\@tempcnta%
19817 \settoheight{\@tempcnta}{\usebox{\z@}}%
19818 \setlength{\@tempdima}{\unitlength}%
19819 \count@=\z@\Gin@gridfalse\setkeys{Gin}{#1}%
19820 %

```



```

19821 \OVP@calc%
19822 %
19823 \begin{picture}(\@tempcnta,\@tempcntb)%
19824 \if@RTL\else\put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}%
19825 \ifGin@grid%
19826 \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
19827 \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
19828 \fi\fi%
19829 % reset the graphics parameter
19830 \let\Gin@outer@scalex\relax
19831 \let\Gin@outer@scaley\relax
19832 \let\Gin@angle\relax
19833 \let\Gin@ewidth\Gin@exclamation
19834 \let\Gin@eheight\Gin@ewidth
19835 \def\Gin@scalex{1}
19836 \let\Gin@scaley\Gin@exclamation
19837 }{%
19838 \if@RTL\ifGin@grid%
19839 \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
19840 \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
19841 \fi%
19842 \put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}\fi%
19843 \end{picture}%
19844 }%

```

126 File pdfbase-xetex-bidi.def

```

19845 \ProvidesFile{pdfbase-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for pdfbase package f
19846 \ExplSyntaxOn
19847 \cs_set_eq:NN\pbs_outputpage_orig:\@outputpage
19848 \cs_set_nopar:Npn\@outputpage{
19849 \int_gincr:N\g_pbs_page_int
19850 \box_if_vertical:cTF{\@outputbox}{
19851 \bool_set_true:N\l_pbs_is_vertical_bool
19852 }{
19853 \bool_set_false:N\l_pbs_is_vertical_bool
19854 }
19855 \hbox_set:Nn\@outputbox{
19856 %begin of page
19857 \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_bop_seq{##1}}
19858 \box_use_drop:N\@outputbox
19859 %end of page
19860 \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_eop_seq{##1}}
19861 }
19862 \bool_if:NT\l_pbs_is_vertical_bool{
19863 \vbox_set:Nn\@outputbox{\box_use_drop:N\@outputbox}
19864 }
19865 \pbs_outputpage_orig:
19866 }
19867 \ExplSyntaxOff

```

127 File pdfscape-xetex-bidi.def

```

19868 \ProvidesFile{pdfscape-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for pdfscape packa

```



```

19869 \bidi@patchcmd{\landscape}{\PLS@Rotate{90}}{%
19870   \if@RTL
19871     \PLS@Rotate{-90}%
19872   \else
19873     \PLS@Rotate{90}%
19874   \fi
19875 }{}{}

```

128 File pgfcorescopes.code-xetex-bidi.def

```

19876 \ProvidesFile{pgfcorescopes.code-xetex-bidi.def}[2015/11/14 v0.1 bidi adaptations for pgf pa
19877 \def\pgfpicture{%
19878   \begingroup%
19879   \ifmmode\else\@RTLfalse\beginL\fi%
19880   \pgfpicturetrue%
19881   \global\advance\pgf@picture@serial@count by1\relax%
19882   \edef\pgfpictureid{pgfid\the\pgf@picture@serial@count}%
19883   \let\pgf@nodecallback=\pgfutil@gobble%
19884   \pgf@picmaxx=-16000pt\relax%
19885   \pgf@picminx=16000pt\relax%
19886   \pgf@picmaxy=-16000pt\relax%
19887   \pgf@picminy=16000pt\relax%
19888   \pgf@relevantforpicturesizetrue%
19889   \pgf@resetpathsizes%
19890   \pgfutil@ifnextchar\bgroup\pgf@oldpicture\pgf@picture}
19891 \def\endpgfpicture{%
19892   \ifpgfrememberpicturerepositiononpage%
19893     \hbox to0pt{\pgfsys@markposition{\pgfpictureid}}%
19894     \fi%
19895     % ok, now let's position the box
19896     \ifdim\pgf@picmaxx=-16000pt\relax%
19897       % empty picture. make size 0.
19898       \global\pgf@picmaxx=0pt\relax%
19899       \global\pgf@picminx=0pt\relax%
19900       \global\pgf@picmaxy=0pt\relax%
19901       \global\pgf@picminy=0pt\relax%
19902     \fi%
19903     % Shift baseline outside:
19904     \pgf@relevantforpicturesizefalse%
19905     \pgf@process{\pgf@baseline}%
19906     \xdef\pgf@shift@baseline{\the\pgf@y}%
19907     %
19908     \pgf@process{\pgf@trimleft}%
19909     \global\advance\pgf@x by-\pgf@picminx
19910     % prepare \hskip\pgf@trimleft@final.
19911     % note that \pgf@trimleft@final is also queried
19912     % by the pgf image externalization.
19913     \xdef\pgf@trimleft@final{-\the\pgf@x}%
19914     %
19915     \pgf@process{\pgf@trimright}%
19916     \global\advance\pgf@x by-\pgf@picmaxx
19917     % prepare \hskip\pgf@trimright@final.
19918     % note that \pgf@trimright@final is also queried
19919     % by the pgf image externalization.

```



```

19920         \xdef\pgf@trimright@final{\the\pgf@x}%
19921     %
19922     \pgf@remember@layerlist@globally
19923     \endgroup%
19924     \hss%
19925     \egroup%
19926     \pgf@restore@layerlist@from@global
19927     \pgf@insertlayers%
19928     \endgroup%
19929     \pgfsys@discardpath%
19930     \endgroup%
19931     \pgfsys@endscope%
19932     \pgfsys@endpicture%
19933     \endgroup%
19934     \hss
19935 \egroup%
19936 \pgfsys@typesetpicturebox\pgfpic%
19937 \ifmmode\else\endL\fi%
19938 \endgroup%
19939 }

```

129 File pgfsys-xetex-bidi.def

```

19940 \ProvidesFile{pgfsys-xetex-bidi.def}[2025/01/05 v0.1 bidi adaptations for pgfsys package for
19941 \def\pgfsys@shadingoutsidepgfpicture#1{%
19942     \beginL#1\endL%
19943 }
19944
19945

```

130 File picinpar-xetex-bidi.def

```

19946 \ProvidesFile{picinpar-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for picinpar package
19947 \long\def\@makewincaption#1#2{%
19948     \setbox\@tempboxa\hbox{\footnotesize{\bf #1:\enspace}{#2}}%
19949     \ifdim\wd\@tempboxa>\picwd
19950         {\footnotesize{\bf #1:\enspace}{#2\par}}
19951     \else
19952         \hbox to\picwd{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}
19953     \fi}
19954 \def\endwindow{%
19955     \global\tcd=\tcdsav
19956     \egroup\vskip\parskip\parshape=0 % reset parshape; end \box\rawtext
19957     \vbadness=10000
19958     \splittopskip=0pt
19959 %
19960 % Typeset the lines above the window
19961 %
19962 \ifnum\tcd>0\setbox\holder=\vsplit\rawtext to \tcd\baselineskip
19963 \tcn=\tcd
19964 \loop\advance\tcn -1
19965 \setbox\fslice=\vsplit\holder to\baselineskip
19966 \prune\fslice\linewidth
19967 \topheight=0pt

```



```

19968 \ifnum\dp\fslice>\dp\wstrutbox
19969     \advance\topheight-\dp\fslice
19970     \advance\topheight\dp\wstrutbox
19971     \advance\topheight\ilg\fi
19972 \hbox to\linewidth{\box\fslice}
19973 \vskip-\topheight
19974 \ifdim\ht\holder>0pt\repeat
19975 \fi
19976 %
19977 % Now we build the boxes beside the window
19978 %
19979 \global\topheight=\tcl\baselineskip
19980 \ifnum\cumpartcl>0\global\tcl=\cumtcl
19981     \global\topheight=\vpic
19982 \fi
19983 \ifnum\bl>0 \ifnum\br>0 \multiply\topheight by 2\fi\fi
19984 \ifnum\bl>0\setbox\holder=\vsplit\rawtext to\topheight
19985 \else\ifnum\br>0\setbox\holder=\vsplit\rawtext to\topheight\fi\fi
19986 \tcl=\tcl \na=0 \nb=0
19987 \ifnum\bl>0 \ifnum\br>0 \multiply\tcl by 2\fi\fi
19988 \ifnum\bl>0\na=\tcl\ifnum\br>0\divide\na by 2\fi\fi
19989 \ifnum\br>0\nb=\tcl\ifnum\bl>0\divide\nb by 2\fi\fi
19990 \ifnum\na=0\ifnum\nb=0
19991     \setbox\waslice=\vbox to\vpic{\vss}
19992     \setbox\wbslice=\vbox to\vpic{\vss}
19993     \bl=1\br=1
19994     \vskip\ilg
19995 \fi\fi
19996 %
19997 % both sides
19998 %
19999 \ifnum\na>0 \ifnum\nb>0
20000 \loop\advance\nb -1
20001 \advance\na -1
20002 \if@RTL%
20003 \setbox\bslice=\vsplit\holder to\baselineskip
20004 \prune\bslice\rtside
20005 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
20006 to\rtside{\box\bslice\hfil}}
20007 \setbox\aslice=\vsplit\holder to\baselineskip
20008 \prune\aslice\lftside
20009 \setbox\waslice=\vbox{\unvbox\waslice\hbox
20010 to\lftside{\box\aslice\hfil}}
20011 \else%
20012 \setbox\aslice=\vsplit\holder to\baselineskip
20013 \prune\aslice\lftside
20014 \setbox\waslice=\vbox{\unvbox\waslice\hbox
20015 to\lftside{\box\aslice\hfil}}
20016 \setbox\bslice=\vsplit\holder to\baselineskip
20017 \prune\bslice\rtside
20018 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
20019 to\rtside{\box\bslice\hfil}}
20020 \fi%
20021 \ifnum\nb>0\repeat

```



```

20022 \fi\fi
20023 %
20024 % only text on the left side
20025 %
20026 \ifnum\na>0
20027   \loop\advance\na -1
20028   \setbox\aslice=\vsplit\holder to\baselineskip
20029   \prune\aslice\lftside
20030   \setbox\waslice=\vbox{\unvbox\waslice\hbox
20031   to\lftside{\box\aslice\hfil}}
20032   \ifdim\ht\holder>0pt\repeat
20033 \fi
20034 %
20035 % only text on the right side
20036 %
20037 \ifnum\nb>0
20038   \loop\advance\nb -1
20039   \setbox\bslice=\vsplit\holder to\baselineskip
20040   \prune\bslice\rtside
20041   \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
20042   to\rtside{\box\bslice\hfil}}
20043   \ifdim\ht\holder>0pt\repeat
20044 \fi
20045 %
20046 % fixing the dimensions of the window part
20047 %
20048 \ifnum\bl=0\topheight=\ht\wbslice
20049 \else\ifnum\br=0\topheight=\ht\waslice
20050   \else\ifdim\ht\waslice>\ht\wbslice\topheight=\ht\waslice
20051   \else\topheight=\ht\wbslice\fi\fi\fi
20052 %
20053 % ship out the window material to the main vertical list
20054 %
20055 \ifnum\bl>0 \ifnum\br>0 \ifdim\ht\wbslice<\topheight
20056 \setbox\wbslice=\vbox to\topheight{\box\wbslice\vfill}
20057 \fi\fi\fi
20058 \setbox>windowbox=\vbox{\hbox to\linewidth{%
20059 \ifnum\bl>0\box\waslice\hfill\fi%
20060 \vbox to\topheight{\hrule width\picwd height0pt depth0pt\vskip0pt%
20061 \vfill\unvbox\picbox%
20062 \ifnum\picwd>0\vfill\fi%
20063 \vss}\ifnum\br>0\hfill\vbox{\box\wbslice}\fi}}%
20064 \unvbox>windowbox%
20065 \loop
20066 \setbox\bslice=\vsplit\rawtext to\baselineskip
20067 \prune\bslice\linewidth
20068 \setbox\wbslice=\vbox{\hbox to\linewidth{\box\bslice\hfil}}
20069 \unvbox\wbslice
20070 \ifdim\ht\rawtext>0pt
20071 \repeat
20072 }% FINITO

```

131 File plain-xetex-bidi.def




```

20073 \def\TeXeTOn{\TeXeTstate=1 }
20074 \def\TeXeTOff{\TeXeTstate=0 }
20075 \TeXeTOn
20076 \def\usebox#1{\leavevmode\copy #1\relax}
20077 \def\bidirTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox\z@
20078   \let\bidio@everypar=\everypar
20079   \newtoks\bidin@everypar
20080   \bidin@everypar\expandafter{\the\bidio@everypar}
20081   \bidio@everypar{\bidirTL@everypar\the\bidin@everypar}
20082   \let\everypar=\bidin@everypar
20083 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
20084 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
20085 \protected\def\hboxR{\hbox\bgroup
20086   \everyhbox{%
20087     \aftergroup\egroup
20088     \everyhbox{}%
20089     \beginR
20090     \@hboxRconstructtrue
20091     \bgroup
20092     \aftergroup\endR
20093     \aftergroup\egroup
20094   }\hbox}
20095 \protected\def\hboxL{\hbox\bgroup
20096   \everyhbox{%
20097     \aftergroup\egroup
20098     \everyhbox{}%
20099     \beginL
20100     \@hboxRconstructfalse
20101     \bgroup
20102     \aftergroup\endL
20103     \aftergroup\egroup
20104   }\hbox}
20105 \protected\def\vboxR{\vbox\bgroup
20106   \everyvbox{%
20107     \aftergroup\egroup
20108     \everyvbox{}%
20109     \@RTLtrue
20110     \bgroup
20111     \aftergroup\egroup
20112   }\vbox}
20113 \protected\def\vboxL{\vbox\bgroup
20114   \everyvbox{%
20115     \aftergroup\egroup
20116     \everyvbox{}%
20117     \@RTLfalse
20118     \bgroup
20119     \aftergroup\egroup
20120   }\vbox}
20121 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\hsize\linewidth\parshape\z@}
20122 \def\endLTR{\par}
20123 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\hsize\linewidth\parshape\z@}
20124 \def\endRTL{\par}
20125 \def\setRTL{\@RTLtrue\@RTL@footnotetrue}
20126 \def\setLTR{\@RTLfalse\@RTL@footnotefalse}

```



```

20127 \let\unsetRTL=\setLTR
20128 \let\unsetLTR=\setRTL
20129 \let\LR=\LRE
20130 \let\RL=\RLE
20131 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
20132 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
20133 \let\@ensure@RL=\@ensure@RTL
20134 \let\@ensure@LR=\@ensure@LTR
20135 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
20136 \let\@ensure@maindir=\@ensure@dir
20137 \def\@RTL{RTL}
20138 \def\@LTR{LTR}
20139 \def\save@dir{\if@RTL\gdef\saved@@dir{RTL}\else\gdef\saved@@dir{LTR}\fi}
20140 \def\reset@dir{\ifx\saved@@dir\@RTL\setRTL\else\ifx\saved@@dir\@LTR\setLTR\else\relax\fi}
20141 \let\@TeX\TeX
20142 \def\TeX{\@ensure@LTR{\@TeX}}
20143 \def\pagecontents{\ifvoid\topins\else\unvbox\topins\fi
20144   \dimen@=\dp\@cclv \unvbox\@cclv % open up \box255
20145   \ifvoid\footins\else % footnote info is present
20146     \vskip\skip\footins
20147     \footnoterule
20148     \unvbox\footins\fi
20149   \ifr@ggedbottom \kern-\dimen@ \vfil \fi
20150   \ifvoid\@bidi@copyins@
20151   \else
20152     \vskip\skip\@bidi@copyins@
20153     \unvbox\@bidi@copyins@
20154   \fi
20155 }
20156 \long\def\bidi@reflect@box#1{%
20157   \leavevmode
20158   \setbox\z@\hbox{#1}%
20159   \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
20160   \hbox to \wd\z@{\kern\wd\z@\box\tw@\hss}%
20161 }
20162 \def\XeTeX{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
20163   \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}
20164 \let\setRL=\setRTL
20165 \let\setLR=\setLTR
20166 \let\unsetRL=\setLTR
20167 \let\bidi@saved@eqno=\eqno
20168 \let\bidi@saved@leqno=\leqno
20169 \def\eqno{\ifnum\predisplaydirection<\z@ \bidi@saved@leqno \else \bidi@saved@eqno \fi}
20170 \def\leqno{\ifnum\predisplaydirection<\z@ \bidi@saved@eqno \else \bidi@saved@leqno \fi}
20171 \def\centerline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
20172 \def\leftline#1{\line{\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
20173 \def\rightline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi}}

```

132 File pstricks-xetex-bidi.def

```

20174 \ProvidesFile{pstricks-xetex-bidi.def}[2025/01/08 v0.7 bidi adaptations for pstricks package]
20175 \bidi@patchcmd\pspicture\begingroup{%
20176   \begingroup
20177   \ifmmode

```



```

20178 \else
20179 \@RTLfalse
20180 \beginL
20181 \fi
20182 }{}{\bidi@warningnoline{Oops! patching `string\pspicture' failed}}
20183
20184 \bidi@patchcmd\endpspicture{%
20185 \endgroup
20186 \psset[pstricks]{shift=0}% reset value
20187 }{%
20188 \ifmmode
20189 \else
20190 \endL
20191 \fi
20192 \endgroup
20193 \psset[pstricks]{shift=0}% reset value
20194 }{}{\bidi@warningnoline{Oops! patching `string\endpspicture' failed}}
20195
20196 \bidi@patchcmd\@@scalebox{%
20197 \special{x: bscale \pst@tempc \pst@tempd}%
20198 \hbox to \z@{\box\pst@hbox\hss}%
20199 \special{x: escale}%
20200 }{%
20201 \if@RTL
20202 \special{x: escale}%
20203 \else
20204 \special{x: bscale \pst@tempc \pst@tempd}%
20205 \fi
20206 \hbox to \z@{\box\pst@hbox\hss}%
20207 \if@RTL
20208 \special{x: bscale \pst@tempc \pst@tempd}%
20209 \else
20210 \special{x: escale}%
20211 \fi
20212 }{}{\bidi@warningnoline{Oops! patching `string\@@scalebox' failed}}
20213 \let\ps@@scalebox\@@scalebox
20214

```

133 File quotchap-xetex-bidi.def

```

20215 \ProvidesFile{quotchap-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for quotchap package]
20216 \renewcommand{\qauthor}[1]{%
20217 \par\smallskip
20218 {\if@RTL\raggedright\else\raggedleft\fi\upshape #1\qqquad\hbox{}\par}\bigskip}
20219 \renewcommand{\@makechapterhead}[1]{\chapterheadstartvskip%
20220 {\size@chapter{\sectfont\if@RTL\raggedright\else\raggedleft\fi
20221 {\chapnumfont
20222 \ifnum \c@secnumdepth >\m@ne%
20223 \if@mainmatter\thechapter%
20224 \fi\fi
20225 \par\nobreak}%
20226 {\if@RTL\raggedright\else\raggedleft\fi\advance\if@RTL\rightmargin\else\leftmargin\fi
20227 \nobreak\chapterheadendvskip}}
20228 \renewcommand*{\@iprintcites}{%

```



```

20229 \vbox to\z@{\leavevmode\copy\@quotebox\vss}
20230 \global\let\@printcites\relax}

```

134 File ragged2e-xetex-bidi.def

```

20231 \ProvidesFile{ragged2e-xetex-bidi.def}[2018/10/17 v0.3 bidi adaptations for ragged2e package]
20232 \renewcommand{\Centering}{%
20233   \ifx\\ \@raggedtwoe@savedcr
20234     \let\\ \@centercr
20235   \fi
20236   \let\@newline\@raggedtwoe@gnewline
20237   \if@RTL\rightskip\else\leftskip\fi\CenteringLeftskip
20238   \@rightskip\CenteringRightskip
20239   \if@RTL\leftskip\else\rightskip\fi\@rightskip
20240   \parfillskip\CenteringParfillskip
20241   \parindent\CenteringParindent
20242   \@raggedtwoe@spaceskiptrue
20243   \@raggedtwoe@everyselectfont
20244 }
20245 \renewcommand{\RaggedLeft}{%
20246   \ifx\\ \@raggedtwoe@savedcr
20247     \let\\ \@centercr
20248   \fi
20249   \let\@newline\@raggedtwoe@gnewline
20250   \if@RTL\rightskip\else\leftskip\fi\RaggedLeftLeftskip
20251   \@rightskip\RaggedLeftRightskip
20252   \if@RTL\leftskip\else\rightskip\fi\@rightskip
20253   \parfillskip\RaggedLeftParfillskip
20254   \parindent\RaggedLeftParindent
20255   \@raggedtwoe@spaceskiptrue
20256   \@raggedtwoe@everyselectfont
20257 }
20258 \renewcommand{\RaggedRight}{%
20259   \ifx\\ \@raggedtwoe@savedcr
20260     \let\\ \@centercr
20261   \fi
20262   \let\@newline\@raggedtwoe@gnewline
20263   \if@RTL\rightskip\else\leftskip\fi\RaggedRightLeftskip
20264   \@rightskip\RaggedRightRightskip
20265   \if@RTL\leftskip\else\rightskip\fi\@rightskip
20266   \parfillskip\RaggedRightParfillskip
20267   \parindent\RaggedRightParindent
20268   \@raggedtwoe@spaceskiptrue
20269   \@raggedtwoe@everyselectfont
20270 }
20271 \renewcommand{\justifying}{%
20272   \let\\ \@raggedtwoe@savedcr
20273   \let\@newline\@raggedtwoe@saved@gnewline
20274   \if@RTL\rightskip\else\leftskip\fi\z@
20275   \@rightskip\z@
20276   \if@RTL\leftskip\else\rightskip\fi\@rightskip
20277   \parfillskip\JustifyingParfillskip
20278   \parindent\JustifyingParindent
20279   \@raggedtwoe@spaceskipfalse

```



```

20280 \raggedtwoe@everyselectfont
20281 }
20282 \def\@raggedtwoe@raggedrightboxes@opt{%
20283 \renewcommand{\@arrayparboxrestore}{%
20284 \let\if@nobreak\iffalse
20285 \let\if@noskipsec\iffalse
20286 \let\par\@par
20287 \let\-\@dischyph
20288 \let'\@acci\let'\@accii\let\=\@acciii
20289 \parskip\z@skip
20290 \everypar{}%
20291 \linewidth\hsize
20292 \@totalleftmargin\z@
20293 \if@RTL
20294 \RaggedLeft
20295 \else
20296 \RaggedRight
20297 \fi
20298 \lineskip\normallineskip
20299 \baselineskip\normalbaselineskip
20300 \sloppy}%
20301 \let\@raggedtwoe@raggedrightboxes@opt\relax
20302 }
20303 \def\@raggedtwoe@document@opt{%
20304 \AtBeginDocument{\@raggedtwoe@abdhook}%
20305 \@raggedtwoe@raggedrightboxes@opt
20306 \@raggedtwoe@footmisctrue
20307 \let\@raggedtwoe@document@opt\relax
20308 }
20309 \def\@raggedtwoe@abdhook{%
20310 \PackageInfo{ragged2e}{ABD: executing '\string\RaggedLeft' for
20311 right to left documents and '\string\RaggedRight' for left
20312 to right documents}%
20313 \if@RTL
20314 \RaggedLeft
20315 \else
20316 \RaggedRight
20317 \fi
20318 \ifundefined{@tocrmarg}{\edef\@tocrmarg{\@tocrmarg plus 2em}}%
20319 \let\@raggedtwoe@abdhook\relax
20320 }
20321 \@ifpackagewith{ragged2e}{raggedrightboxes}{%
20322 \@raggedtwoe@raggedrightboxes@opt
20323 }{}
20324 \@ifpackagewith{ragged2e}{document}{%
20325 \@raggedtwoe@document@opt
20326 }{}
20327 \let\origin@RaggedLeft=\RaggedLeft
20328 \let\origin@RaggedRight=\RaggedRight
20329 \def\RaggedLeft{\if@RTL\origin@RaggedRight\else\origin@RaggedLeft\fi}
20330 \def\RaggedRight{\if@RTL\origin@RaggedLeft\else\origin@RaggedRight\fi}

```

135 File rapport1-xetex-bidi.def



```

20331 \ProvidesFile{rapport1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for rapport1 class f
20332 \renewenvironment{theindex}{%
20333   \if@twocolumn
20334     \@restonecolfalse
20335   \else
20336     \@restonecoltrue
20337   \fi
20338   \columnseprule \z@
20339   \columnsep 35\p@
20340   \twocolumn[\@makeschapterhead{\indexname}]%
20341   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
20342   \thispagestyle{plain}\parindent\z@
20343   \parskip\z@ \@plus .3\p@\relax
20344   \let\item\@idxitem
20345 }{%
20346   \if@restonecol\onecolumn\else\clearpage\fi}
20347 \renewcommand*{\head@style}{%
20348   \interlinepenalty \@M
20349   \hyphenpenalty=\@M \exhyphenpenalty=\@M
20350   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
20351 \if@titlepage
20352   \renewenvironment{abstract}{%
20353     \titlepage
20354     \null\vfil
20355     \section*{\SectFont\abstractname}%
20356     \noindent\ignorespaces}
20357     {\par\vfil\null\endtitlepage}
20358 \else
20359   \renewenvironment{abstract}{%
20360     \if@twocolumn
20361       \section*{\abstractname}%
20362     \else
20363       \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
20364       \section*{\small\SectFont\abstractname}%
20365       \noindent\ignorespaces
20366     \fi}
20367     {\if@twocolumn\else\par\egroup\fi}
20368 \fi
20369 \renewcommand*{\@regtocline}[3]{%
20370   \ifnum #1>\c@tocdepth
20371   \else
20372     \vskip\z@\@plus.2\p@
20373     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
20374     \if@RTL\rightskip\else\leftskip\fi\unitindent
20375     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
20376     \parfillskip\z@
20377     \@tempdima\unitindent
20378     \parindent\z@
20379     \leavevmode
20380     \hbox{}\hspace -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
20381     \hspace 1em \nobreak{\slshape #3}\par
20382   }%
20383   \fi}
20384 \if@oldtoc

```



```

20385 \renewcommand*\l@part[2]{%
20386   \ifnum \c@tocdepth >-2\relax
20387     \addpenalty{-\@highpenalty}%
20388     \addvspace{2.25em \@plus\p@}%
20389     \begingroup
20390       \setlength\@tempdima{3em}%
20391       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20392       \parfillskip -\@pnumwidth
20393       {\leavevmode
20394         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
20395         \nobreak
20396         \global\@nobreaktrue
20397         \everypar{\global\@nobreakfalse\everypar{}}%
20398       \endgroup
20399   \fi}
20400 \else
20401   \renewcommand*\l@part{%
20402     \ifnum \c@tocdepth >-2\relax
20403       \addpenalty{-\@highpenalty}%
20404       \addvspace{2.25em \@plus \p@}%
20405       \@regtocline{0}%
20406     \fi}
20407 \fi
20408 \if@oldtoc
20409 \renewcommand*\l@chapter[2]{%
20410   \addpenalty{-\@highpenalty}%
20411   \vskip 1.0em \@plus\p@
20412   \setlength\@tempdima{1.5em}%
20413   \begingroup
20414     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20415     \parfillskip -\@pnumwidth
20416     \leavevmode \bfseries
20417     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
20418     \hskip -\if@RTL\rightskip\else\leftskip\fi
20419     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
20420     \penalty\@highpenalty
20421   \endgroup}
20422 \else
20423   \renewcommand*\l@chapter{\@regtocline{0}}
20424 \fi
20425 \renewcommand*\left@footnoterule{%
20426   \kern-3\p@
20427   \kern.5\baselineskip
20428   \hrule\@width\unitindent
20429   \kern.4\baselineskip
20430 }
20431 \renewcommand*\right@footnoterule{%
20432   \kern-3\p@
20433   \kern.5\baselineskip
20434   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
20435   \kern.4\baselineskip}
20436 \renewenvironment{thebibliography}[1]
20437   {\chapter*\bibname}%
20438   \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%

```



```

20439 \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
20440 \bidi@thebibliography@font@hook%
20441 \list{\@biblabel{\@arabic\c@enumiv}}%
20442     {\settowidth\labelwidth{\@biblabel{#1}}%
20443      \leftmargin\labelwidth
20444      \advance\leftmargin\labelsep
20445      \@openbib@code
20446      \usecounter{enumiv}%
20447      \let\p@enumiv\@empty
20448      \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
20449 \sloppy\clubpenalty4000\widowpenalty4000%
20450 \sfcode`.\@m}
20451 {\def\@noitemerr
20452  {\@latex@warning{Empty `thebibliography' environment}}}%
20453 \endlist}
20454 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
20455 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
20456 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
20457 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
20458 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
20459 \renewcommand*\theequation{%
20460 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
20461 \renewcommand*\thefigure{%
20462 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
20463 \renewcommand*\thetable{%
20464 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
20465 \if@titlepage
20466 \renewcommand*\TitleFont{\rmfamily}
20467 \renewcommand*\maketitle{%
20468 \begin{titlepage}%
20469 \let\footnotesize\small
20470 \let\right@footnoterule\relax
20471 \let\left@footnoterule\relax
20472 \let\textwidth\footnoterule\relax
20473 \let \footnote \thanks
20474 \long\def\@makefnmark##1{\parindent\z@
20475 \def\labelitemi{\textendash}\@revlabeltrue
20476 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
20477 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20478 \if@compatibility\setcounter{page}{0}\fi
20479 \null\vfil
20480 \vskip 60\p@
20481 \begin{center}%
20482 \TitleFont
20483 {\LARGE \def\\{\penalty -\@M}
20484 \if@allcaps
20485 \expandafter\uc@nothanks\@title\thanks\relax
20486 \else
20487 \@title
20488 \fi\par}%
20489 \vskip 3em%
20490 {\large
20491 \lineskip .75em \parindent\z@
20492 \begin{tabular}[t]{c}%

```




```

20493         \if@allcaps
20494             \expandafter\uc@authornothanks \@author\and\relax
20495         \else
20496             \@author
20497         \fi
20498     \end{tabular}\par}%
20499 \vskip 1.5em%
20500 {\large
20501     \if@allcaps
20502         \uppercase\expandafter{\@date}%
20503     \else
20504         \@date
20505     \fi\par}%
20506 \end{center}\par
20507 \@thanks
20508 \vfil\null
20509 \end{titlepage}%
20510 \setcounter{footnote}{0}%
20511 \global\let\thanks\relax
20512 \global\let\maketitle\relax
20513 \global\let\@thanks\@empty
20514 \global\let\@author\@empty
20515 \global\let\@title\@empty
20516 \global\let\@date\@empty
20517 \global\let\title\relax
20518 \global\let\author\relax
20519 \global\let\date\relax
20520 \global\let\and\relax
20521 }
20522 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
20523 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
20524     \futurelet\@tempa\uc@ax}%
20525 \def\uc@ax{%
20526     \ifx\@tempa\relax
20527     \else
20528         \andname \ \ \expandafter\uc@authornothanks
20529     \fi}
20530 \def\uc@tx{\ifx\@tempa\relax
20531     \else \expandafter\uc@ty \fi}
20532 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
20533 \else
20534 \renewcommand*\maketitle{\par
20535     \begingroup
20536         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20537         \def\@makefnmark{\rlap{%
20538             \@textsuperscript{\normalfont\@thefnmark}}}%
20539         \long\def\@makefntext{\@xmakefntext{%
20540             \@textsuperscript{\normalfont\@thefnmark}}}%
20541         \if@twocolumn
20542             \ifnum \col@number=\@ne
20543                 \@maketitle
20544             \else
20545                 \twocolumn[\@maketitle]%
20546             \fi

```



```

20547 \else
20548 \newpage
20549 \global\@topnum\z@
20550 \@maketitle
20551 \fi
20552 \thispagestyle{plain}\@thanks
20553 \endgroup
20554 \setcounter{footnote}{0}%
20555 \global\let\thanks\relax
20556 \global\let\maketitle\relax
20557 \global\let\@maketitle\relax
20558 \global\let\@thanks\@empty
20559 \global\let\@author\@empty
20560 \global\let\@title\@empty
20561 \global\let\@date\@empty
20562 \global\let\title\relax
20563 \global\let\author\relax
20564 \global\let\date\relax
20565 \global\let\and\relax
20566 }
20567 \def\@maketitle{%
20568 \newpage
20569 \null
20570 \vskip 2em%
20571 \begin{center}%
20572 \let \footnote \thanks
20573 {\LARGE \TitleFont \@title \par}%
20574 \vskip 1.5em%
20575 {\large \TitleFont
20576 \lineskip .5em%
20577 \begin{tabular}[t]{c}%
20578 \@author
20579 \end{tabular}\par}%
20580 \vskip 1em%
20581 {\large \TitleFont \@date}%
20582 \end{center}%
20583 \par
20584 \vskip 1.5em}
20585 \fi

```

136 File rapport3-xetex-bidi.def

```

20586 \ProvidesFile{rapport3-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for rapport3 class f
20587 \renewenvironment{theindex}{%
20588 \if@twocolumn
20589 \@restonecolfalse
20590 \else
20591 \@restonecoltrue
20592 \fi
20593 \columnseprule \z@
20594 \columnsep 35\p@
20595 \twocolumn[\@makeschapterhead{\indexname}]%
20596 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
20597 \thispagestyle{plain}\parindent\z@

```



```

20598 \parskip\z@ \@plus .3\p@\relax
20599 \let\item\@idxitem
20600 }{%
20601 \if@restonecol\onecolumn\else\clearpage\fi}
20602 \if@titlepage
20603 \renewcommand*\TitleFont{\rmfamily}
20604 \renewcommand*\maketitle{%
20605 \begin{titlepage}%
20606 \let\footnotesize\small
20607 \let\right@footnoterule\relax
20608 \let\left@footnoterule\relax
20609 \let\textwidth\footnoterule\relax
20610 \let \footnote \thanks
20611 \let \LTRfootnote \LTRthanks
20612 \let \RTLfootnote \RTLthanks
20613 \long\def\@makefnctext##1{\parindent\z@
20614 \def\labelitemi{\textendash}\@revlabeltrue
20615 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
20616 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20617 \if@compatibility\setcounter{page}{0}\fi
20618 \null\vfil
20619 \vskip 60\p@
20620 \begin{center}%
20621 \TitleFont
20622 {\LARGE \def\\{\penalty -\@M}
20623 \if@allcaps
20624 \expandafter\uc@nothanks\@title\thanks\relax
20625 \else
20626 \@title
20627 \fi\par}%
20628 \vskip 3em%
20629 {\large
20630 \lineskip .75em \parindent\z@
20631 \begin{tabular}[t]{c}%
20632 \if@allcaps
20633 \expandafter\uc@authornothanks\@author\and\relax
20634 \else
20635 \@author
20636 \fi
20637 \end{tabular}\par}%
20638 \vskip 1.5em%
20639 {\large
20640 \if@allcaps
20641 \uppercase\expandafter{\@date}%
20642 \else
20643 \@date
20644 \fi\par}%
20645 \end{center}\par
20646 \@thanks
20647 \vfil\null
20648 \end{titlepage}%
20649 \setcounter{footnote}{0}%
20650 \global\let\thanks\relax
20651 \global\let\LTRthanks\relax

```



```

20652 \global\let\RTLthanks\relax
20653 \global\let\maketitle\relax
20654 \global\let\@thanks\@empty
20655 \global\let\@author\@empty
20656 \global\let\@title\@empty
20657 \global\let\@date\@empty
20658 \global\let\title\relax
20659 \global\let\author\relax
20660 \global\let\date\relax
20661 \global\let\and\relax
20662 }
20663 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
20664 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
20665 \futurelet\@tempa\uc@ax}
20666 \def\uc@ax{%
20667 \ifx\@tempa\relax
20668 \else
20669 \ \andname \ \expandafter\uc@authornothanks
20670 \fi}
20671 \def\uc@tx{\ifx\@tempa\relax
20672 \else \expandafter\uc@ty \fi}
20673 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
20674 \else
20675 \renewcommand*\maketitle{\par
20676 \begingroup
20677 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20678 \def\@makefnmark{\rlap{%
20679 \@textsuperscript{\normalfont\@thefnmark}}}%
20680 \long\def\@makefntext{\@xmakefntext{%
20681 \@textsuperscript{\normalfont\@thefnmark}}}%
20682 \if@twocolumn
20683 \ifnum \col@number=\@one
20684 \@maketitle
20685 \else
20686 \twocolumn[\@maketitle]%
20687 \fi
20688 \else
20689 \newpage
20690 \global\@topnum\z@
20691 \@maketitle
20692 \fi
20693 \thispagestyle{plain}\@thanks
20694 \endgroup
20695 \setcounter{footnote}{0}%
20696 \global\let\thanks\relax
20697 \global\let\LTRthanks\relax
20698 \global\let\RTLthanks\relax
20699 \global\let\maketitle\relax
20700 \global\let\@maketitle\relax
20701 \global\let\@thanks\@empty
20702 \global\let\@author\@empty
20703 \global\let\@title\@empty
20704 \global\let\@date\@empty
20705 \global\let\title\relax

```



```

20706 \global\let\author\relax
20707 \global\let\date\relax
20708 \global\let\and\relax
20709 }
20710 \def\@maketitle{%
20711 \newpage
20712 \null
20713 \vskip 2em%
20714 \if@titlecentered
20715 \begin{center}%
20716 \let \footnote \thanks
20717 \let \LTRfootnote \LTRthanks
20718 \let \RTLfootnote \RTLthanks
20719 {\LARGE \TitleFont \@title \par}%
20720 \vskip 1.5em%
20721 {\large \TitleFont
20722 \lineskip .5em%
20723 \begin{tabular}[t]{c}%
20724 \@author
20725 \end{tabular}\par}%
20726 \vskip 1em%
20727 {\large \TitleFont \@date}%
20728 \end{center}%
20729 \else
20730 {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
20731 {\large \TitleFont \lineskip .5em \tabcolsep\z@
20732 \def\and{%% \begin{tabular} has already started
20733 \end{tabular}\hskip 1em plus .17fil
20734 \ifRTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabular}
20735 \ifRTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}}
20736 \vskip 1em {\large \TitleFont \@date}
20737 \fi
20738 \par
20739 \vskip 1.5em}
20740 \fi
20741 \renewcommand*\@regtocline[3]{%
20742 \ifnum #1>\c@tocdepth
20743 \else
20744 \vskip\z@\@plus.2\p@
20745 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
20746 \ifRTL\righskip\else\leftskip\fi\unitindent
20747 \ifRTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
20748 \parfillskip\z@
20749 \@tempdima\unitindent
20750 \parindent\z@
20751 \leavevmode
20752 \hbox{}\hskip -\ifRTL\righskip\else\leftskip\fi\relax#2\nobreak
20753 \hskip 1em \nobreak{\slshape #3}\par
20754 }%
20755 \fi}
20756 \if@oldtoc
20757 \renewcommand*\l@part[2]{%
20758 \ifnum \c@tocdepth >-2\relax
20759 \addpenalty{-\@highpenalty}%

```



```

20760 \addvspace{2.25em \@plus\p}%
20761 \begingroup
20762 \setlength\@tempdima{3em}%
20763 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20764 \parfillskip -\@pnumwidth
20765 {\leavevmode
20766 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
20767 \nobreak
20768 \global\@nobreaktrue
20769 \everypar{\global\@nobreakfalse\everypar{}}%
20770 \endgroup
20771 \fi}
20772 \else
20773 \renewcommand*\l@part{%
20774 \ifnum \c@tocdepth >-2\relax
20775 \addpenalty{-\@highpenalty}%
20776 \addvspace{2.25em \@plus \p}%
20777 \@regtocline{0}%
20778 \fi}
20779 \fi
20780 \if@oldtoc
20781 \renewcommand*\l@chapter[2]{%
20782 \addpenalty{-\@highpenalty}%
20783 \vskip 1.0em \@plus\p@
20784 \setlength\@tempdima{1.5em}%
20785 \begingroup
20786 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20787 \parfillskip -\@pnumwidth
20788 \leavevmode \bfseries
20789 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
20790 \hskip -\if@RTL\rightskip\else\leftskip\fi
20791 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
20792 \penalty\@highpenalty
20793 \endgroup}
20794 \else
20795 \renewcommand*\l@chapter{\@regtocline{0}}
20796 \fi
20797 \renewcommand*\head@style{%
20798 \interlinepenalty \@M
20799 \hyphenpenalty=\@M \exhyphenpenalty=\@M
20800 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
20801 \if@titlepage
20802 \renewenvironment{abstract}{%
20803 \titlepage
20804 \null\vfil
20805 \section*{\SectFont\abstractname}%
20806 \noindent\ignorespaces}
20807 {\par\vfil\null\endtitlepage}
20808 \else
20809 \renewenvironment{abstract}{%
20810 \if@twocolumn
20811 \section*{\abstractname}%
20812 \else
20813 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent

```



```

20814         \section*{\small\SectFont\abstractname}%
20815         \noindent\ignorespaces
20816     \fi}
20817     {\if@twocolumn\else\par\egroup\fi}
20818 \fi
20819 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
20820 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\csubsection}
20821 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\csubsubsection}
20822 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\cparagraph}
20823 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\csubparagraph}
20824 \renewcommand*\thefigure{%
20825     \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
20826 \renewcommand*\thetable{%
20827     \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
20828 \renewcommand*\theequation{%
20829     \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
20830 \renewenvironment{thebibliography}[1]
20831     {\chapter*{\bibname}%
20832      \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
20833      \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
20834      \bidi@thebibliography@font@hook%
20835      \list{\@biblabel{\@arabic\c@enumiv}}%
20836          {\settowidth\labelwidth{\@biblabel{#1}}%
20837           \leftmargin\labelwidth
20838           \advance\leftmargin\labelsep
20839           \openbib@code
20840           \usecounter{enumiv}%
20841           \let\p@enumiv\@empty
20842           \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
20843      \sloppy\clubpenalty4000\widowpenalty4000%
20844      \sfcode`. \@m}
20845      {\def\@noitemerr
20846       {\@latex@warning{Empty `thebibliography' environment}}}%
20847      \endlist}
20848 \renewcommand*\left@footnoterule{%
20849     \kern-3\p@
20850     \kern.5\baselineskip
20851     \hrule\@width\unitindent
20852     \kern.4\baselineskip
20853 }
20854 \renewcommand*\right@footnoterule{%
20855     \kern-3\p@
20856     \kern.5\baselineskip
20857     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
20858     \kern.4\baselineskip}
20859 \renewcommand*\head@style{%
20860     \interlinepenalty \@M
20861     \hyphenpenalty=\@M \exhyphenpenalty=\@M
20862     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}

```

137 File refrep-xetex-bidi.def

```

20863 \ProvidesFile{refrep-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for refrep class for X
20864 \if@titlepage

```



```

20865 \renewcommand\maketitle{\begin{titlepage}%
20866 \let\footnotesize\small
20867 \let\right@footnoterule\relax
20868 \let\left@footnoterule\relax
20869 \let\textwidth@footnoterule\relax
20870 \let\footnote\thanks
20871 \let\LTRfootnote\LTRthanks
20872 \let\RTLfootnote\RTLthanks
20873 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
20874 \def\@makefnmark%
20875     {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
20876 \long\def\@makefnmark##1{%
20877     \setpar{\@par
20878         \@tempdima = \hspace
20879         \advance\@tempdima -1em
20880         \parshape \@ne 1em \@tempdima}%
20881     \par\parindent 1em \noindent
20882     \hb@xt@\z@{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
20883 \null\vfil
20884 \vskip 60\p@
20885 \begin{center}%
20886     {\LARGE \@title \par}%
20887     \vskip 3em%
20888     {\large
20889         \lineskip .75em%
20890         \begin{tabular}[t]{c}%
20891             \@author
20892         \end{tabular}\par}%
20893     \vskip 1.5em%
20894     {\large \@date \par}%           % Set date in \large size.
20895 \end{center}\par
20896 \@thanks
20897 \vfil\null
20898 \end{titlepage}%
20899 \setcounter{footnote}{0}%
20900 \global\let\thanks\relax
20901 \global\let\LTRthanks\relax
20902 \global\let\RTLthanks\relax
20903 \global\let\maketitle\relax
20904 \global\let\@thanks\@empty
20905 \global\let\@author\@empty
20906 \global\let\@date\@empty
20907 \global\let\@title\@empty
20908 \global\let\title\relax
20909 \global\let\author\relax
20910 \global\let\date\relax
20911 \global\let\and\relax
20912 }
20913 \else
20914 \renewcommand\maketitle{\par
20915     \begingroup
20916         \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
20917         \def\@makefnmark%
20918             {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%

```




```

20919 \long\def\@makefntext##1{%
20920 \setpar{\@par
20921 \tempdima = \hsize
20922 \advance\tempdima -1em
20923 \parshape \@ne 1em \tempdima}%
20924 \par\parindent 1em \noindent
20925 \hb@xt@\z@\{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
20926 \if@twocolumn
20927 \ifnum \col@number=\@ne
20928 \maketitle
20929 \else
20930 \twocolumn[\maketitle]%
20931 \fi
20932 \else
20933 \newpage
20934 \global\@topnum\z@ % Prevents figures from going at top of page.
20935 \maketitle
20936 \fi
20937 \thispagestyle{empty}\@thanks
20938 \endgroup
20939 \setcounter{footnote}{0}%
20940 \global\let\thanks\relax
20941 \global\let\LTRthanks\relax
20942 \global\let\RTLthanks\relax
20943 \global\let\maketitle\relax
20944 \global\let\@maketitle\relax
20945 \global\let\@thanks\@empty
20946 \global\let\@author\@empty
20947 \global\let\@date\@empty
20948 \global\let\@title\@empty
20949 \global\let\title\relax
20950 \global\let\author\relax
20951 \global\let\date\relax
20952 \global\let\and\relax
20953 }
20954 \def\@maketitle{%
20955 \newpage
20956 \null
20957 \longthickrule\vskip1.5em%
20958 \let \footnote \thanks
20959 \let \LTRfootnote \LTRthanks
20960 \let \RTLfootnote \RTLthanks
20961 {\secshape \parskip\z@ \parindent\z@
20962 \Large\bfseries \@title \par}%
20963 \vskip1.5em\longthickrule\vskip1.5em%
20964 {\normalsize
20965 \lineskip .5em%
20966 \begin{flushright}%
20967 {\slshape\@author\par}
20968 \vskip 1em%
20969 {\@date}%
20970 \end{flushright}\par}%
20971 \vskip 1.5em}
20972 \fi

```



```

20973 \renewcommand*\l@part[2]{%
20974   \ifnum \c@tocdepth >-2\relax
20975     \addpenalty{-\@highpenalty}%
20976     \addvspace{2.25em \@plus\p@}%
20977     \begingroup
20978       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20979       \parfillskip -\@pnumwidth
20980       {\leavevmode
20981         \large \bfseries #1\hfil \hbox to\@pnumwidth{\hss #2}}\par
20982       \nobreak
20983       \global\@nobreaktrue
20984       \everypar{\global\@nobreakfalse\everypar{}}%
20985     \endgroup
20986   \fi}
20987 \renewcommand*\l@chapter[2]{%
20988   \ifnum \c@tocdepth >\m@ne
20989     \addpenalty{-\@highpenalty}%
20990     \vskip 1.0em \@plus\p@
20991     \setlength\@tempdima{1.5em}%
20992     \begingroup
20993       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20994       \parfillskip -\@pnumwidth
20995       \leavevmode \bfseries
20996       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
20997       \hskip -\if@RTL\rightskip\else\leftskip\fi
20998       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
20999       \penalty\@highpenalty
21000     \endgroup
21001   \fi}
21002 \renewcommand\secshape{\if@RTL\rightskip\else\leftskip\fi=-\leftmarginwidth%
21003   \if@RTL\leftskip\else\rightskip\fi=\@flushglue%
21004   \hyphenpenalty=2000}
21005 \renewcommand\left@footnoterule{%
21006   \kern-3\p@
21007   \hrule\@width.4\columnwidth
21008   \kern 2.6\p@}
21009 \renewcommand\right@footnoterule{%
21010   \kern-3\p@
21011   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
21012   \kern2.6\p@}
21013 \renewcommand\theequation
21014 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
21015 \renewcommand\thefigure
21016 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
21017 \renewcommand\thetable%
21018 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
21019 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
21020 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
21021 \renewcommand\thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
21022 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
21023 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
21024 \renewenvironment{thebibliography}[1]
21025 {\chapter*{\bibname
21026   \@mkboth{\bibname}{\bibname}}%

```



```

21027 \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
21028 \bidi@thebibliography@font@hook%
21029 \list{\@biblabel{\@arabic\c@enumiv}}%
21030 {\settowidth\labelwidth{\@biblabel{#1}}%
21031 \leftmargin\labelwidth
21032 \advance\leftmargin\labelsep
21033 \@openbib@code
21034 \usecounter{enumiv}%
21035 \let\p@enumiv\@empty
21036 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
21037 \sloppy
21038 \clubpenalty4000
21039 \@clubpenalty \clubpenalty
21040 \widowpenalty4000%
21041 \sfcode\.\@m
21042 {\def\@noitemerr
21043 {\@latex@warning{Empty `thebibliography' environment}}}%
21044 \endlist}

```

138 File report-xetex-bidi.def

```

21045 \ProvidesFile{report-xetex-bidi.def}[2025/09/04 v1.0 bidi adaptations for standard report cl
21046 \renewenvironment{theindex}
21047 {\if@twocolumn
21048 \@restonecolfalse
21049 \else
21050 \@restonecoltrue
21051 \fi
21052 \columnseprule \z@
21053 \columnsep 35\p@
21054 \twocolumn[\@makeschapterhead{\indexname}}%
21055 \@mkboth{\MakeUppercase\indexname}%
21056 {\MakeUppercase\indexname}%
21057 \thispagestyle{plain}\parindent\z@
21058 \parskip\z@ \@plus .3\p@\relax
21059 \let\item\@idxitem}
21060 {\if@restonecol\onecolumn\else\clearpage\fi}
21061 \if@titlepage
21062 \renewcommand\maketitle{\begin{titlepage}%
21063 \let\footnotesize\small
21064 \let\right@footnoterule\relax
21065 \let\left@footnoterule\relax
21066 \let\textwidth\footnoterule\relax
21067 \let \footnote \thanks
21068 \let \LTRfootnote \LTRthanks
21069 \let \RTLfootnote \RTLthanks
21070 \null\vfil
21071 \vskip 60\p@
21072 \begin{center}%
21073 {\LARGE \@title \par}%
21074 \vskip 3em%
21075 {\large
21076 \lineskip .75em%
21077 \begin{tabular}[t]{c}%

```



```

21078         \@author
21079     \end{tabular}\par}%
21080     \vskip 1.5em%
21081     {\large \@date \par}%           % Set date in \large size.
21082 \end{center}\par
21083 \@thanks
21084 \vfil\null
21085 \end{titlepage}%
21086 \setcounter{footnote}{0}%
21087 \global\let\thanks\relax
21088 \global\let\LTRthanks\relax
21089 \global\let\RTLthanks\relax
21090 \global\let\maketitle\relax
21091 \global\let\@thanks\@empty
21092 \global\let\@author\@empty
21093 \global\let\@date\@empty
21094 \global\let\@title\@empty
21095 \global\let\title\relax
21096 \global\let\author\relax
21097 \global\let\date\relax
21098 \global\let\and\relax
21099 }
21100 \else
21101 \renewcommand\maketitle{\par
21102   \begingroup
21103     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
21104     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
21105     \long\def\@makefntext##1{\parindent 1em\noindent
21106       \hb@xt@1.8em{%
21107         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
21108     \if@twocolumn
21109       \ifnum \col@number=\@one
21110         \@maketitle
21111       \else
21112         \twocolumn[\@maketitle]%
21113       \fi
21114     \else
21115       \newpage
21116       \global\@topnum\z@   % Prevents figures from going at top of page.
21117       \@maketitle
21118     \fi
21119     \thispagestyle{plain}\@thanks
21120   \endgroup
21121   \setcounter{footnote}{0}%
21122   \global\let\thanks\relax
21123   \global\let\LTRthanks\relax
21124   \global\let\RTLthanks\relax
21125   \global\let\maketitle\relax
21126   \global\let\@maketitle\relax
21127   \global\let\@thanks\@empty
21128   \global\let\@author\@empty
21129   \global\let\@date\@empty
21130   \global\let\@title\@empty
21131   \global\let\title\relax

```



```

21132 \global\let\author\relax
21133 \global\let\date\relax
21134 \global\let\and\relax
21135 }
21136 \def\@maketitle{%
21137 \newpage
21138 \null
21139 \vskip 2em%
21140 \begin{center}%
21141 \let \footnote \thanks
21142 \let \LTRfootnote \LTRthanks
21143 \let \RTLfootnote \RTLthanks
21144 {\LARGE \@title \par}%
21145 \vskip 1.5em%
21146 {\large
21147 \lineskip .5em%
21148 \begin{tabular}[t]{c}%
21149 \@author
21150 \end{tabular}\par}%
21151 \vskip 1em%
21152 {\large \@date}%
21153 \end{center}%
21154 \par
21155 \vskip 1.5em}
21156 \fi
21157 \IfPackageLoadedF{tocloft}{%
21158 \renewcommand*\l@part[2]{%
21159 \ifnum \c@tocdepth >-2\relax
21160 \addpenalty{-\@highpenalty}%
21161 \addvspace{2.25em \@plus\p@}%
21162 \setlength\@tempdima{3em}%
21163 \begingroup
21164 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21165 \parfillskip -\@pnumwidth
21166 {\leavevmode
21167 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
21168 \nobreak
21169 \global\@nobreaktrue
21170 \everypar{\global\@nobreakfalse\everypar{}}%
21171 \endgroup
21172 \fi}
21173 \renewcommand*\l@chapter[2]{%
21174 \ifnum \c@tocdepth >\m@ne
21175 \addpenalty{-\@highpenalty}%
21176 \vskip 1.0em \@plus\p@
21177 \setlength\@tempdima{1.5em}%
21178 \begingroup
21179 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21180 \parfillskip -\@pnumwidth
21181 \leavevmode \bfseries
21182 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
21183 \hskip -\if@RTL\rightskip\else\leftskip\fi
21184 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
21185 \penalty\@highpenalty

```



```

21186 \endgroup
21187 \fi}
21188 }
21189 \renewcommand\left@footnoterule{%
21190 \kern-3\p@
21191 \hrule\@width.4\columnwidth
21192 \kern2.6\p@}
21193 \renewcommand\right@footnoterule{%
21194 \kern-3\p@
21195 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
21196 \kern2.6\p@}
21197 \renewcommand\theequation
21198 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
21199 \renewcommand \thefigure
21200 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
21201 \renewcommand \thetable
21202 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
21203 \renewcommand \thechapter {\@arabic\c@chapter}
21204 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
21205 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
21206 \renewcommand \thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
21207 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
21208 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
21209 \def\@makechapterhead#1{%
21210 \vspace*{50\p@}%
21211 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
21212 \ifnum \c@secnumdepth >\m@ne
21213 \huge\bfseries \@chapapp\space \thechapter
21214 \par\nobreak
21215 \vskip 20\p@
21216 \fi
21217 \interlinepenalty\@M
21218 \Huge \bfseries #1\par\nobreak
21219 \vskip 40\p@
21220 }}
21221 \def\@makeschapterhead#1{%
21222 \vspace*{50\p@}%
21223 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
21224 \normalfont
21225 \interlinepenalty\@M
21226 \Huge \bfseries #1\par\nobreak
21227 \vskip 40\p@
21228 }}
21229 \IfPackageLoadedF{natbib}{%
21230 \renewenvironment{thebibliography}[1]
21231 {\chapter*{\bibname}%
21232 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
21233 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21234 \bidi@thebibliography@font@hook%
21235 \list{\@biblabel{\@arabic\c@enumiv}}%
21236 {\settowidth\labelwidth{\@biblabel{#1}}%
21237 \leftmargin\labelwidth
21238 \advance\leftmargin\labelsep
21239 \@openbib@code

```



```

21240         \usecounter{enumiv}%
21241         \let\p@enumiv\@empty
21242         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
21243     \sloppy
21244     \clubpenalty4000
21245     \@clubpenalty \clubpenalty
21246     \widowpenalty4000%
21247     \sfcode`.\@m}
21248 {\def\@noitemerr
21249   {\@latex@warning{Empty `thebibliography' environment}}}%
21250 \endlist}
21251 }

```

139 File rotating-xetex-bidi.def

```

21252 \ProvidesFile{rotating-xetex-bidi.def}[2013/05/22 v0.2 bidi adaptations for rotating package]
21253 \def\end@rotfloat{%
21254   \end{minipage}\end{lrbox}%
21255   \stepcounter{r@tfl@t}%
21256   \rot@label{RF\ther@tfl@t}%
21257   \rot@pageref{RF\ther@tfl@t}{\R@@page}%
21258   \edef\@tempa{Adding sideways \@cuptype\space on page \R@@page\space}
21259   \rot@mess@toks\expandafter{\@tempa}
21260   \wd\rot@float@box\z@
21261   \ht\rot@float@box\z@
21262   \dp\rot@float@box\z@
21263   \vboxL to \textheight{%
21264     \setkeys{Grot}{units=360}%
21265     \if@rot@twoside
21266     \else
21267       \let\R@@page\rot@LR
21268     \fi
21269     \ifthenelse{\isodd{\R@@page}}{%
21270       \if@rot@twoside
21271         \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
21272       \fi
21273       \vfill
21274       \@@line{%
21275         \hskip\rotFPtop
21276         \rotatebox{90}{\box\rot@float@box}%
21277         \hskip\rotFPbot
21278       }%
21279     }{%
21280       \if@rot@twoside
21281         \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
21282       \fi
21283       \@@line{%
21284         \hskip\rotFPbot
21285         \rotatebox{-90}{\box\rot@float@box}%
21286         \hskip\rotFPtop
21287       }%
21288       \vfill
21289     }%
21290     \rot@message{\the\rot@mess@toks}

```



```

21291 }%
21292 \end@float
21293 }
21294 \let\endsidewaysfigure\end@rotfloat
21295 \let\endsidewaysstable\end@rotfloat
21296 \def\end@rotdblfloat{%
21297   \end{minipage}\end{lrbox}%
21298   \stepcounter{r@tfl@t}%
21299   \rot@label{RF\ther@tfl@t}%
21300   \rot@pageref{RF\ther@tfl@t}{\R@@page}%
21301   \edef\@tempa{Adding sideways \capttype\space on page \R@@page\space}
21302   \rot@mess@toks\expandafter{\@tempa}
21303   \@tempdima\ht\rot@float@box
21304   \advance\@tempdima by \dp\rot@float@box
21305   \wd\rot@float@box\z@
21306   \ht\rot@float@box\z@
21307   \dp\rot@float@box\z@
21308   \vboxL to \textheight{%
21309     \setkeys{Grot}{units=360}%
21310     \if@rot@twoside
21311     \else
21312       \let\R@@page\rot@LR
21313     \fi
21314     \ifthenelse{\isodd{\R@@page}}{%
21315       \ifrot@messages
21316       \if@rot@twoside
21317       \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}}%
21318 \fi
21319   \fi
21320   \vfill
21321   \@@line{%
21322     \hskip\rotFPtop
21323     \rotatebox{90}{\box\rot@float@box}%
21324     \hskip\rotFPbot
21325   }%
21326   }{%
21327     \ifrot@messages
21328     \if@rot@twoside
21329     \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}}%
21330 \fi
21331   \fi%
21332   \@@line{%
21333     \hskip\rotFPbot
21334     \rotatebox{-90}{\box\rot@float@box}%
21335     \hskip\rotFPtop
21336   }%
21337   \vfill
21338   }%
21339   \rot@message{\the\rot@mess@toks}%
21340 }%
21341 \end@dblfloat
21342 }
21343 \def\turn#1{%
21344   \Grot@setangle{#1}%

```




```

21345 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21346 \def\endturn{%
21347 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21348 \unskip\color@endbox
21349 \Grot@x\z@
21350 \Grot@y\z@
21351 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21352 }
21353 \def\rotate#1{%
21354 \Grot@setangle{#1}%
21355 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21356 \def\endrotate{%
21357 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21358 \unskip\color@endbox
21359 \Grot@x\z@
21360 \Grot@y\z@
21361 \wd0\z@\dp0\z@\ht0\z@
21362 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21363 }
21364 \def\turnbox#1#2{%
21365 \Grot@setangle{#1}%
21366 \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi#2\ifmmode\if@RTL\endR\fi\fi}
21367 \Grot@x\z@\Grot@y\z@
21368 \wd0\z@\dp0\z@\ht0\z@
21369 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21370 }
21371 \def\sideways{%
21372 \Grot@setangle{90}%
21373 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21374 \def\endsideways{%
21375 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21376 \unskip\color@endbox
21377 \Grot@x\z@
21378 \Grot@y\z@
21379 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21380 }

```

140 File `scrartcl-xetex-bidi.def`

```

21381 \ProvidesFile{scrartcl-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrartcl class f
21382 \newcommand{\scr@saved@LTRfootnotetext}{}
21383 \newcommand{\scr@saved@RTLfootnotetext}{}
21384 \let\scr@saved@footnotetext\@footnotetext
21385 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
21386 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
21387 \renewcommand{\@footnotetext}[1]{%
21388 \scr@saved@footnotetext{#1}%
21389 \csname FN@mfb@prepare\endcsname
21390 }
21391 \renewcommand{\@LTRfootnotetext}[1]{%
21392 \scr@saved@LTRfootnotetext{#1}%
21393 \csname FN@mfb@prepare\endcsname
21394 }
21395 \renewcommand{\@RTLfootnotetext}[1]{%

```



```

21396 \scr@saved@RTLfootnotetext{#1}%
21397 \csname FN@mfb@prepare\endcsname
21398 }
21399 \renewcommand\deffootnote[4][]{%
21400 \expandafter\ifnum\scr@v@is@ge{3.22}\relax
21401 \long\def\@makefntext##1{%
21402 \ExecuteDoHook{footnote/text/begin}%
21403 \raggedfootnote
21404 \if@RTL
21405 \rightskip
21406 \else
21407 \leftskip
21408 \fi
21409 #2
21410 \l@addto@macro\@trivlist{%
21411 \ifnum\@listdepth=\@ne
21412 \if@RTL
21413 \advance\rightmargin #2\relax
21414 \else
21415 \advance\leftmargin #2\relax
21416 \fi
21417 \fi
21418 }%
21419 \parindent #3\noindent
21420 \IfArgIsEmpty{#1}{-}{%
21421 \hskip \dimexpr #1-#2\relax
21422 }%
21423 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21424 \ExecuteDoHook{footnote/text/end}%
21425 }%
21426 \else
21427 \ClassInfo{\KOMAClassName}{%
21428 Using old \string\@makefntext\space due to compatibility
21429 level\MessageBreak
21430 less than 3.22}%
21431 \long\def\@makefntext##1{%
21432 \setlength{\@tempdimc}{#3}%
21433 \def\@tempa{#1}\ifx\@tempa\@empty
21434 \setpar{\@par
21435 \@tempdima = \hsize
21436 \addtolength{\@tempdima}{-#2}%
21437 \if@RTL
21438 \parshape \@ne \z@ \@tempdima
21439 \else
21440 \parshape \@ne #2 \@tempdima
21441 \fi}%
21442 \else
21443 \addtolength{\@tempdimc}{#2}%
21444 \addtolength{\@tempdimc}{-#1}%
21445 \setpar{\@par
21446 \@tempdima = \hsize
21447 \addtolength{\@tempdima}{-#1}%
21448 \@tempdimb = \hsize
21449 \addtolength{\@tempdimb}{-#2}%

```



```

21450         \if@RTL
21451             \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
21452         \else
21453             \parshape \tw@ #1 \@tempdima #2 \@tempdimb
21454         \fi
21455     }%
21456 \fi
21457 \par
21458 \parindent \@tempdimc \noindent
21459 \ftn@font \hbox to \z@ {\hss \@makefnmark} ##1%
21460 }%
21461 \fi
21462 \def \@makefnmark {\hbox {\ftn@font {#4}}}%
21463 }
21464 \def footnote [1em] {1.5em} {1em} {\textsuperscript {\thefootnotemark}}
21465 \renewcommand * \left@footnoterule {%
21466     \normalsize \ftn@rule@test@values
21467     \kern - \dimexpr 2.6 \p@ + \ftn@rule@height \relax
21468     \ifx \@textbottom \relax \else \vskip \z@ \@plus .05fil \fi
21469     {\usekomafont {footnoterule} {%
21470         \hrule \@height \ftn@rule@height \@width \ftn@rule@width}}%
21471     \kern 2.6 \p@}
21472 \renewcommand * \right@footnoterule {%
21473     \normalsize \ftn@rule@test@values
21474     \kern - \dimexpr 2.6 \p@ + \ftn@rule@height \relax
21475     \ifx \@textbottom \relax \else \vskip \z@ \@plus .05fil \fi
21476     {\usekomafont {footnoterule} {%
21477         \hbox to \columnwidth {\hskip \dimexpr \columnwidth - \ftn@rule@width \relax \leavevmode \
21478         \kern 2.6 \p@}
21479 \renewcommand * \maketitle [1] [1] {%
21480     \expandafter \ifnum \csname scr@v@3.12 \endcsname > \scr@compatibility \relax
21481     \else
21482         \def \and {%
21483             \end {tabular} %
21484             \hskip 1em \@plus .17fil %
21485             \begin {tabular} [t] {c} %
21486         }%
21487     \fi
21488     \if@titlepage
21489         \begin {titlepage}
21490             \setcounter {page} {%
21491                 #1%
21492             }%
21493             \if@titlepageiscoverpage
21494                 \edef \titlepage@restore {%
21495                     \noexpand \endgroup
21496                     \noexpand \global \noexpand \@colht \the \@colht
21497                     \noexpand \global \noexpand \@colroom \the \@colroom
21498                     \noexpand \global \vsize \the \vsize
21499                     \noexpand \global \noexpand \@titlepageiscoverpage false
21500                     \noexpand \let \noexpand \titlepage@restore \noexpand \relax
21501                 }%
21502                 \begin group
21503                 \topmargin = \dimexpr \coverpagetopmargin - 1in \relax

```



```

21504 \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
21505 \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
21506 \textwidth=\dimexpr
21507 \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
21508 \textheight=\dimexpr
21509 \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
21510 \headheight=0pt
21511 \headsep=0pt
21512 \footskip=\baselineskip
21513 \@colht=\textheight
21514 \@colroom=\textheight
21515 \vsize=\textheight
21516 \columnwidth=\textwidth
21517 \hsize=\columnwidth
21518 \linewidth=\hsize
21519 \else
21520 \let\titlepage@restore\relax
21521 \fi
21522 \let\footnotesize\small
21523 \let\right@footnoterule\relax
21524 \let\left@footnoterule\relax
21525 \let\textwidth@footnoterule\relax
21526 \let\footnote\thanks
21527 \let\LTRfootnote\LTRthanks
21528 \let\RTLfootnote\RTLthanks
21529 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21530 \let\@oldmakefnmark\@makefnmark
21531 \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
21532 \ifx\@extratitle\@empty
21533 \ifx\@frontispiece\@empty
21534 \else
21535 \if@twoside\mbox{}\next@tpage\fi
21536 \noindent\@frontispiece\next@tdpage
21537 \fi
21538 \else
21539 \noindent\@extratitle
21540 \ifx\@frontispiece\@empty
21541 \else
21542 \next@tpage
21543 \noindent\@frontispiece
21544 \fi
21545 \next@tdpage
21546 \fi
21547 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
21548 \ifx\@titlehead\@empty \else
21549 \begin{minipage}[t]{\textwidth}%
21550 \usekomafont{titlehead}{\@titlehead\par}%
21551 \end{minipage}\par
21552 \fi
21553 \null\vfill
21554 \begin{center}
21555 \ifx\@subject\@empty \else
21556 {\usekomafont{subject}{\@subject\par}}%
21557 \vskip 3em

```



```

21558 \fi
21559 {\usekomafont{title}{\huge \@title\par}}%
21560 \vskip 1em
21561 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
21562 \vskip 2em
21563 {%
21564 \usekomafont{author}{%
21565 \lineskip 0.75em
21566 \begin{tabular}[t]{c}
21567 \@author
21568 \end{tabular}\par
21569 }%
21570 }%
21571 \vskip 1.5em
21572 {\usekomafont{date}{\@date \par}}%
21573 \vskip \z@ \@plus3fill
21574 {\usekomafont{publishers}{\@publishers \par}}%
21575 \vskip 3em
21576 \end{center}\par
21577 \@thanks\global\let\@thanks\@empty
21578 \vfill\null
21579 \if@twoside
21580 \@tempswatrue
21581 \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
21582 \else
21583 \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
21584 \@tempswafalse
21585 \fi\fi
21586 \fi
21587 \if@tempswa
21588 \next@tpage
21589 \begin{minipage}[t]{\textwidth}
21590 \@uppertitleback
21591 \end{minipage}\par
21592 \vfill
21593 \begin{minipage}[b]{\textwidth}
21594 \@lowertitleback
21595 \end{minipage}\par
21596 \@thanks\global\let\@thanks\@empty
21597 \fi
21598 \else
21599 \ifx\@uppertitleback\@empty\else
21600 \ClassWarning{\KOMAClassName}{%
21601 non empty \string\uppertitleback\space ignored
21602 by \string\maketitle\MessageBreak
21603 in `twoside=false' mode%
21604 }%
21605 \fi
21606 \ifx\@lowertitleback\@empty\else
21607 \ClassWarning{\KOMAClassName}{%
21608 non empty \string\lowertitleback\space ignored
21609 by \string\maketitle\MessageBreak
21610 in `twoside=false' mode%
21611 }%

```



```

21612         \fi
21613     \fi
21614     \ifx\@dedication\@empty
21615     \else
21616         \next@tdpage\null\vfill
21617         {\centering\usekomafont{dedication}{\@dedication \par}}%
21618         \vskip \z@ \@plus3fill
21619         \@thanks\global\let\@thanks\@empty
21620         \cleardoubleemptypage
21621     \fi
21622     \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
21623 \end{titlepage}
21624 \else
21625     \par
21626     \@tempcnta=%
21627     #1%
21628     \relax\ifnum\@tempcnta=1\else
21629         \ClassWarning{\KOMAClassName}{%
21630             Optional argument of \string\maketitle\space ignored\MessageBreak
21631             in `titlepage=false' mode%
21632         }%
21633     \fi
21634     \ifx\@uppertitleback\@empty\else
21635         \ClassWarning{\KOMAClassName}{%
21636             non empty \string\uppertitleback\space ignored
21637             by \string\maketitle\MessageBreak
21638             in `titlepage=false' mode%
21639         }%
21640     \fi
21641     \ifx\@lowertitleback\@empty\else
21642         \ClassWarning{\KOMAClassName}{%
21643             non empty \string\lowertitleback\space ignored
21644             by \string\maketitle\MessageBreak
21645             in `titlepage=false' mode%
21646         }%
21647     \fi
21648     \begin{group}
21649         \let\titlepage@restore\relax
21650         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21651         \let\@oldmakefnmark\@makefnmark
21652         \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
21653         \next@tdpage
21654         \if@twocolumn
21655             \ifnum \col@number=\@ne
21656                 \ifx\@extratitle\@empty
21657                     \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21658                 \else
21659                     \@makeextratitle
21660                 \fi
21661                 \ifx\@frontispiece\@empty
21662                     \ifx\@extratitle\@empty\else\next@tdpage\fi
21663                 \else
21664                     \next@tpage
21665                     \@makefrontispiece

```



```

21666         \next@tdpage
21667     \fi
21668     \@maketitle
21669 \else
21670     \ifx\@extratitle\@empty
21671         \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21672     \else
21673         \twocolumn[\@makeextratitle]%
21674     \fi
21675     \ifx\@frontispiece\@empty
21676         \ifx\@extratitle\@empty\else\next@tdpage\fi
21677     \else
21678         \next@tpage
21679         \twocolumn[\@makefrontispiece]%
21680         \next@tdpage
21681     \fi
21682     \twocolumn[\@maketitle]%
21683 \fi
21684 \else
21685     \ifx\@extratitle\@empty
21686         \ifx\@frontispiece\@empty\else \mbox{}\fi
21687     \else
21688         \@makeextratitle
21689     \fi
21690     \ifx\@frontispiece\@empty
21691         \ifx\@extratitle\@empty\else\next@tdpage\fi
21692     \else
21693         \next@tpage
21694         \@makefrontispiece
21695         \next@tdpage
21696     \fi
21697     \@maketitle
21698 \fi
21699     \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
21700     \@thanks\global\let\@thanks\@empty
21701 \endgroup
21702 \fi
21703 \setcounter{footnote}{0}%
21704 \expandafter\ifnum \csname scr@v3.12\endcsname>\scr@compatibility\relax
21705     \let\thanks\relax
21706     \let\LTRthanks\relax
21707     \let\RTLthanks\relax
21708     \let\maketitle\relax
21709     \let\@maketitle\relax
21710     \global\let\@thanks\@empty
21711     \global\let\@author\@empty
21712     \global\let\@date\@empty
21713     \global\let\@title\@empty
21714     \global\let\@subtitle\@empty
21715     \global\let\@extratitle\@empty
21716     \global\let\@frontispiece\@empty
21717     \global\let\@titlehead\@empty
21718     \global\let\@subject\@empty
21719     \global\let\@publishers\@empty

```



```

21720 \global\let\@uppertitleback\@empty
21721 \global\let\@lowertitleback\@empty
21722 \global\let\@dedication\@empty
21723 \global\let\author\relax
21724 \global\let\title\relax
21725 \global\let\extratitle\relax
21726 \global\let\titlehead\relax
21727 \global\let\subject\relax
21728 \global\let\publishers\relax
21729 \global\let\uppertitleback\relax
21730 \global\let\lowertitleback\relax
21731 \global\let\dedication\relax
21732 \global\let\date\relax
21733 \fi
21734 \global\let\and\relax
21735 }%
21736 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
21737 \def\raggedpart{\if@RTL\raggedleft\else\raggedright\fi}
21738 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
21739 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
21740 \renewcommand*{\thesubsubsection}{%
21741 \thesubsection\@SepMark\@arabic\c@subsubsection
21742 }
21743 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
21744 \renewcommand*{\thesubparagraph}{%
21745 \theparagraph\@SepMark\@arabic\c@subparagraph
21746 }
21747 \renewenvironment{thebibliography}[1]{%
21748 \if@bib@break@
21749 \bib@beginhook
21750 \else
21751 \bib@heading
21752 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
21753 \noindent\bibpreamble\par\nobreak
21754 \fi\fi
21755 \bib@beginhook
21756 \bib@before@hook
21757 \fi
21758 \renewcommand{\BreakBibliography}[1]{%
21759 \@bib@break
21760 \end{thebibliography}%
21761 \begingroup ##1\endgroup
21762 \begin{thebibliography}{#1}
21763 }%
21764 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21765 \bidi@thebibliography@font@hook%
21766 \list{%
21767 \@biblabel{\@arabic\c@enumiv}%
21768 }{%
21769 \settowidth\labelwidth{\@biblabel{#1}}%
21770 \leftmargin\labelwidth
21771 \advance\leftmargin\labelsep
21772 \@openbib@code
21773 \if@bib@break@

```




```

21774     \edef\@tempa{%
21775         \noexpand\usecounter{enumiv}%
21776         \noexpand\setcounter{enumiv}{\the\c@enumiv}%
21777     }\@tempa
21778     \no@bib@break
21779 \else
21780     \usecounter{enumiv}%
21781 \fi
21782 \let\p@enumiv\@empty
21783 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
21784 }%
21785 \sloppy\clubpenalty4000 \widowpenalty4000
21786 \sfcode`\.\@m
21787 }{%
21788 \if@bib@break@
21789     \def\@noitemerr{%
21790         \@latex@warning{%
21791             \string\BreakBibliography\space at begin of `thebibliography'
21792             environment\MessageBreak
21793             or following \string\BreakBibliography}%
21794     }%
21795 \else
21796     \def\@noitemerr{%
21797         \@latex@warning{%
21798             Empty `thebibliography' environment or
21799             \string\BreakBibliography\MessageBreak
21800             before end of `thebibliography' environment}%
21801     }%
21802 \fi
21803 \endlist
21804 \if@bib@break@
21805 \else
21806     \bib@after@hook
21807     \let\bib@before@hook\@empty
21808     \let\bib@after@hook\@empty
21809 \fi
21810 \bib@endhook
21811 }
21812 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
21813 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
21814 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
21815 \renewcommand\marginline[1]{%
21816     \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
21817 }
21818 \renewcommand{\@makecaption}[3]{%
21819     \cap@margin
21820     \begingroup
21821         \ifonelinecaptions
21822             \def\stepcounter##1{\advance\value{##1}\@ne}%
21823             \let\refstepcounter\stepcounter
21824             \let\label\@gobble
21825             \let\@footnotetext=\@gobble
21826             \let\@LTRfootnotetext=\@gobble
21827             \let\@RTLfootnotetext=\@gobble

```



```

21828 \let\hypertarget\@gobbletwo
21829 \edef\xnewline{%
21830   \unexpanded{\ClassInfo{\KOMAClassName}{%
21831     Workaround for not recommended usage of \string\\ or\MessageBreak
21832     \string\newline in caption text
21833   }}%
21834   \hspace*{\linewidth}\hspace{1sp}%
21835 }%
21836 \unexpanded\expandafter{\xnewline}%
21837 }%
21838 \edef\xcentercr{%
21839   \unexpanded{\ClassInfo{\KOMAClassName}{%
21840     Workaround for not recommended usage of \string\\ or\MessageBreak
21841     \string\newline in caption text
21842   }}%
21843   \hspace*{\linewidth}\hspace{1sp}%
21844 }%
21845 \unexpanded\expandafter{\xcentercr}%
21846 }%
21847 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
21848 \ifdim\@tempdima>\cap@width
21849   \aftergroup\scr@makemultilinecaption
21850 \else
21851   \aftergroup\scr@makesinglelinecaption
21852 \fi
21853 \else
21854   \aftergroup\scr@makemultilinecaption
21855 \fi
21856 \endgroup
21857 {#1}{#2}{#3}%
21858 }
21859 \renewcommand{\scr@makesinglelinecaption}[3]{%
21860   {%
21861     \usefontofkomafont{caption}{%
21862       \hb@xt@{\hsize}{%
21863         \cap@left
21864         \if@RTL
21865           \beginR
21866         \fi
21867         \scr@makesinglelinecaption{#1}{#2}{#3}%
21868         \if@RTL
21869           \endR
21870         \fi
21871         \cap@right
21872       }\par\kern\dp\strutbox%
21873     }%
21874   }\kern-\dp\strutbox
21875 }
21876 \renewcommand{\@makecaption}[2]{%
21877   \if@captionabove
21878     \vskip\belowcaptionskip
21879   \else
21880     \vskip\abovecaptionskip
21881   \fi

```



```

21882 \@@makecaption\@firstofone{#1}{#2}%
21883 \if@captionabove
21884 \vskip\abovecaptionskip
21885 \else
21886 \vskip\belowcaptionskip
21887 \fi
21888 }
21889
21890 \renewcommand{\scr@@makesinglelinecaption}[3]{%
21891   {\usekomafont{caption}{\strut\ignorespaces
21892     #1{\usekomafont{captionlabel}{#2\captionformat}}}%
21893     \ignorespaces #3\unskip}}%
21894 }
21895
21896 \renewcommand{\scr@makemultilinecaption}[3]{%
21897   {%
21898     \usefontofkomafont{caption}{%
21899       \hb@xt@\hsize{%
21900         \cap@left
21901         \vbox{\hsize\cap@width\linewidth\hsize
21902           \scr@ifundefinedorrelax{@captive}{%
21903             \ClassWarning{\KOMAClassName}{%
21904               `string\caption' outside float.\MessageBreak
21905               Seems you are using `string\caption' outside a
21906               float.\MessageBreak
21907               Maybe you are using a package that uses
21908               `string\makecaption'\MessageBreak
21909               without setting `string@captive' before.\MessageBreak
21910               Because I cannot detect the caption type, I'm using\MessageBreak
21911               the empty one.%
21912             }%
21913             \let@captive@empty
21914           }}%
21915           \scr@ifundefinedorrelax{ragged@captive caption}{\raggedcaption}{%
21916             \@nameuse{ragged@captive caption}%
21917           }%
21918           \ifdofullc@p
21919             \@hangfrom{%
21920               \strut
21921               \scr@smashdp{%
21922                 #1{%
21923                   \usekomafont{caption}{%
21924                     \usekomafont{captionlabel}{#2\captionformat}%
21925                   }%
21926                 }%
21927               }%
21928             }%
21929             {\usekomafont{caption}{#3\scr@endstrut}}\par}%
21930           \else
21931             \ifdim\cap@indent<\z@
21932               \strut
21933               #1{%
21934                 \usekomafont{caption}{%
21935                   \usekomafont{captionlabel}{#2\captionformat}%

```



```

21936         }%
21937     }\par}%
21938     \noindent{\usekomafont{caption}{%
21939         \hspace*{-\cap@indent}\#3\scr@endstrut
21940     }}\par}%
21941 \else
21942     \if@capbreak
21943         \strut
21944         #1{%
21945             {\usekomafont{caption}{%
21946                 \usekomafont{captionlabel}{\#2\captionformat}%
21947             }}%
21948         }\par}%
21949     \noindent\@hangfrom{\hspace*{\cap@indent}}%
21950     {\usekomafont{caption}{\#3\scr@endstrut}}\par}%
21951 \else
21952     \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
21953     {%
21954         \hspace{-\cap@indent}%
21955         \scr@smashdp{%
21956             #1{\usekomafont{caption}{%
21957                 \usekomafont{captionlabel}{\#2\captionformat}%
21958             }}%
21959         }%
21960     }%
21961     {\usekomafont{caption}{\#3\scr@endstrut}}\par}%
21962 }%
21963 \fi
21964 \fi
21965 \fi
21966 }%
21967 \cap@right
21968 }\par\kern\dp\strutbox
21969 }%
21970 }\kern-\dp\strutbox
21971 }
21972
21973 \bidi@AfterFile{longtable-xetex-bidi.def}{%
21974     \if@komalongtable
21975         \renewcommand{\LT@makecaption}[3]{%
21976             \noalign{%
21977                 \if@captionabove
21978                     \vskip\belowcaptionskip
21979                 \else
21980                     \vskip\abovecaptionskip
21981                 \fi
21982             }%
21983             \LT@mcol\LT@cols c{%
21984                 \hbox to\z@{\hss\parbox[t]{\linewidth{%
21985                     \def\@cuptype{table}%
21986                     \@makecaption{\#1}{\#2}{\#3}%
21987                     \endgraf
21988                     \if@captionabove
21989                         \vskip\abovecaptionskip

```



```

21990         \else
21991         \vskip\belowcaptionskip
21992         \fi
21993     }%
21994     \hss
21995 }%
21996 }%
21997 }%
21998 \renewcommand*{\scr@LT@array}{}%
21999 \let\scr@LT@array=\LT@array
22000 \renewcommand*{\LT@array}{%
22001     \let\scr@caption=\LT@caption
22002     \def\captionabove{\noalign{\global\@captionabovetrue}%
22003         \scr@caption}%
22004     \def\captionbelow{\noalign{\global\@captionabovetrue}%
22005         \scr@caption}%
22006     \if@tablecaptionabove
22007         \let\LT@caption=\captionabove
22008     \else
22009         \let\LT@caption=\captionbelow
22010     \fi
22011     \scr@LT@array
22012 }%
22013 \ClassInfo{\KOMAClassName}{%
22014     longtable captions redefined%
22015 }%
22016 \fi
22017 }
22018
22019 \CloneTOCEntryStyle{tocline}{part}
22020 \TOCEntryStyleStartInitCode{part}{%
22021     \expandafter\renewcommand%
22022     \csname scr@tso@#1@linefill\endcsname{\hfill}%
22023     \expandafter\renewcommand%
22024     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
22025     \expandafter\renewcommand%
22026     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22027         {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
22028     \expandafter\renewcommand\expandafter*%
22029     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
22030 }
22031
22032 \CloneTOCEntryStyle{tocline}{section}
22033 \TOCEntryStyleStartInitCode{section}{%
22034     \expandafter\renewcommand%
22035     \csname scr@tso@#1@linefill\endcsname{%
22036         \if@sectionentrywithdots
22037             {\usekomafont{sectionentrydots}{\TOCLineLeaderFill}}\relax
22038         \else
22039             \hfill
22040         \fi
22041     }%
22042     \expandafter\renewcommand%
22043     \csname scr@tso@#1@entryformat\endcsname{\usekomafont{sectionentry}}%

```



```

22044 \expandafter\renewcommand%
22045 \csname scr@tso@#1@pagenumberformat\endcsname[1]{\usekomafont{sectionentry}{\usekomafont{
22046 \expandafter\renewcommand\expandafter*%
22047 \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p0}%
22048 }
22049
22050 \CloneTOCEntryStyle{tocline}{subsection}
22051 \TOCEntryStyleStartInitCode{subsection}{%
22052 \expandafter\renewcommand%
22053 \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
22054 \expandafter\renewcommand%
22055 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22056 {\normalfont\normalcolor #1}}%
22057 }
22058
22059 \CloneTOCEntryStyle{subsection}{default}
22060
22061 \DeclareSectionCommand[%
22062 style=section,%
22063 level=1,%
22064 indent=\z@,%
22065 beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
22066 afterskip=2.3ex \@plus .2ex,%
22067 tocstyle=section,%
22068 tocindent=0pt,%
22069 tocnumwidth=1.5em%
22070 ]{section}
22071 \DeclareSectionCommand[%
22072 style=part,%
22073 level=\z@,%
22074 tocstyle=part,%
22075 toplevel=\m@ne,%
22076 tocindent=\z@,%
22077 tocnumwidth=2em%
22078 ]{part}
22079 \DeclareSectionCommand[%
22080 style=section,%
22081 level=2,%
22082 indent=\z@,%
22083 beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
22084 afterskip=1.5ex \@plus .2ex,%
22085 tocstyle=subsection,%
22086 tocindent=1.5em,%
22087 tocnumwidth=2.3em%
22088 ]{subsection}
22089 \DeclareSectionCommand[%
22090 style=section,%
22091 level=3,%
22092 indent=\z@,%
22093 beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
22094 afterskip=1.5ex \@plus .2ex,%
22095 tocstyle=subsection,%
22096 tocindent=3.8em,%
22097 tocnumwidth=3.2em%

```



```

22098]{subsubsection}
22099\DeclareSectionCommand[%
22100 style=section,%
22101 level=4,%
22102 indent=\z@,%
22103 beforeskip=3.25ex \@plus1ex \@minus.2ex,%
22104 afterskip=-1em,%
22105 tocstyle=subsection,%
22106 tocindentfollows=subsubsection,%
22107 tocindent=7.0em,%
22108 tocnumwidth=4.1em%
22109]{paragraph}
22110\DeclareSectionCommand[%
22111 style=section,%
22112 level=5,%
22113 indent=\scr@parindent,%
22114 beforeskip=3.25ex \@plus1ex \@minus.2ex,%
22115 afterskip=-1em,%
22116 tocstyle=subsection,%
22117 tocindent=10em,%
22118 tocnumwidth=5em%
22119]{subparagraph}

```

141 File scrbook-xetex-bidi.def

```

22120\ProvidesFile{scrbook-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrbook class for
22121\newcommand{\scr@saved@LTRfootnotetext}{}
22122\newcommand{\scr@saved@RTLfootnotetext}{}
22123\let\scr@saved@footnotetext\@footnotetext
22124\let\scr@saved@LTRfootnotetext\@LTRfootnotetext
22125\let\scr@saved@RTLfootnotetext\@RTLfootnotetext
22126\renewcommand{\@footnotetext}[1]{%
22127 \scr@saved@footnotetext{#1}%
22128 \csname FN@mfb@prepare\endcsname
22129 }
22130\renewcommand{\@LTRfootnotetext}[1]{%
22131 \scr@saved@LTRfootnotetext{#1}%
22132 \csname FN@mfb@prepare\endcsname
22133 }
22134\renewcommand{\@RTLfootnotetext}[1]{%
22135 \scr@saved@RTLfootnotetext{#1}%
22136 \csname FN@mfb@prepare\endcsname
22137 }
22138\renewcommand\deffootnote[4][1]{%
22139 \expandafter\ifnum\scr@v@is@ge{3.22}\relax
22140 \long\def\@makefntext#1{%
22141 \ExecuteDoHook{footnote/text/begin}%
22142 \raggedfootnote
22143 \if@RTL
22144 \rightskip
22145 \else
22146 \leftskip
22147 \fi
22148 #2

```



```

22149 \l@addto@macro\@trivlist{%
22150 \ifnum\@listdepth=\@ne\advance
22151 \if@RTL
22152 \rightmargin #2\relax
22153 \else
22154 \leftmargin #2\relax
22155 \fi
22156 \fi
22157 }%
22158 \parindent #3\noindent
22159 \IfArgIsEmpty{#1}{}%
22160 \hskip \dimexpr #1-#2\relax
22161 }%
22162 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22163 \ExecuteDoHook{footnote/text/end}%
22164 }%
22165 \else
22166 \ClassInfo{\KOMAClassName}{%
22167 Using old \string\@makefnmark\space due to compatibility
22168 level\MessageBreak
22169 less than 3.22}%
22170 \long\def\@makefnmark##1{%
22171 \setlength{\@tempdimc}{#3}%
22172 \def\@tempa{#1}\ifx\@tempa\@empty
22173 \setpar{\@par
22174 \@tempdima = \hspace
22175 \addtolength{\@tempdima}{-#2}%
22176 \if@RTL
22177 \parshape \@ne \z@ \@tempdima
22178 \else
22179 \parshape \@ne #2 \@tempdima
22180 \fi
22181 }%
22182 \else
22183 \addtolength{\@tempdimc}{#2}%
22184 \addtolength{\@tempdimc}{-#1}%
22185 \setpar{\@par
22186 \@tempdima = \hspace
22187 \addtolength{\@tempdima}{-#1}%
22188 \@tempdimb = \hspace
22189 \addtolength{\@tempdimb}{-#2}%
22190 \if@RTL
22191 \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
22192 \else
22193 \parshape \tw@ #1 \@tempdima #2 \@tempdimb
22194 \fi
22195 }%
22196 \fi
22197 \par
22198 \parindent\@tempdimc\noindent
22199 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22200 }%
22201 \fi
22202 \def\@makefnmark{\hbox{\ftn@font{#4}}}%

```




```

22203 }
22204 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
22205 \renewcommand*\left@footnoterule{%
22206   \normalsize\ftn@rule@test@values
22207   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
22208   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
22209   {\usekomafont{footnoterule}{%
22210     \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
22211   \kern 2.6\p@}
22212 \renewcommand*\right@footnoterule{%
22213   \normalsize\ftn@rule@test@values
22214   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
22215   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
22216   {\usekomafont{footnoterule}{%
22217     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
22218     \kern 2.6\p@}
22219 \renewcommand*\maketitle[1][1]{%
22220   \expandafter\ifnum \csname scr@v3.12\endcsname>\scr@compatibility\relax
22221   \else
22222     \def\and{%
22223       \end{tabular}%
22224       \hskip 1em \@plus.17fil%
22225       \begin{tabular}[t]{c}%
22226     }%
22227   \fi
22228   \if@titlepage
22229     \begin{titlepage}
22230       \setcounter{page}{%
22231         #1%
22232       }%
22233     \if@titlepageiscoverpage
22234       \edef\titlename@restore{%
22235         \noexpand\endgroup
22236         \noexpand\global\noexpand\@colht\the\@colht
22237         \noexpand\global\noexpand\@colroom\the\@colroom
22238         \noexpand\global\vsizethe\vsizethe
22239         \noexpand\global\noexpand\@titlepageiscoverpagefalse
22240         \noexpand\let\noexpand\titlename@restore\noexpand\relax
22241       }%
22242     \begin{group
22243       \topmargin=\dimexpr \coverpagetopmargin-1in\relax
22244       \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
22245       \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
22246       \textwidth=\dimexpr
22247       \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
22248       \textheight=\dimexpr
22249       \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
22250       \headheight=0pt
22251       \headsep=0pt
22252       \footskip=\baselineskip
22253       \@colht=\textheight
22254       \@colroom=\textheight
22255       \vsizethe\textheight
22256       \columnwidth=\textwidth

```



```

22257         \hsize=\columnwidth
22258         \linewidth=\hsize
22259     \else
22260         \let\titlepage@restore\relax
22261     \fi
22262     \let\footnotesize\small
22263     \let\right@footnoterule\relax
22264     \let\left@footnoterule\relax
22265     \let\textwidth@footnoterule\relax
22266     \let\footnote\thanks
22267     \let\LTRfootnote\LTRthanks
22268     \let\RTLfootnote\RTLthanks
22269     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
22270     \let\oldmakefnmark\makefnmark
22271     \renewcommand*{\@makefnmark}{\rlap{\oldmakefnmark}}%
22272     \ifx\extratitle\empty
22273         \ifx\frontispiece\empty
22274         \else
22275             \if@twoside\mbox{}\next@tpage\fi
22276             \noindent\@frontispiece\next@tdpage
22277         \fi
22278     \else
22279         \noindent\extratitle
22280         \ifx\frontispiece\empty
22281         \else
22282             \next@tpage
22283             \noindent\@frontispiece
22284         \fi
22285         \next@tdpage
22286     \fi
22287     \setparsizes{\z@}{\z@}{\z@+1fil}\par@updateerelative
22288     \ifx\titlehead\empty \else
22289         \begin{minipage}[t]{\textwidth}%
22290             \usekomafont{titlehead}{\@titlehead\par}%
22291         \end{minipage}\par
22292     \fi
22293     \null\vfill
22294     \begin{center}
22295         \ifx\subject\empty \else
22296             {\usekomafont{subject}{\@subject\par}}%
22297             \vskip 3em
22298         \fi
22299         {\usekomafont{title}{\huge \@title\par}}%
22300         \vskip 1em
22301         {\ifx\subtitle\empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
22302         \vskip 2em
22303         {%
22304             \usekomafont{author}{%
22305                 \lineskip 0.75em
22306                 \begin{tabular}[t]{c}
22307                     \@author
22308                 \end{tabular}\par
22309             }%
22310         }%

```



```

22311      \vskip 1.5em
22312      {\usekomafont{date}}{\@date \par}}%
22313      \vskip \z@ \@plus3fill
22314      {\usekomafont{publishers}}{\@publishers \par}}%
22315      \vskip 3em
22316      \end{center}\par
22317      \@thanks\global\let\@thanks\@empty
22318      \vfill\null
22319      \if@twoside
22320        \@tempswatrue
22321        \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
22322        \else
22323          \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
22324            \@tempswafalse
22325          \fi\fi
22326        \fi
22327        \if@tempswa
22328          \next@tpage
22329          \begin{minipage}[t]{\textwidth}
22330            \@uppertitleback
22331          \end{minipage}\par
22332          \vfill
22333          \begin{minipage}[b]{\textwidth}
22334            \@lowertitleback
22335          \end{minipage}\par
22336          \@thanks\global\let\@thanks\@empty
22337        \fi
22338      \else
22339        \ifx\@uppertitleback\@empty\else
22340          \ClassWarning{\KOMAClassName}{%
22341            non empty \string\uppertitleback\space ignored
22342            by \string\maketitle\MessageBreak
22343            in `twoside=false' mode%
22344          }%
22345        \fi
22346        \ifx\@lowertitleback\@empty\else
22347          \ClassWarning{\KOMAClassName}{%
22348            non empty \string\lowertitleback\space ignored
22349            by \string\maketitle\MessageBreak
22350            in `twoside=false' mode%
22351          }%
22352        \fi
22353      \fi
22354      \ifx\@dedication\@empty
22355      \else
22356        \next@tdpage\null\vfill
22357        {\centering\usekomafont{dedication}}{\@dedication \par}}%
22358        \vskip \z@ \@plus3fill
22359        \@thanks\global\let\@thanks\@empty
22360        \cleardoubleemptypage
22361      \fi
22362      \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
22363    \end{titlepage}
22364  \else

```



```

22365 \par
22366 \@tempcnta=%
22367 #1%
22368 \relax\ifnum\@tempcnta=1\else
22369 \ClassWarning{\KOMAClassName}{%
22370 Optional argument of \string\maketitle\space ignored\MessageBreak
22371 in `titlepage=false' mode%
22372 }%
22373 \fi
22374 \ifx\@uppertitleback\@empty\else
22375 \ClassWarning{\KOMAClassName}{%
22376 non empty \string\uppertitleback\space ignored
22377 by \string\maketitle\MessageBreak
22378 in `titlepage=false' mode%
22379 }%
22380 \fi
22381 \ifx\@lowertitleback\@empty\else
22382 \ClassWarning{\KOMAClassName}{%
22383 non empty \string\lowertitleback\space ignored
22384 by \string\maketitle\MessageBreak
22385 in `titlepage=false' mode%
22386 }%
22387 \fi
22388 \begingroup
22389 \let\titlename\@restore\relax
22390 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
22391 \let\@oldmakefnmark\@makefnmark
22392 \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
22393 \next@tdpage
22394 \if@twocolumn
22395 \ifnum \col@number=\@one
22396 \ifx\@extratitle\@empty
22397 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
22398 \else
22399 \@makeextratitle
22400 \fi
22401 \ifx\@frontispiece\@empty
22402 \ifx\@extratitle\@empty\else\next@tdpage\fi
22403 \else
22404 \next@tpage
22405 \@makefrontispiece
22406 \next@tdpage
22407 \fi
22408 \@maketitle
22409 \else
22410 \ifx\@extratitle\@empty
22411 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
22412 \else
22413 \twocolumn[\@makeextratitle]%
22414 \fi
22415 \ifx\@frontispiece\@empty
22416 \ifx\@extratitle\@empty\else\next@tdpage\fi
22417 \else
22418 \next@tpage

```



```

22419         \twocolumn[\@makefrontispiece]%
22420         \next@tdpage
22421     \fi
22422     \twocolumn[\@maketitle]%
22423 \fi
22424 \else
22425     \ifx\@extratitle\@empty
22426     \ifx\@frontispiece\@empty\else \mbox{}\fi
22427     \else
22428     \@makeextratitle
22429     \fi
22430     \ifx\@frontispiece\@empty
22431     \ifx\@extratitle\@empty\else\next@tdpage\fi
22432     \else
22433     \next@tpage
22434     \@makefrontispiece
22435     \next@tdpage
22436     \fi
22437     \@maketitle
22438 \fi
22439     \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
22440     \@thanks\global\let\@thanks\@empty
22441 \endgroup
22442 \fi
22443 \setcounter{footnote}{0}%
22444 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
22445     \let\thanks\relax
22446     \let\LTRthanks\relax
22447     \let\RTLthanks\relax
22448     \let\maketitle\relax
22449     \let\@maketitle\relax
22450     \global\let\@thanks\@empty
22451     \global\let\@author\@empty
22452     \global\let\@date\@empty
22453     \global\let\@title\@empty
22454     \global\let\@subtitle\@empty
22455     \global\let\@extratitle\@empty
22456     \global\let\@frontispiece\@empty
22457     \global\let\@titlehead\@empty
22458     \global\let\@subject\@empty
22459     \global\let\@publishers\@empty
22460     \global\let\@uppertitleback\@empty
22461     \global\let\@lowertitleback\@empty
22462     \global\let\@dedication\@empty
22463     \global\let\author\relax
22464     \global\let\title\relax
22465     \global\let\extratitle\relax
22466     \global\let\titlehead\relax
22467     \global\let\subject\relax
22468     \global\let\publishers\relax
22469     \global\let\uppertitleback\relax
22470     \global\let\lowertitleback\relax
22471     \global\let\dedication\relax
22472     \global\let\date\relax

```



```

22473 \fi
22474 \global\let\and\relax
22475 }%
22476 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
22477 \renewcommand*\autodot{\if@altsecnumformat@SepMark\fi}
22478 \renewcommand*\thesection{%
22479 \expandafter\ifnum\scr@v@is@gt{2.97d}%
22480 \if@mainmatter\thechapter@SepMark\fi
22481 \else
22482 \thechapter@SepMark%
22483 \fi
22484 \@arabic\c@section
22485 }
22486 \renewcommand*\thesubsection{\thesection@SepMark@arabic\c@subsection}
22487 \renewcommand*\thesubsubsection{%
22488 \thesubsection@SepMark@arabic\c@subsubsection
22489 }
22490 \renewcommand*\theparagraph{\thesubsubsection@SepMark@arabic\c@paragraph}
22491 \renewcommand*\thesubparagraph{%
22492 \theparagraph@SepMark@arabic\c@subparagraph
22493 }
22494 \expandafter\ifnum\scr@v@is@le{2.97d}%
22495 \renewcommand*\thefigure{\thechapter@SepMark@arabic\c@figure}
22496 \fi
22497 \expandafter\ifnum\scr@v@is@le{2.97d}%
22498 \renewcommand*\thetable{\thechapter@SepMark@arabic\c@table}
22499 \fi
22500 \renewcommand*\theequation{%
22501 \expandafter\ifnum\scr@v@is@gt{2.97d}%
22502 \if@mainmatter\thechapter@SepMark\fi
22503 \else
22504 \thechapter@SepMark%
22505 \fi
22506 \@arabic\c@equation
22507 }
22508 \renewenvironment{thebibliography}[1]{%
22509 \if@bib@break@
22510 \bib@beginhook
22511 \else
22512 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
22513 \setchapterpreamble{\bibpreamble}%
22514 \fi\fi
22515 \bib@heading
22516 \bib@beginhook
22517 \bib@before@hook
22518 \fi
22519 \renewcommand{\BreakBibliography}[1]{%
22520 \@bib@break
22521 \end{thebibliography}%
22522 \begingroup ##1\endgroup
22523 \begin{thebibliography}{#1}
22524 }%
22525 \if@RTL\if@LTRbibitems@RTLfalse\else\fi\else\if@RTLbibitems@RTLtrue\else\fi\fi
22526 \bidi@thebibliography@font@hook%

```



```

22527 \list{%
22528   \@biblabel{\@arabic\c@enumiv}%
22529 }{%
22530   \settowidth\labelwidth{\@biblabel{#1}}%
22531   \leftmargin\labelwidth
22532   \advance\leftmargin\labelsep
22533   \@openbib@code
22534   \if@bib@break@
22535     \edef\@tempa{%
22536       \noexpand\usecounter{enumiv}%
22537       \noexpand\setcounter{enumiv}{\the\c@enumiv}%
22538     }\@tempa
22539     \no@bib@break
22540   \else
22541     \usecounter{enumiv}%
22542   \fi
22543   \let\p@enumiv\@empty
22544   \renewcommand*\theenumiv{\@arabic\c@enumiv}%
22545 }%
22546 \sloppy\clubpenalty4000 \widowpenalty4000
22547 \sfcode`\.=\@m
22548 }{%
22549 \if@bib@break@
22550   \def\@noitemerr{%
22551     \@latex@warning{%
22552       \string\BreakBibliography\space at begin of `thebibliography'
22553       environment\MessageBreak
22554       or following \string\BreakBibliography}%
22555   }%
22556 \else
22557   \def\@noitemerr{%
22558     \@latex@warning{%
22559       Empty `thebibliography' environment or
22560       \string\BreakBibliography\MessageBreak
22561       before end of `thebibliography' environment}%
22562   }%
22563 \fi
22564 \endlist
22565 \if@bib@break@
22566 \else
22567   \bib@after@hook
22568   \let\bib@before@hook\@empty
22569   \let\bib@after@hook\@empty
22570 \fi
22571 \bib@endhook
22572 }
22573 \renewcommand*\@raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
22574 \renewcommand*\@raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
22575 \renewcommand*\@raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
22576 \renewcommand\marginline[1]{%
22577   \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\fi}
22578 }
22579 \renewcommand{\@makecaption}[3]{%
22580   \cap@margin

```



```

22581 \begingroup
22582   \ifonelinecaptions
22583     \def\stepcounter##1{\advance\value{##1}\@one}%
22584     \let\refstepcounter\stepcounter
22585     \let\label\@gobble
22586     \let\@footnotetext=\@gobble
22587     \let\@LTRfootnotetext=\@gobble
22588     \let\@RTLfootnotetext=\@gobble
22589     \let\hypertarget\@gobbletwo
22590     \edef\@xnewline{%
22591       \unexpanded{\ClassInfo{\KOMAClassName}{%
22592         Workaround for not recommended usage of \string\\ or\MessageBreak
22593         \string\newline in caption text
22594       }}%
22595       \hspace*{\linewidth}\hspace{1sp}%
22596     }%
22597     \unexpanded\expandafter{\@xnewline}%
22598   }%
22599   \edef\@xcentercr{%
22600     \unexpanded{\ClassInfo{\KOMAClassName}{%
22601       Workaround for not recommended usage of \string\\ or\MessageBreak
22602       \string\newline in caption text
22603     }}%
22604     \hspace*{\linewidth}\hspace{1sp}%
22605   }%
22606   \unexpanded\expandafter{\@xcentercr}%
22607 }%
22608 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
22609 \ifdim\@tempdima>\cap@width
22610   \aftergroup\scr@makemultilinecaption
22611 \else
22612   \aftergroup\scr@makesinglelinecaption
22613 \fi
22614 \else
22615   \aftergroup\scr@makemultilinecaption
22616 \fi
22617 \endgroup
22618 {#1}{#2}{#3}%
22619 }
22620 \renewcommand{\scr@makesinglelinecaption}[3]{%
22621   {%
22622     \usefontofkomafont{caption}{%
22623       \hb@xt@{\hsize}%
22624       \cap@left
22625       \if@RTL
22626         \beginR
22627       \fi
22628       \scr@makesinglelinecaption{#1}{#2}{#3}%
22629       \if@RTL
22630         \endR
22631       \fi
22632       \cap@right
22633     }\par\kern\dp\strutbox%
22634   }%

```




```

22635 } \kern-\dp\strutbox
22636 }
22637 \renewcommand{\@makecaption}[2]{%
22638   \if@captionabove
22639     \vskip\belowcaptionskip
22640   \else
22641     \vskip\abovecaptionskip
22642   \fi
22643   \@makecaption\@firstofone{#1}{#2}%
22644   \if@captionabove
22645     \vskip\abovecaptionskip
22646   \else
22647     \vskip\belowcaptionskip
22648   \fi
22649 }
22650
22651 \renewcommand{\scr@makesinglelinecaption}[3]{%
22652   {\usekomafont{caption}{\strut\ignorespaces
22653     #1{\usekomafont{captionlabel}{#2\captionformat}}}%
22654   \ignorespaces #3\unskip}}%
22655 }
22656
22657 \renewcommand{\scr@makemultilinecaption}[3]{%
22658   {%
22659     \usefontofkomafont{caption}{%
22660       \hb@xt@ \hsize{%
22661         \cap@left
22662         \vbox{\hsize\cap@width\linewidth\hsize
22663           \scr@ifundefinedorrelax{@captype}{%
22664             \ClassWarning{KOMAClassName}{%
22665               `string\caption' outside float.\MessageBreak
22666               Seems you are using `string\caption' outside a
22667               float.\MessageBreak
22668               Maybe you are using a package that uses
22669               `string\@makecaption'\MessageBreak
22670               without setting `string\@captype' before.\MessageBreak
22671               Because I cannot detect the caption type, I'm using\MessageBreak
22672               the empty one.%
22673             }%
22674             \let\@captype\@empty
22675           }{}%
22676           \scr@ifundefinedorrelax{ragged\@captype}{\raggedcaption}{%
22677             \@nameuse{ragged\@captype}{caption}%
22678           }%
22679           \ifdofullc@p
22680             \@hangfrom{%
22681               \strut
22682               \scr@smashdp{%
22683                 #1{%
22684                   \usekomafont{caption}{%
22685                     \usekomafont{captionlabel}{#2\captionformat}%
22686                   }%
22687                 }%
22688               }%

```



```

22689     }%
22690     {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22691   \else
22692     \ifdim\cap@indent<\z@
22693       \strut
22694       #1{%
22695         {\usekomafont{caption}{%
22696           \usekomafont{captionlabel}{#2\captionformat}%
22697         }}%
22698       }\par}%
22699       \noindent{{\usekomafont{caption}{%
22700         \hspace*{-\cap@indent}#3\scr@endstrut
22701       }}\par}%
22702   \else
22703     \if@capbreak
22704       \strut
22705       #1{%
22706         {\usekomafont{caption}{%
22707           \usekomafont{captionlabel}{#2\captionformat}%
22708         }}%
22709       }\par}%
22710       \noindent\@hangfrom{\hspace*{\cap@indent}}%
22711       {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22712   \else
22713     \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
22714     {%
22715       \hspace{-\cap@indent}%
22716       \scr@smashdp{%
22717         #1{\usekomafont{caption}{%
22718           \usekomafont{captionlabel}{#2\captionformat}%
22719         }}%
22720       }%
22721     }%
22722     {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22723   }%
22724   \fi
22725   \fi
22726   \fi
22727   }%
22728   \cap@right
22729   }\par\kern\dp\strutbox
22730 }%
22731 }\kern-\dp\strutbox
22732 }
22733
22734
22735 \bidi@AfterFile{longtable-xetex-bidi.def}{%
22736   \if@komalongtable
22737     \renewcommand{\LT@makecaption}[3]{%
22738       \noalign{%
22739         \if@captionabove
22740           \vskip\belowcaptionskip
22741         \else
22742           \vskip\abovecaptionskip

```



```

22743     \fi
22744   }%
22745   \LT@mc@col\LT@cols c{%
22746     \hbox to\z@{\hss\parbox[t]{\linewidth{%
22747       \def\@capttype{table}%
22748       \@@makecaption{#1}{#2}{#3}%
22749       \endgraf
22750       \if@captionabove
22751         \vskip\abovecaptionskip
22752       \else
22753         \vskip\belowcaptionskip
22754       \fi
22755     }%
22756     \hss
22757   }%
22758 }%
22759 }%
22760 \renewcommand*{\scr@LT@array}{}%
22761 \let\scr@LT@array=\LT@array
22762 \renewcommand*{\LT@array}{%
22763   \let\scr@caption=\LT@caption
22764   \def\captionabove{\noalign{\global\@captionabovetrue}%
22765     \scr@caption}%
22766   \def\captionbelow{\noalign{\global\@captionabovefalse}%
22767     \scr@caption}%
22768   \if@tablecaptionabove
22769     \let\LT@caption=\captionabove
22770   \else
22771     \let\LT@caption=\captionbelow
22772   \fi
22773   \scr@LT@array
22774 }%
22775 \ClassInfo{\KOMAClassName}{%
22776   longtable captions redefined%
22777 }%
22778 \fi
22779 }
22780
22781 \CloneTOCEntryStyle{tocline}{part}
22782 \TOCEntryStyleStartInitCode{part}{%
22783   \expandafter\renewcommand%
22784   \csname scr@tso@#1@linefill\endcsname{\hfill}%
22785   \expandafter\renewcommand%
22786   \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
22787   \expandafter\renewcommand%
22788   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22789     {\usekomafont{partentry}{\usekomafont{partentry}pagenumber}{##1}}}%
22790   \expandafter\renewcommand\expandafter*%
22791   \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
22792 }
22793
22794 \CloneTOCEntryStyle{tocline}{chapter}
22795 \TOCEntryStyleStartInitCode{chapter}{%
22796   \expandafter\renewcommand%

```



```

22797 \csname scr@tso@#1@linefill\endcsname{%
22798   \if@chapterentrywithdots
22799     {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
22800   \else
22801     \hfill
22802   \fi
22803 }%
22804 \expandafter\renewcommand%
22805 \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
22806 \expandafter\renewcommand%
22807 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22808   {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
22809 \expandafter\renewcommand\expandafter*%
22810 \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
22811 }
22812
22813 \CloneTOCEntryStyle{tocline}{section}
22814 \TOCEntryStyleStartInitCode{section}{%
22815   \expandafter\renewcommand%
22816   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
22817   \expandafter\renewcommand%
22818   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22819     {\normalfont\normalcolor ##1}}%
22820 }
22821
22822 \CloneTOCEntryStyle{section}{default}
22823
22824 \DeclareSectionCommand[%
22825   style=chapter,%
22826   level=\z@,%
22827   pagestyle=plain,%
22828   tocstyle=chapter,%
22829   tocindent=\z@,%
22830   tocnumwidth=1.5em%
22831 ]{chapter}
22832 \DeclareSectionCommand[%
22833   style=section,%
22834   level=1,%
22835   indent=\z@,%
22836   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
22837   afterskip=2.3ex \@plus.2ex,%
22838   tocstyle=section,%
22839   tocindentfollows=chapter,%
22840   tocindent=1.5em,%
22841   tocnumwidth=2.3em%
22842 ]{section}
22843 \DeclareSectionCommand[%
22844   style=part,%
22845   level=\m@ne,%
22846   pagestyle=plain,%
22847   tocstyle=part,%
22848   toplevel=\m@ne,%
22849   tocindent=\z@,%
22850   tocnumwidth=2em%

```



```

22851 ]{part}
22852 \DeclareSectionCommand[%
22853   style=section,%
22854   level=2,%
22855   indent=\z@,%
22856   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
22857   afterskip=1.5ex \@plus .2ex,%
22858   tocstyle=section,%
22859   tocindent=3.8em,%
22860   tocnumwidth=3.2em%
22861 ]{subsection}
22862 \DeclareSectionCommand[%
22863   style=section,%
22864   level=3,%
22865   indent=\z@,%
22866   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
22867   afterskip=1.5ex \@plus .2ex,%
22868   tocstyle=section,%
22869   tocindent=7.0em,%
22870   tocnumwidth=4.1em%
22871 ]{subsubsection}
22872 \DeclareSectionCommand[%
22873   style=section,%
22874   level=4,%
22875   indent=\z@,%
22876   beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
22877   afterskip=-1em,%
22878   tocindentfollows=subsubsection,%
22879   tocstyle=section,%
22880   tocindent=10em,%
22881   tocnumwidth=5em%
22882 ]{paragraph}
22883 \DeclareSectionCommand[%
22884   style=section,%
22885   level=5,%
22886   indent=\scr@parindent,%
22887   beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
22888   afterskip=-1em,%
22889   tocstyle=section,%
22890   tocindent=12em,%
22891   tocnumwidth=6em%
22892 ]{subparagraph}

```

142 File `scrreprt-xetex-bidi.def`

```

22893 \ProvidesFile{scrreprt-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrreprt class f
22894 \newcommand{\scr@saved@LTRfootnotetext}{}
22895 \newcommand{\scr@saved@RTLfootnotetext}{}
22896 \let\scr@saved@footnotetext\@footnotetext
22897 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
22898 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
22899 \renewcommand{\@footnotetext}[1]{%
22900   \scr@saved@footnotetext{#1}%
22901   \csname FN@mfb@prepare\endcsname

```



```

22902 }
22903 \renewcommand{\@LTRfootnotetext}[1]{%
22904   \scr@saved@LTRfootnotetext{#1}%
22905   \csname FN@mfb@prepare\endcsname
22906 }
22907 \renewcommand{\@RTLfootnotetext}[1]{%
22908   \scr@saved@RTLfootnotetext{#1}%
22909   \csname FN@mfb@prepare\endcsname
22910 }
22911 \renewcommand\deffootnote[4][1]{%
22912   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
22913     \long\def\@makefnmark{#1}{%
22914       \ExecuteDoHook{footnote/text/begin}%
22915       \raggedfootnote
22916       \if@RTL
22917         \rightskip
22918       \else
22919         \leftskip
22920       \fi
22921       #2
22922       \l@addto@macro\@trivlist{%
22923         \ifnum\@listdepth=\@ne
22924           \if@RTL
22925             \advance\rightmargin #2\relax
22926           \else
22927             \advance\leftmargin #2\relax
22928           \fi
22929         \fi
22930       }%
22931       \parindent #3\noindent
22932       \IfArgIsEmpty{#1}{-}{%
22933         \hskip \dimexpr #1-#2\relax
22934       }%
22935       \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22936       \ExecuteDoHook{footnote/text/end}%
22937     }%
22938   \else
22939     \ClassInfo{\KOMAClassName}{%
22940       Using old \string\@makefnmark\space due to compatibility
22941       level\MessageBreak
22942       less than 3.22}%
22943     \long\def\@makefnmark{#1}{%
22944       \setlength{\@tempdimc}{#3}%
22945       \def\@tempa{#1}\ifx\@tempa\@empty
22946         \@setpar{\@par
22947           \@tempdima = \hsize
22948           \addtolength{\@tempdima}{-#2}%
22949           \if@RTL
22950             \parshape \@ne \z@ \@tempdima
22951           \else
22952             \parshape \@ne #2 \@tempdima
22953           \fi
22954         }%
22955       \else

```



```

22956      \addtolength{\@tempdimc}{#2}%
22957      \addtolength{\@tempdimc}{-#1}%
22958      \@setpar{\@par
22959        \@tempdima = \hspace
22960        \addtolength{\@tempdima}{-#1}%
22961        \@tempdimb = \hspace
22962        \addtolength{\@tempdimb}{-#2}%
22963        \ifRTL
22964          \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
22965        \else
22966          \parshape \tw@ #1 \@tempdima #2 \@tempdimb
22967        \fi
22968      }%
22969      \fi
22970      \par
22971      \parindent\@tempdimc\noindent
22972      \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22973    }%
22974    \fi
22975    \def\@makefnmark{\hbox{\ftn@font{#4}}}%
22976  }
22977  \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
22978  \renewcommand*\left@footnoterule{%
22979    \normalsize\ftn@rule@test@values
22980    \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
22981    \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
22982    {\usekomafont{footnoterule}{%
22983      \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
22984    \kern 2.6\p@}
22985  \renewcommand*\right@footnoterule{%
22986    \normalsize\ftn@rule@test@values
22987    \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
22988    \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
22989    {\usekomafont{footnoterule}{%
22990      \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
22991      \kern 2.6\p@}
22992  \renewcommand*\maketitle[1][1]{%
22993    \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
22994    \else
22995      \def\and{%
22996        \end{tabular}%
22997        \hskip 1em \@plus.17fil%
22998        \begin{tabular}[t]{c}%
22999      }%
23000    \fi
23001    \if@titlepage
23002      \begin{titlepage}
23003        \setcounter{page}{%
23004          #1%
23005        }%
23006        \if@titlepageiscoverpage
23007          \edef\titlepage@restore{%
23008            \noexpand\endgroup
23009            \noexpand\global\noexpand\@colht\the\@colht

```



```

23010         \noexpand\global\noexpand\@colroom\the\@colroom
23011         \noexpand\global\vsizethe\vsizethe
23012         \noexpand\global\noexpand\@titlepageiscoverpagefalse
23013         \noexpand\let\noexpand\titlepage@restore\noexpand\relax
23014     }%
23015     \begingroup
23016     \topmargin=\dimexpr \coverpagetopmargin-1in\relax
23017     \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
23018     \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
23019     \textwidth=\dimexpr
23020     \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
23021     \textheight=\dimexpr
23022     \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
23023     \headheight=0pt
23024     \headsep=0pt
23025     \footskip=\baselineskip
23026     \@colht=\textheight
23027     \@colroom=\textheight
23028     \vsizethe\textheight
23029     \columnwidth=\textwidth
23030     \hsize=\columnwidth
23031     \linewidth=\hsize
23032 \else
23033     \let\titlepage@restore\relax
23034 \fi
23035 \let\footnotesize\small
23036 \let\right@footnoterule\relax
23037 \let\left@footnoterule\relax
23038 \let\textwidth@footnoterule\relax
23039 \let\footnote\thanks
23040 \let\LTRfootnote\LTRthanks
23041 \let\RTLfootnote\RTLthanks
23042 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
23043 \let\@oldmakefnmark\@makefnmark
23044 \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
23045 \ifx\@extratitle\@empty
23046     \ifx\@frontispiece\@empty
23047     \else
23048         \if@twoside\mbox{}\next@tpage\fi
23049         \noindent\@frontispiece\next@tdpage
23050     \fi
23051 \else
23052     \noindent\@extratitle
23053     \ifx\@frontispiece\@empty
23054     \else
23055         \next@tpage
23056         \noindent\@frontispiece
23057     \fi
23058     \next@tdpage
23059 \fi
23060 \setparsizes{z@}{z@}{z@\@plus 1fil}\par@updateerelative
23061 \ifx\@titlehead\@empty \else
23062     \begin{minipage}[t]{\textwidth}%
23063     \usekomafont{titlehead}{\@titlehead\par}%

```




```

23064         \end{minipage}\par
23065     \fi
23066     \null\vfill
23067     \begin{center}
23068         \ifx\@subject\@empty \else
23069             {\usekomafont{subject}{\@subject\par}}%
23070             \vskip 3em
23071         \fi
23072         {\usekomafont{title}{\huge \@title\par}}%
23073         \vskip 1em
23074         {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
23075         \vskip 2em
23076         {%
23077             \usekomafont{author}{%
23078                 \lineskip 0.75em
23079                 \begin{tabular}[t]{c}
23080                     \@author
23081                 \end{tabular}\par
23082             }%
23083         }%
23084         \vskip 1.5em
23085         {\usekomafont{date}{\@date \par}}%
23086         \vskip \z@ \@plus3fill
23087         {\usekomafont{publishers}{\@publishers \par}}%
23088         \vskip 3em
23089     \end{center}\par
23090     \@thanks\global\let\@thanks\@empty
23091     \vfill\null
23092     \if@twoside
23093         \@tempwattrue
23094         \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
23095         \else
23096             \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
23097                 \@tempwafalse
23098             \fi\fi
23099         \fi
23100         \if@tempwa
23101             \next@tpage
23102             \begin{minipage}[t]{\textwidth}
23103                 \@uppertitleback
23104             \end{minipage}\par
23105             \vfill
23106             \begin{minipage}[b]{\textwidth}
23107                 \@lowertitleback
23108             \end{minipage}\par
23109             \@thanks\global\let\@thanks\@empty
23110         \fi
23111     \else
23112         \ifx\@uppertitleback\@empty\else
23113             \ClassWarning{\KOMAClassName}{%
23114                 non empty \string\uppertitleback\space ignored
23115                 by \string\maketitle\MessageBreak
23116                 in `twoside=false' mode%
23117             }%

```



```

23118     \fi
23119     \ifx\@lowertitleback\@empty\else
23120         \ClassWarning{\KOMAClassName}{%
23121             non empty \string\lowertitleback\space ignored
23122             by \string\maketitle\MessageBreak
23123             in `twoside=false' mode%
23124         }%
23125     \fi
23126 \fi
23127 \ifx\@dedication\@empty
23128 \else
23129     \next@tdpage\null\vfill
23130     {\centering\usekomafont{dedication}{\@dedication \par}}%
23131     \vskip \z@ \@plus3fill
23132     \@thanks\global\let\@thanks\@empty
23133     \cleardoubleemptypage
23134 \fi
23135 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
23136 \end{titlepage}
23137 \else
23138     \par
23139     \@tempcnta=%
23140     #1%
23141     \relax\ifnum\@tempcnta=1\else
23142         \ClassWarning{\KOMAClassName}{%
23143             Optional argument of \string\maketitle\space ignored\MessageBreak
23144             in `titlepage=false' mode%
23145         }%
23146     \fi
23147     \ifx\@uppertitleback\@empty\else
23148         \ClassWarning{\KOMAClassName}{%
23149             non empty \string\uppertitleback\space ignored
23150             by \string\maketitle\MessageBreak
23151             in `titlepage=false' mode%
23152         }%
23153     \fi
23154     \ifx\@lowertitleback\@empty\else
23155         \ClassWarning{\KOMAClassName}{%
23156             non empty \string\lowertitleback\space ignored
23157             by \string\maketitle\MessageBreak
23158             in `titlepage=false' mode%
23159         }%
23160     \fi
23161     \begin{group}
23162         \let\titlepage@restore\relax
23163         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
23164         \let\@oldmakefnmark\@makefnmark
23165         \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
23166         \next@tdpage
23167         \if@twocolumn
23168             \ifnum \col@number=\@one
23169                 \ifx\@extratitle\@empty
23170                     \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
23171                 \else

```



```

23172         \@makeextratitle
23173     \fi
23174     \ifx\@frontispiece\@empty
23175         \ifx\@extratitle\@empty\else\next@tdpage\fi
23176     \else
23177         \next@tpage
23178         \@makefrontispiece
23179         \next@tdpage
23180     \fi
23181     \@maketitle
23182 \else
23183     \ifx\@extratitle\@empty
23184         \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
23185     \else
23186         \twocolumn[\@makeextratitle]%
23187     \fi
23188     \ifx\@frontispiece\@empty
23189         \ifx\@extratitle\@empty\else\next@tdpage\fi
23190     \else
23191         \next@tpage
23192         \twocolumn[\@makefrontispiece]%
23193         \next@tdpage
23194     \fi
23195     \twocolumn[\@maketitle]%
23196 \fi
23197 \else
23198     \ifx\@extratitle\@empty
23199         \ifx\@frontispiece\@empty\else \mbox{}\fi
23200     \else
23201         \@makeextratitle
23202     \fi
23203     \ifx\@frontispiece\@empty
23204         \ifx\@extratitle\@empty\else\next@tdpage\fi
23205     \else
23206         \next@tpage
23207         \@makefrontispiece
23208         \next@tdpage
23209     \fi
23210     \@maketitle
23211 \fi
23212 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
23213 \@thanks\global\let\@thanks\@empty
23214 \endgroup
23215 \fi
23216 \setcounter{footnote}{0}%
23217 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
23218     \let\thanks\relax
23219     \let\LTRthanks\relax
23220     \let\RTLthanks\relax
23221     \let\maketitle\relax
23222     \let\@maketitle\relax
23223     \global\let\@thanks\@empty
23224     \global\let\@author\@empty
23225     \global\let\@date\@empty

```



```

23226 \global\let\@title\@empty
23227 \global\let\@subtitle\@empty
23228 \global\let\@extratitle\@empty
23229 \global\let\@frontispiece\@empty
23230 \global\let\@titlehead\@empty
23231 \global\let\@subject\@empty
23232 \global\let\@publishers\@empty
23233 \global\let\@uppertitleback\@empty
23234 \global\let\@lowertitleback\@empty
23235 \global\let\@dedication\@empty
23236 \global\let\author\relax
23237 \global\let\title\relax
23238 \global\let\extratitle\relax
23239 \global\let\titlehead\relax
23240 \global\let\subject\relax
23241 \global\let\publishers\relax
23242 \global\let\uppertitleback\relax
23243 \global\let\lowertitleback\relax
23244 \global\let\dedication\relax
23245 \global\let\date\relax
23246 \fi
23247 \global\let\and\relax
23248 }%
23249 \def\raggedsection{\ifRTL\raggedleft\else\raggedright\fi}
23250 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
23251 \renewcommand*\thesection{%
23252 \thechapter\@SepMark%
23253 \@arabic\c@section
23254 }
23255 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
23256 \renewcommand*\thesubsubsection{%
23257 \thesubsection\@SepMark\@arabic\c@subsubsection
23258 }
23259 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
23260 \renewcommand*\thesubparagraph{%
23261 \theparagraph\@SepMark\@arabic\c@subparagraph
23262 }
23263 \expandafter\ifnum\scr@v@is@le{2.97d}%
23264 \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
23265 \fi
23266 \expandafter\ifnum\scr@v@is@le{2.97d}%
23267 \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
23268 \fi
23269 \renewcommand*\theequation{%
23270 \thechapter\@SepMark%
23271 \@arabic\c@equation
23272 }
23273 \renewenvironment{thebibliography}[1]{%
23274 \if@bib@break@
23275 \bib@beginhook
23276 \else
23277 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
23278 \setchapterpreamble{\bibpreamble}%
23279 \fi\fi

```



```

23280 \bib@heading
23281 \bib@beginhook
23282 \bib@before@hook
23283 \fi
23284 \renewcommand{\BreakBibliography}[1]{%
23285 \bib@break
23286 \end{thebibliography}%
23287 \begingroup ##1\endgroup
23288 \begin{thebibliography}{#1}
23289 }%
23290 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
23291 \bidi@thebibliography@font@hook%
23292 \list{%
23293 \biblabel{\@arabic\c@enumiv}%
23294 }{%
23295 \settowidth\labelwidth{\biblabel{#1}}%
23296 \leftmargin\labelwidth
23297 \advance\leftmargin\labelsep
23298 \@openbib@code
23299 \if@bib@break@
23300 \edef\@tempa{%
23301 \noexpand\usecounter{enumiv}%
23302 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
23303 }\@tempa
23304 \no@bib@break
23305 \else
23306 \usecounter{enumiv}%
23307 \fi
23308 \let\p@enumiv\@empty
23309 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
23310 }%
23311 \sloppy\clubpenalty4000 \widowpenalty4000
23312 \sfcode`\.=\@m
23313 }{%
23314 \if@bib@break@
23315 \def\@noitemerr{%
23316 \@latex@warning{%
23317 \string\BreakBibliography\space at begin of `thebibliography'
23318 environment\MessageBreak
23319 or following \string\BreakBibliography}%
23320 }%
23321 \else
23322 \def\@noitemerr{%
23323 \@latex@warning{%
23324 Empty `thebibliography' environment or
23325 \string\BreakBibliography\MessageBreak
23326 before end of `thebibliography' environment}%
23327 }%
23328 \fi
23329 \endlist
23330 \if@bib@break@
23331 \else
23332 \bib@after@hook
23333 \let\bib@before@hook\@empty

```



```

23334 \let\bib@after@hook\empty
23335 \fi
23336 \bib@endhook
23337 }
23338 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
23339 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
23340 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
23341 \renewcommand\marginline[1]{%
23342 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
23343 }
23344 \renewcommand{\@@makecaption}[3]{%
23345 \cap@margin
23346 \begingroup
23347 \ifonelinecaptions
23348 \def\stepcounter##1{\advance\value{##1}\@ne}%
23349 \let\refstepcounter\stepcounter
23350 \let\label\@gobble
23351 \let\@footnotetext=\@gobble
23352 \let\@LTRfootnotetext=\@gobble
23353 \let\@RTLfootnotetext=\@gobble
23354 \let\hypertarget\@gobbletwo
23355 \edef\@xnewline{%
23356 \unexpanded{\ClassInfo{\KOMAClassName}{%
23357 Workaround for not recommended usage of \string\\ or\MessageBreak
23358 \string\newline in caption text
23359 }%
23360 \hspace*{\linewidth}\hspace{1sp}%
23361 }%
23362 \unexpanded\expandafter{\@xnewline}%
23363 }%
23364 \edef\@xcentercr{%
23365 \unexpanded{\ClassInfo{\KOMAClassName}{%
23366 Workaround for not recommended usage of \string\\ or\MessageBreak
23367 \string\newline in caption text
23368 }%
23369 \hspace*{\linewidth}\hspace{1sp}%
23370 }%
23371 \unexpanded\expandafter{\@xcentercr}%
23372 }%
23373 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
23374 \ifdim\@tempdima>\cap@width
23375 \aftergroup\scr@makemultilinecaption
23376 \else
23377 \aftergroup\scr@makesinglelinecaption
23378 \fi
23379 \else
23380 \aftergroup\scr@makemultilinecaption
23381 \fi
23382 \endgroup
23383 {#1}{#2}{#3}%
23384 }
23385 \renewcommand{\scr@makesinglelinecaption}[3]{%
23386 {%
23387 \usefontofkomafont{caption}{%

```



```

23388      \hb@xt@{hsize}{%
23389      \cap@left
23390      \if@RTL
23391      \beginR
23392      \fi
23393      \scr@@makesinglelinecaption{#1}{#2}{#3}%
23394      \if@RTL
23395      \endR
23396      \fi
23397      \cap@right
23398      }\par\kern\dp\strutbox%
23399      }%
23400      }\kern-\dp\strutbox
23401      }
23402      \renewcommand{\@makecaption}[2]{%
23403      \if@captionabove
23404      \vskip\belowcaptionskip
23405      \else
23406      \vskip\abovecaptionskip
23407      \fi
23408      \@makecaption\@firstofone{#1}{#2}%
23409      \if@captionabove
23410      \vskip\abovecaptionskip
23411      \else
23412      \vskip\belowcaptionskip
23413      \fi
23414      }
23415
23416      \renewcommand{\scr@@makesinglelinecaption}[3]{%
23417      {\usekomafont{caption}{\strut\ignorespaces
23418      #1{\usekomafont{captionlabel}{#2\captionformat}}}%
23419      \ignorespaces #3\unskip}}%
23420      }
23421
23422      \renewcommand{\scr@makemultilinecaption}[3]{%
23423      {%
23424      \usefontofkomafont{caption}{%
23425      \hb@xt@{hsize}{%
23426      \cap@left
23427      \vbox{\hsize\cap@width\linewidth\hsize
23428      \scr@ifundefinedorrelax{\@captive}{%
23429      \ClassWarning{\KOMAClassName}{%
23430      `\'string\caption' outside float.\MessageBreak
23431      Seems you are using `\'string\caption' outside a
23432      float.\MessageBreak
23433      Maybe you are using a package that uses
23434      `\'string\@makecaption'\MessageBreak
23435      without setting `\'string\@captive' before.\MessageBreak
23436      Because I cannot detect the caption type, I'm using\MessageBreak
23437      the empty one.%
23438      }%
23439      \let\@captive\@empty
23440      }{}%
23441      \scr@ifundefinedorrelax{ragged\@captive}{\raggedcaption}{%

```



```

23442      \@nameuse{ragged\@captype caption}%
23443    }%
23444    \ifdofullc@p
23445      \@hangfrom{%
23446        \strut
23447        \scr@smashdp{%
23448          #1{%
23449            \usekomafont{caption}{%
23450              \usekomafont{captionlabel}{#2\captionformat}%
23451            }%
23452          }%
23453        }%
23454      }%
23455      {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
23456    \else
23457      \ifdim\cap@indent<\z@
23458        \strut
23459        #1{%
23460          {\usekomafont{caption}{%
23461            \usekomafont{captionlabel}{#2\captionformat}%
23462          }%
23463        }\par}%
23464        \noindent{{\usekomafont{caption}{%
23465          \hspace*{-\cap@indent}#3\scr@endstrut
23466        }}\par}%
23467      \else
23468        \if@capbreak
23469          \strut
23470          #1{%
23471            {\usekomafont{caption}{%
23472              \usekomafont{captionlabel}{#2\captionformat}%
23473            }%
23474          }\par}%
23475          \noindent\@hangfrom{\hspace*{\cap@indent}}%
23476          {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
23477        \else
23478          \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
23479          {%
23480            \hspace*{-\cap@indent}%
23481            \scr@smashdp{%
23482              #1{\usekomafont{caption}{%
23483                \usekomafont{captionlabel}{#2\captionformat}%
23484              }%
23485            }%
23486          }%
23487          {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
23488        }%
23489      \fi
23490    \fi
23491  \fi
23492 }%
23493 \cap@right
23494 }\par\kern\dp\strutbox
23495 }%

```




```

23496 } \kern-\dp\strutbox
23497 }
23498
23499
23500 \bidi@AfterFile{longtable-xetex-bidi.def}{%
23501   \if@komalongtable
23502     \renewcommand{\LT@makecaption}[3]{%
23503       \noalign{%
23504         \if@captionabove
23505           \vskip\belowcaptionskip
23506         \else
23507           \vskip\abovecaptionskip
23508         \fi
23509       }%
23510       \LT@mcol\LT@cols c{%
23511         \hbox to\z@{\hss\parbox[t]{\linewidth{%
23512           \def\@capytype{table}%
23513           \@makecaption{#1}{#2}{#3}%
23514           \endgraf
23515           \if@captionabove
23516             \vskip\abovecaptionskip
23517           \else
23518             \vskip\belowcaptionskip
23519           \fi
23520         }%
23521         \hss
23522       }%
23523     }%
23524   }%
23525   \renewcommand*{\scr@LT@array}{}%
23526   \let\scr@LT@array=\LT@array
23527   \renewcommand*{\LT@array}{%
23528     \let\scr@caption=\LT@caption
23529     \def\captionabove{\noalign{\global\@captionabovetrue}%
23530       \scr@caption}%
23531     \def\captionbelow{\noalign{\global\@captionabovefalse}%
23532       \scr@caption}%
23533     \if@tablecaptionabove
23534       \let\LT@caption=\captionabove
23535     \else
23536       \let\LT@caption=\captionbelow
23537     \fi
23538     \scr@LT@array
23539   }%
23540   \ClassInfo{\KOMAClassName}{%
23541     longtable captions redefined%
23542   }%
23543 \fi
23544 }
23545
23546 \CloneTOCEntryStyle{tocline}{part}
23547 \TOCEntryStyleStartInitCode{part}{%
23548   \expandafter\renewcommand%
23549   \csname scr@tso@#1@linefill\endcsname{\hfill}%

```



```

23550 \expandafter\renewcommand%
23551 \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
23552 \expandafter\renewcommand%
23553 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23554   {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
23555 \expandafter\renewcommand\expandafter*%
23556 \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
23557 }
23558
23559 \CloneTOCEntryStyle{tocline}{chapter}
23560 \TOCEntryStyleStartInitCode{chapter}{%
23561   \expandafter\renewcommand%
23562   \csname scr@tso@#1@linefill\endcsname{%
23563     \if@chapterentrywithdots
23564       {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
23565     \else
23566       \hfill
23567     \fi
23568   }%
23569   \expandafter\renewcommand%
23570   \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
23571   \expandafter\renewcommand%
23572   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23573     {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
23574   \expandafter\renewcommand\expandafter*%
23575   \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
23576 }
23577
23578 \CloneTOCEntryStyle{tocline}{section}
23579 \TOCEntryStyleStartInitCode{section}{%
23580   \expandafter\renewcommand%
23581   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
23582   \expandafter\renewcommand%
23583   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23584     {\normalfont\normalcolor ##1}}%
23585 }
23586
23587 \CloneTOCEntryStyle{section}{default}
23588
23589 \DeclareSectionCommand[%
23590   style=chapter,%
23591   level=\z@,%
23592   pagestyle=plain,%
23593   tocstyle=chapter,%
23594   tocindent=\z@,%
23595   tocnumwidth=1.5em%
23596 ]{chapter}
23597 \DeclareSectionCommand[%
23598   style=section,%
23599   level=1,%
23600   indent=\z@,%
23601   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
23602   afterskip=2.3ex \@plus.2ex,%
23603   tocstyle=section,%

```



```

23604 tocindentfollows=chapter,%
23605 tocindent=1.5em,%
23606 tocnumwidth=2.3em%
23607 ]{section}
23608 \DeclareSectionCommand[%
23609 style=part,%
23610 level=\m@ne,%
23611 pagestyle=plain,%
23612 tocstyle=part,%
23613 toplevel=\m@ne,%
23614 tocindent=\z@,%
23615 tocnumwidth=2em%
23616 ]{part}
23617 \DeclareSectionCommand[%
23618 style=section,%
23619 level=2,%
23620 indent=\z@,%
23621 beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
23622 afterskip=1.5ex \@plus .2ex,%
23623 tocstyle=section,%
23624 tocindent=3.8em,%
23625 tocnumwidth=3.2em%
23626 ]{subsection}
23627 \DeclareSectionCommand[%
23628 style=section,%
23629 level=3,%
23630 indent=\z@,%
23631 beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
23632 afterskip=1.5ex \@plus .2ex,%
23633 tocstyle=section,%
23634 tocindent=7.0em,%
23635 tocnumwidth=4.1em%
23636 ]{subsubsection}
23637 \DeclareSectionCommand[%
23638 style=section,%
23639 level=4,%
23640 indent=\z@,%
23641 beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
23642 afterskip=-1em,%
23643 tocindentfollows=subsubsection,%
23644 tocstyle=section,%
23645 tocindent=10em,%
23646 tocnumwidth=5em%
23647 ]{paragraph}
23648 \DeclareSectionCommand[%
23649 style=section,%
23650 level=5,%
23651 indent=\scr@parindent,%
23652 beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
23653 afterskip=-1em,%
23654 tocstyle=section,%
23655 tocindent=12em,%
23656 tocnumwidth=6em%
23657 ]{subparagraph}

```



143 File sidecap-xetex-bidi.def

```

23658 \ProvidesFile{sidecap-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for sidecap package f
23659 \RequirePackage{ragged2e}
23660 \renewcommand*{\SC@FLOAT}[2]{\if@RTL%
23661   \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}\else%
23662 \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}\fi}
23663 \renewcommand*{\SC@justify@caption}{\if@RTL%
23664 \isSC@ODD{\RaggedLeft}{\RaggedRight}\else%
23665   \isSC@ODD{\RaggedRight}{\RaggedLeft}\fi}
23666
23667 \@ifpackagewith{sidecap}{innercaption}{%
23668 \if@RTL \renewcommand*{\SC@FLOAT}[2]{%
23669   \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}}
23670 \renewcommand*{\SC@justify@caption{%
23671   \isSC@ODD{\RaggedRight}{\RaggedLeft}}\else
23672 \renewcommand*{\SC@FLOAT}[2]{%
23673   \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}}
23674 \renewcommand*{\SC@justify@caption{%
23675   \isSC@ODD{\RaggedLeft}{\RaggedRight}}\fi}
23676 }{}
23677
23678 \@ifpackagewith{sidecap}{rightcaption}{%
23679 \if@RTL\renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
23680 \def\SC@justify@caption{\RaggedLeft}\else%
23681 \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
23682 \def\SC@justify@caption{\RaggedRight}\fi%
23683 }{}
23684
23685 \@ifpackagewith{sidecap}{leftcaption}{%
23686 \if@RTL \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
23687 \def\SC@justify@caption{\RaggedRight}\else%
23688 \renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
23689 \def\SC@justify@caption{\RaggedLeft}\fi%
23690 }{}

```

144 File soul-xetex-bidi.def

```

23691 \ProvidesFile{soul-xetex-bidi.def}[2015/10/16 v0.1 bidi adaptations for soul package for XeT
23692 \long\def\SOUL@start#1{%
23693   \let\bid@RTL@everypar\@empty
23694   \let\<\SOUL@lowerthan
23695   \let\>\empty
23696   \def\soulomit{\noexpand\soulomit}%
23697   \gdef\SOUL@eventuallyexhyphen#1{%
23698     \let\SOUL@soeventuallyskip\relax
23699     \SOUL@spaceskip=\fontdimen\tw@\font\@plus\fontdimen\thr@\font
23700       \@minus\fontdimen4\font
23701     \SOUL@ignorespacesfalse
23702     \leavevmode
23703     \SOUL@preamble
23704     \SOUL@lasttoken={}%
23705     \SOUL@word={}%
23706     \SOUL@minus\z@

```



```

23707 \SOUL@comma\z@
23708 \SOUL@apo\z@
23709 \SOUL@grave\z@
23710 \SOUL@do{#1}%
23711 \SOUL@postamble
23712 }}
23713 \def\SOUL@ulunderline#1{%
23714 \setbox\z@\hbox{#1}%
23715 \dimen@=\wd\z@
23716 \dimen@i=\SOUL@uloverlap
23717 \advance\dimen@2\dimen@i
23718 \if@RTL
23719 \unhcopy\z@
23720 \llap{%
23721 \null
23722 \kern-\dimen@i
23723 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
23724 }%
23725 \else
23726 \rlap{%
23727 \null
23728 \kern-\dimen@i
23729 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
23730 }%
23731 \unhcopy\z@
23732 \fi
23733 }}
23734 \def\bid@SOUL@ulleaders{%
23735 \leaders\hb@xt@0.1pt{\hss\SOUL@ulcolor{\vrule\@depth\SOUL@uldp\@height\SOUL@ulht}\hss}\r
23736 }
23737 \def\SOUL@uleveryspace#1{%
23738 \if@RTL
23739 #1%
23740 \bid@SOUL@ulleaders
23741 \hskip\spaceskip
23742 \else
23743 \SOUL@ulcolor{%
23744 #1%
23745 \SOUL@ulleaders
23746 \hskip\spaceskip
23747 }%
23748 \fi
23749 \null
23750 }

```

145 File stabular-xetex-bidi.def

```

23751 \ProvidesFile{stabular-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for stabular package]
23752 \def\@stabular{%
23753 \leavevmode \bgroup \if@RTLtab\beginR \fi
23754 \let\@acol\@tabacol
23755 \let\@classz\@tabclassz
23756 \let\@classiv\@tabclassiv \let\\\@tabularcr\@stabarray}
23757 \def\endstabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi

```



```

23758             \egroup \if@RTLtab\endR\fi\egroup}
23759 \expandafter \let \csname endstabular*\endcsname = \endstabular
23760 \def\@sarray[#1]#2{%
23761     \bgroup
23762     \setbox\@arstrutbox\hbox{%
23763         \vrule \@height\arraystretch\ht\strutbox
23764             \@depth\arraystretch \dp\strutbox
23765             \@width\z@}%
23766     \@mkpream{#2}%
23767     \edef\@preamble{%
23768         \ialign \noexpand\@halignto
23769             \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
23770     \let\@startpbox\@startpbox \let\@endpbox\@endpbox
23771     \let\tabularnewline\%
23772     \let\@sharp##%
23773     \set@typeset@protect
23774     \lineskip\z@skip\baselineskip\z@skip
23775     \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
23776     \@preamble}

```

146 File subfigure-xetex-bidi.def

```

23777 \ProvidesFile{subfigure-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for subfigure packa
23778 \AtBeginDocument{%
23779 \let\p@subfigure=\thefigure
23780 \let\p@subtable=\thetable%
23781 }

```

147 File tabs-xetex-bidi.def

```

23782 \ProvidesFile{tabs-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for tabs package for X
23783 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
23784
23785 \expandafter\let\csname endtabular*\endcsname=\endtabular
23786
23787 \def\endarray{\ifvmode\csname crcr\endcsname % just do \crr if \ given
23788     \else \[\z@ \global\advance\@arstdepth-\@otarlinesep]%
23789     \fi\egroup\if@RTLtab\egroup\endR\egroup\fi\@unrecurse\egroup}
23790
23791 \def\@array[#1]#2{% remember global variables to allow recursion:
23792     \edef\@unrecurse{\global\@skip@bove\the\@skip@bove
23793         \global\@arstheight\the\@arstheight\global\@arstdepth\the\@arstdepth}%
23794     \let\@otarlinesep\@tarlinesep \global\@skip@bove-\@otarlinesep
23795     \ifx\@classz\@arrayclassz \let\@tarlinesep\arraylinesep
23796     \else \let\@tarlinesep\tablinesep \fi
23797     \divide\@tarlinesep\tw@ % half sep is applied to height & depth
23798     \let\@seesize\relax \let\@rememsize\relax \@mkpream{#2}%
23799     \@tempdima\arraystretch\ht\strutbox \@tempdimb\arraystretch\dp\strutbox
23800     \ifdim\@tarlinesep>\z@ % (need \protect for \multicolumn)
23801         \def\@rememsize{\protect\@r@m@msize}\let\@seesize\@s@size
23802         \advance\@tempdima-\@tarlinesep \advance\@tempdimb-\@tarlinesep
23803     \fi \setbox\@arstrutbox\hbox{% set up smaller strut
23804         \vrule \@height\@tempdima \@depth\@tempdimb \@width\z@}%
23805     \let\protect\noexpand

```



```

23806 \edef\@preamble{\ialign \noexpand\@halignto \bgroup
23807 \unhcopy\@arstrutbox \@preamble \tabskip\z@skip &\@sharp \cr}%
23808 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
23809 \if#1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
23810 \bgroup \let\par\@empty
23811 \global\@arstheight\ht\@arstrutbox \global\@arstdepth\dp\@arstrutbox
23812 \advance\extrarulesep.5\arrayrulewidth
23813 \let\@sharp#\let\protect\relax \lineskip\z@skip \baselineskip\z@skip
23814 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if#1t\vtop \else \vbox \fi\bgroup\fi
23815 \@preamble}

```

148 File tabularx-xetex-bidi.def

```

23816 \ProvidesFile{tabularx-xetex-bidi.def}[2014/11/08 v0.1 bidi adaptations for tabularx package]
23817 \def\TX@endtabularx{%
23818   \expandafter\expandafter\expandafter
23819     \TX@find@endtabularxa\csname end\TX@\endcsname
23820     \endtabularx\TX@\endtabularx\TX@find@endtabularxa
23821   \expandafter\TX@newcol\expandafter{\tabularxcolumn{\TX@col@width}}}%
23822   \let\verb\TX@verb
23823   \def\@elt##1{\global\value{##1}\the\value{##1}\relax}%
23824   \edef\TX@ckpt{\cl@ckpt}%
23825   \let\@elt\relax
23826   \TX@old@table\maxdimen
23827   \TX@col@width\TX@target
23828   \global\TX@cols\@ne
23829   \TX@typeout@
23830     {\@spaces Table Width\@spaces Column Width\@spaces X Columns}%
23831   \TX@trial{\def\NC@rewriteX{%
23832     \global\advance\TX@cols\@ne\NC@find p{\TX@col@width}}}%
23833   \loop
23834     \TX@arith
23835     \ifTX@
23836     \TX@trial{%
23837   \repeat
23838   {\let\@footnotetext\TX@fnttext\let\@xfootnotenext\TX@xftntext
23839   \let\@LTRfootnotetext\TX@LTRfnttext\let\@xLTRfootnotenext\TX@xLTRfnttext
23840   \let\@RTLfootnotetext\TX@RTLfnttext\let\@xRTLfootnotenext\TX@xRTLfnttext
23841   \csname tabular*\expandafter\endcsname\expandafter\TX@target
23842     \the\toks@
23843     \csname endtabular*\endcsname}%
23844   \global\TX@ftn\expandafter{\expandafter}\the\TX@ftn
23845   \ifnum0=\@fi}%
23846   \expandafter\expandafter\expandafter
23847     \TX@find@endtabularxbb
23848     \expandafter\end\expandafter{\TX@}%
23849     \endtabularx\TX@\endtabularx\TX@find@endtabularxb
23850 }
23851
23852 \def\TX@trial#1{%
23853   \setbox\@tempboxa\hbox{%
23854     #1\relax
23855   \let\@footnotetext\TX@trial@ftn
23856   \let\@LTRfootnotetext\TX@trial@ftn

```



```

23857 \let\@RTLfootnotetext\TX@trial@ftn
23858 \let\TX@vwarn\@empty
23859 \expandafter\let\expandafter\tabularx\csname tabular*\endcsname
23860 \expandafter\let\expandafter\endtabularx\csname endtabular*\endcsname
23861 \def\write{\begingroup
23862   \def\let{\afterassignment\endgroup\toks@}%
23863   \afterassignment\let\count@}%
23864   \hbadness\@M
23865   \hfuzz\maxdimen
23866   \let\hbadness\@tempcnta
23867   \let\hfuzz\@tempdima
23868   \expandafter\tabular\the\toks@
23869   \endtabular}%
23870 \TX@ckpt
23871 \TX@typeout@{\@spaces
23872   \expandafter\TX@align
23873   \the\wd\@tempboxa\space\space\space\space\space\@
23874   \expandafter\TX@align
23875   \the\TX@col@width\space\space\space\space\space\@
23876   \@spaces\the\TX@cols}}
23877
23878 \long\def\TX@LTRftntext#1{%
23879   \edef\@tempa{\the\TX@ftn\noexpand\LTRfootnotetext
23880     [\the\csname c@\@mpfn\endcsname]}%
23881   \global\TX@ftn\expandafter{\@tempa{#1}}}%
23882 \long\def\TX@xLTRftntext[#1]#2{%
23883   \global\TX@ftn\expandafter{\the\TX@ftn\LTRfootnotetext[#1]{#2}}}
23884
23885 \long\def\TX@RTLftntext#1{%
23886   \edef\@tempa{\the\TX@ftn\noexpand\RTLfootnotetext
23887     [\the\csname c@\@mpfn\endcsname]}%
23888   \global\TX@ftn\expandafter{\@tempa{#1}}}%
23889 \long\def\TX@xRTLftntext[#1]#2{%
23890   \global\TX@ftn\expandafter{\the\TX@ftn\RTLfootnotetext[#1]{#2}}}

```

149 File tabulary-xetex-bidi.def

```

23891 \ProvidesFile{tabulary-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tabulary package]
23892 \def\@testpach{\@chclass
23893   \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
23894   \ifnum \@lastchclass=7 5 \else
23895   \ifnum \@lastchclass=8 \tw@ \else
23896   \ifnum \@lastchclass=9 \thr@@
23897   \else \z@
23898   \ifnum \@lastchclass = 10 \else
23899   \edef\@nextchar{\expandafter\string\@nextchar}%
23900   \@chnum
23901   \if \@nextchar c\z@ \else
23902   \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
23903   \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
23904   \if \@nextchar C7 \else
23905   \if \@nextchar L8 \else
23906   \if \@nextchar R9 \else
23907   \if \@nextchar J10 \else

```




```

23908 \z@ \@chclass
23909 \if\@nextchar |\@ne \else
23910 \if \@nextchar !6 \else
23911 \if \@nextchar @7 \else
23912 \if \@nextchar <8 \else
23913 \if \@nextchar >9 \else
23914 10
23915 \@chnum
23916 \if \@nextchar m\thr@@\else
23917 \if \@nextchar p4 \else
23918 \if \@nextchar b5 \else
23919 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
23920 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi

```

150 File tc-xetex-xetex-bidi.def

```

23921 \ProvidesFile{tc-xetex-xetex-bidi.def}[2014/07/08 v0.1 bidi adaptations for Clipping driver]
23922 \def\@cliptoboxdim#1{%
23923   \setbox#1=\hbox{%
23924     \Gin@defaultbp\WIDTH{\wd#1}%
23925     \Gin@defaultbp\DEPTH{\dp#1}%
23926     \@tempdima\ht#1%
23927     \advance\@tempdima\dp#1%
23928     \Gin@defaultbp\TOTALHEIGHT{\@tempdima}%
23929     \beginL\special{pdf:bcontent }%
23930     \special{%
23931       pdf:literal direct
23932       0 -\DEPTH\space \WIDTH\space \TOTALHEIGHT\space re
23933     }%
23934     \special{pdf:literal direct W }%
23935     \special{pdf:literal direct n }%
23936     \if@RTL\beginR\fi\box#1\if@RTL\endR\fi%
23937     \special{pdf:econtent }\endL%
23938   }%
23939 }

```

151 File tcolorbox-xetex-bidi.def

```

23940 \ProvidesFile{tcolorbox-xetex-bidi.def}[2018/11/11 v0.2 bidi adaptations for tcolorbox package]
23941 \let\endtcbox@lrbox=\endminipage
23942 \let\endtcbox@savebox=\endtcbox@lrbox
23943
23944 \bidi@patchcmd{\tcboxvbox}{%
23945   \let\@footnotetext\@mpfootnotetext%
23946 }{%
23947   \let\@footnotetext\@mpfootnotetext%
23948   \let\@LTRfootnotetext\@mpLTRfootnotetext%
23949   \let\@RTLfootnotetext\@mpRTLfootnotetext%
23950 }{}{}
23951
23952 \bidi@patchcmd{\endtcboxvbox}{%
23953   \footnoterule%
23954 }{%
23955   \bidi@mpfootnoterule%

```



```

23956 }{}{}
23957 \bidi@apptocmd\tcb@icolorbox{%
23958   \@bidi@list@minipage@parboxfalse
23959 }{}{}

```

152 File thmbox-xetex-bidi.def

```

23960 \ProvidesFile{thmbox-xetex-bidi.def}[2025/09/04 v0.1 bidi adaptations for thmbox package for
23961 \renewenvironment{thmbox}[2][{}]{%
23962   \parskip\z@%
23963   \setkeys{thmbox}{#1}%
23964   \ifx\thmbox@style S\else\ifx\thmbox@style M\else\ifx\thmbox@style L\else%
23965     \PackageWarning{thmbox}{\thmbox@style\ is not a valid style for
23966       \string\thmbox, using M}%
23967     \let\thmbox@style=M%
23968   \fi\fi\fi%
23969   \thmbox@head{#2}\nobreak\relax%
23970   \thmbox@dim=\hsize%
23971   \advance\thmbox@dim-\leftskip%
23972   \advance\thmbox@dim-\rightskip%
23973   \setbox\thmbox@box=\vbox\bgroup%
23974     \if@RTL
23975       \@hboxRconstructtrue
23976     \fi
23977     \hsize=\thmbox@dim%
23978     \advance\hsize -\thmbox@leftmargin%
23979     \advance\hsize -\thmbox@rightmargin%
23980     \textwidth=\hsize%
23981     \linewidth=\hsize%
23982     \vskip\thmbox@vskip%
23983     \begingroup}{\endgroup%
23984     \vskip\thmbox@vskip%
23985   \egroup%
23986   \thmbox@start%
23987   \ifx\thmbox@style S\else\thmbox@tail\fi%
23988   \@endparenv}

```

153 File titlesec-xetex-bidi.def

```

23989 \ProvidesFile{titlesec-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for titlesec package
23990 \renewcommand\filright{%
23991   \gdef\ttl@filleft##1{\hskip##1}%
23992   \gdef\ttl@filright##1{\hfill}%
23993   \let\\@centercr
23994   \advance\rightskip\z@ \@plus 1fil
23995   \parfillskip\z@}
23996 \def\ttlh@hang#1#2#3#4#5#6#7#8{%
23997   \gdef\ttl@makeline##1{\ttl@calc\hspace{#6}##1\ttl@calc\hspace{#7}}%
23998   \setlength\leftskip{#6}%
23999   \setlength\rightskip{#7}%
24000   \interlinepenalty\@M
24001   \ttl@changecentercr
24002   \ttl@beginlongest
24003   #1{\ifhmode\ttl@hmode@error\fi

```



```

24004 \ttl@glcmds
24005 \parindent\z@
24006 \leavevmode
24007 \beginngroup
24008 \ifttl@label
24009 \sbox\z@{#2\strut\ttl@calc\hspace{#3}}%
24010 \ifRTL\advance\rightskip\wd\z@\else\advance\leftskip\wd\z@\fi
24011 \llap{\box\z@}%
24012 \fi
24013 #4{#8}%
24014 \kern\z@\strut\@par
24015 \endgroup
24016 \nobreak\ttl@midlongest#5\@par}%
24017 \ttl@endlongest}

```

154 File titletoc-xetex-bidi.def

```

24018 \ProvidesFile{titletoc-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for titletoc package]
24019 \renewcommand\filright{%
24020 \gdef\ttl@filleft##1{\hskip##1}%
24021 \gdef\ttl@filright##1{\hfill}%
24022 \let\\\@centercr
24023 \advance\rightskip\z@ \@plus 1fil
24024 \parfillskip\z@}
24025 \renewcommand\contentspush[1]{%
24026 \sbox\z@{#1}%
24027 \xdef\ttl@b{\advance\ifRTL\rightskip\else\leftskip\fi\the\wd\z@}%
24028 \aftergroup\ttl@b
24029 \leavevmode\llap{\box\z@}}
24030 \def\ttl@outnoblock#1#2#3{%
24031 \beginngroup
24032 \ifnum\ttl@b>\ttl@a
24033 \nobreak
24034 \else\ifnum\ttl@b<\ttl@a
24035 \addpenalty{\@secpenalty}%
24036 \else
24037 \addpenalty{\z@}%
24038 \fi\fi
24039 \ttl@contentsstretch
24040 \nobreak
24041 \ifcase#1\relax\else\interlinepenalty\@M\fi
24042 \parindent\z@
24043 \ifx\@nil#2%
24044 \PackageError{titletoc}{Unimplemented}%
24045 {The optional argument is currently mandatory}%
24046 \else
24047 \ifRTL\setlength\rightskip{#2}\else
24048 \setlength\leftskip{#2}\fi%
24049 \fi
24050 \ifRTL\setlength\leftskip{\@pnumwidth}\else\setlength\rightskip{\@pnumwidth}\fi%
24051 \let\contentsmargin\ttl@margin
24052 \def\ttl@makeline##1{##1}%
24053 #3%
24054 \addtolength{\parfillskip}{-\ttl@corr}%

```



```

24055 \ifRTL\addtolength{\leftskip}{\ttl@corr}\else\addtolength{\rightskip}{\ttl@corr}\fi%
24056 \let\ttl@leaders\leaders}
24057 \renewcommand\ttl@margin[2][\z@]{%
24058   \def\ttl@corr{#1}%
24059   \advance\ifRTL\leftskip\else\rightskip\fi-\@pnumwidth\relax
24060   \advance\ifRTL\leftskip\else\rightskip\fi#2\relax
24061   \def\@pnumwidth{#2}}
24062 \let\ttl@savel@part\l@part
24063 \def\l@part{\ttl@lselect{part}}
24064
24065 \let\ttl@savel@chapter\l@chapter
24066 \def\l@chapter{\ttl@lselect{chapter}}

```

155 File tocbibind-xetex-bidi.def

```

24067 \ProvidesFile{tocbibind-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for tocbibind packa
24068 \IfClassLoadedT{memoir}{\endinput}
24069 \if@dotocbib
24070   \ApplyPatchIfPackageLoadedF{natbib}{% natbib not loaded
24071     \renewcommand{\bibsection}{\t@cb@bchapsec}
24072     \renewenvironment{thebibliography}[1]{%
24073       \bibsection
24074       \begin{thebibitemlist}{#1}}{\end{thebibitemlist}}}
24075 \renewenvironment{thebibitemlist}[1]{
24076   \ifRTL\ifLTRbibitems\RTLfalse\else\fi\else\ifRTLbibitems\RTLtrue\else\fi\fi
24077   \bidi@thebibliography@font@hook%
24078   \list{\@biblabel{\@arabic{c@enumiv}}}%
24079     {\settowidth\labelwidth{\@biblabel{#1}}%
24080     \leftmargin\labelwidth
24081     \advance\leftmargin\labelsep
24082     \@openbib@code
24083     \usecounter{enumiv}%
24084     \let\p@enumiv\@empty
24085     \renewcommand\theenumiv{\@arabic{c@enumiv}}%
24086     \sloppy
24087     \clubpenalty4000
24088     \@clubpenalty \clubpenalty
24089     \widowpenalty4000%
24090     \sfcode\.\@m}
24091   {\def\@noitemerr
24092     {\@latex@warning{Empty `thebibliography' environment}}}%
24093   \endlist}
24094
24095 \ApplyPatchCodeToPackage{chapterbib}{%
24096   \@ifpackagewith{chapterbib}{sectionbib}%
24097     {\renewcommand{\sectionbib}[2]{}%
24098     {}%
24099   }
24100
24101 \fi
24102 \if@inltxdoc\else
24103   \renewenvironment{theindex}%
24104     {\if@twocolumn
24105       \@restonecolfalse

```



```

24106 \else
24107 \@restonecoltrue
24108 \fi
24109 \if@bibchapter
24110 \if@donumindex
24111 \refstepcounter{chapter}
24112 \twocolumn[\vspace*{2\topskip}%
24113 \@makechapterhead{\indexname}]]%
24114 \addcontentsline{toc}{chapter}{\protect\numberline{\thechapter}\indexname}
24115 \chaptermark{\indexname}
24116 \else
24117 \if@dotocind
24118 \twocolumn[\vspace*{2\topskip}%
24119 \@makeschapterhead{\indexname}]]%
24120 \prw@mkboth{\indexname}
24121 \addcontentsline{toc}{chapter}{\indexname}
24122 \else
24123 \twocolumn[\vspace*{2\topskip}%
24124 \@makeschapterhead{\indexname}]]%
24125 \prw@mkboth{\indexname}
24126 \fi
24127 \fi
24128 \else
24129 \if@donumindex
24130 \twocolumn[\vspace*{-1.5\topskip}%
24131 \@nameuse{\@tocextra}{\indexname}]]%
24132 \csname \@tocextra mark\endcsname{\indexname}
24133 \else
24134 \if@dotocind
24135 \twocolumn[\vspace*{-1.5\topskip}%
24136 \toc@headstar{\@tocextra}{\indexname}]]%
24137 \prw@mkboth{\indexname}
24138 \addcontentsline{toc}{\@tocextra}{\indexname}
24139 \else
24140 \twocolumn[\vspace*{-1.5\topskip}%
24141 \toc@headstar{\@tocextra}{\indexname}]]%
24142 \prw@mkboth{\indexname}
24143 \fi
24144 \fi
24145 \fi
24146 \thispagestyle{plain}\parindent\z@
24147 \parskip\z@ \@plus .3\p@\relax
24148 \let\item\@idxitem}
24149 {\if@restonecol\onecolumn\else\clearpage\fi}
24150 \fi

```

156 File tocloft-xetex-bidi.def

```

24151 \ProvidesFile{tocloft-xetex-bidi.def}[2025/01/03 v0.4 bidi adaptations for tocloft package f
24152 \IfClassLoadedT{memoir}{\endinput}
24153 \renewcommand{\cftpnualign}{\if@RTL l\else r\fi}
24154 \let\cftdot\@SepMark
24155 \if@cfthaspart
24156 \renewcommand*{\l@part}[2]{

```



```

24157 \@cftdopartfalse
24158 \ifnum \c@tocdepth >-2\relax
24159   \if@cfthaschapter
24160     \@cftdoparttrue
24161   \fi
24162   \ifnum \c@tocdepth >\m@ne
24163     \if@cfthaschapter\else
24164       \@cftdoparttrue
24165     \fi
24166   \fi
24167 \fi
24168 \if@cftdopart
24169   \if@cfthaschapter
24170     \addpenalty{-\@highpenalty}
24171   \else
24172     \addpenalty\@secpenalty
24173   \fi
24174   \addvspace{\cftbeforepartskip}
24175   \begingroup
24176     {\if@RTL\rightskip\else\leftskip\fi \cftpartindent\relax
24177     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24178     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24179     \parindent \cftpartindent\relax\@afterindenttrue
24180     \interlinepenalty\@M
24181     \leavevmode
24182     \@tempdima \cftpartnumwidth\relax
24183     \let\@cftbsnum \cftpartpresnum
24184     \let\@cftasnum \cftpartaftersnum
24185     \let\@cftasnumb \cftpartaftersnumb
24186     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\ri
24187     {\cftpartfont \cftpartpresnum #1}
24188     \cftpartfillnum{#2}}
24189   \nobreak
24190   \if@cfthaschapter
24191     \global\@nobreaktrue
24192     \everypar{\global\@nobreakfalse\everypar{}}
24193   \else
24194     \if@compatibility
24195       \global\@nobreaktrue
24196       \everypar{\global\@nobreakfalse\everypar{}}
24197     \fi
24198   \fi
24199   \endgroup
24200 \fi}
24201 \fi
24202 \if@cfthaschapter
24203 \renewcommand*{\l@chapter}[2]{
24204   \ifnum \c@tocdepth >\m@ne
24205     \addpenalty{-\@highpenalty}
24206     \vskip \cftbeforechapskip
24207     {\if@RTL\rightskip\else\leftskip\fi \cftchapindent\relax
24208     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24209     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24210     \parindent \cftchapindent\relax\@afterindenttrue

```



```

24211 \interlinepenalty\@M
24212 \leavevmode
24213 \@tempdima \cftchapnumwidth\relax
24214 \let\@cftbsnum \cftchappresnum
24215 \let\@cftasnum \cftchapaftersnum
24216 \let\@cftasnumb \cftchapaftersnumb
24217 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24218 {\cftchapfont #1}\nobreak
24219 \cftchapfillnum{#2}}
24220 \fi}
24221 \fi
24222 \renewcommand*{\l@section}[2]{%
24223 \ifnum \c@tocdepth >\z@
24224 \if@cfthaschapter
24225 \vskip \cftbeforesecskip
24226 \else
24227 \addpenalty\@secpenalty
24228 \addvspace{\cftbeforesecskip}
24229 \fi
24230 {\if@RTL\rightskip\else\leftskip\fi \cftsecindent\relax
24231 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24232 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24233 \parindent \cftsecindent\relax\@afterindenttrue
24234 \interlinepenalty\@M
24235 \leavevmode
24236 \@tempdima \cftsecnumwidth\relax
24237 \let\@cftbsnum \cftsecpresnum
24238 \let\@cftasnum \cftsecaftersnum
24239 \let\@cftasnumb \cftsecaftersnumb
24240 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24241 {\cftsecfont #1}\nobreak
24242 \cftsecfillnum{#2}}
24243 \fi}
24244 \renewcommand*{\l@subsection}[2]{%
24245 \ifnum \c@tocdepth >\@one
24246 \vskip \cftbeforesubsecskip
24247 {\if@RTL\rightskip\else\leftskip\fi \cftsubsecindent\relax
24248 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24249 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24250 \parindent \cftsubsecindent\relax\@afterindenttrue
24251 \interlinepenalty\@M
24252 \leavevmode
24253 \@tempdima \cftsubsecnumwidth\relax
24254 \let\@cftbsnum \cftsubsecpresnum
24255 \let\@cftasnum \cftsubsecaftersnum
24256 \let\@cftasnumb \cftsubsecaftersnumb
24257 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24258 {\cftsubsecfont #1}\nobreak
24259 \cftsubsecfillnum{#2}}
24260 \fi}
24261 \renewcommand*{\l@subsubsection}[2]{%
24262 \ifnum \c@tocdepth >\tw@
24263 \vskip \cftbeforesubsubsecskip
24264 {\if@RTL\rightskip\else\leftskip\fi \cftsubsubsecindent\relax

```



```

24265 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24266 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24267 \parindent \cftsubsubsecindent\relax\@afterindenttrue
24268 \interlinepenalty\@M
24269 \leavevmode
24270 \@tempdima \cftsubsubsecnumwidth\relax
24271 \let\@cftbsnum \cftsubsubsecpresnum
24272 \let\@cftasnum \cftsubsubsecaftersnum
24273 \let\@cftasnumb \cftsubsubsecaftersnumb
24274 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24275 {\cftsubsubsecfont #1}\nobreak
24276 \cftsubsubsecfillnum{#2}}
24277 \fi}
24278 \renewcommand*{\l@paragraph}[2]{%
24279 \ifnum \c@tocdepth >3\relax
24280 \vskip \cftbeforeparaskip
24281 {\if@RTL\rightskip\else\leftskip\fi \cftparaindent\relax
24282 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24283 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24284 \parindent \cftparaindent\relax\@afterindenttrue
24285 \interlinepenalty\@M
24286 \leavevmode
24287 \@tempdima \cftparanumwidth\relax
24288 \let\@cftbsnum \cftparapresnum
24289 \let\@cftasnum \cftparaaftersnum
24290 \let\@cftasnumb \cftparaaftersnumb
24291 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24292 {\cftparafont #1}\nobreak
24293 \cftparafillnum{#2}}
24294 \fi}
24295 \renewcommand*{\l@subparagraph}[2]{%
24296 \ifnum \c@tocdepth >4\relax
24297 \vskip \cftbeforesubparaskip
24298 {\if@RTL\rightskip\else\leftskip\fi \cftsubparaindent\relax
24299 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24300 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24301 \parindent \cftsubparaindent\relax\@afterindenttrue
24302 \interlinepenalty\@M
24303 \leavevmode
24304 \@tempdima \cftsubparanumwidth\relax
24305 \let\@cftbsnum \cftsubparapresnum
24306 \let\@cftasnum \cftsubparaaftersnum
24307 \let\@cftasnumb \cftsubparaaftersnumb
24308 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24309 {\cftsubparafont #1}\nobreak
24310 \cftsubparafillnum{#2}}
24311 \fi}
24312 \renewcommand*{\l@figure}[2]{%
24313 \ifnum \c@lofdepth >\z@
24314 \vskip \cftbeforefigskip
24315 {\if@RTL\rightskip\else\leftskip\fi \cftfigindent\relax
24316 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24317 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24318 \parindent \cftfigindent\relax\@afterindenttrue

```




```

24319 \interlinepenalty\@M
24320 \leavevmode
24321 \@tempdima \cftfignumwidth\relax
24322 \let\@cftbsnum \cftfigpresnum
24323 \let\@cftasnum \cftfigaftersnum
24324 \let\@cftasnumb \cftfigaftersnumb
24325 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24326 {\cftfigfont #1}\nobreak
24327 \cftfigfillnum{#2}}
24328 \fi
24329 }
24330 \renewcommand*{\l@table}[2]{%
24331 \ifnum\c@lotdepth >\z@
24332 \vskip \cftbeforetabskip
24333 {\if@RTL\rightskip\else\leftskip\fi \cfttabindent\relax
24334 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24335 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24336 \parindent \cfttabindent\relax\@afterindenttrue
24337 \interlinepenalty\@M
24338 \leavevmode
24339 \@tempdima \cfttabnumwidth\relax
24340 \let\@cftbsnum \cfttabpresnum
24341 \let\@cftasnum \cfttabaftersnum
24342 \let\@cftasnumb \cfttabaftersnumb
24343 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24344 {\cfttabfont #1}\nobreak
24345 \cfttabfillnum{#2}}
24346 \fi
24347 }
24348 \renewcommand{\@cftl@subfig}{
24349 \renewcommand*{\l@subfigure}[2]{%
24350 \ifnum \c@lofdepth > \toclevel@subfigure
24351 \vskip \cftbeforesubfigskip
24352 {\if@RTL\rightskip\else\leftskip\fi \cftsubfigindent\relax
24353 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24354 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24355 \parindent \cftsubfigindent\relax\@afterindenttrue
24356 \interlinepenalty\@M
24357 \leavevmode
24358 \@tempdima \cftsubfignumwidth\relax
24359 \let\@cftbsnum \cftsubfigpresnum
24360 \let\@cftasnum \cftsubfigaftersnum
24361 \let\@cftasnumb \cftsubfigaftersnumb
24362 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24363 {\cftsubfigfont ##1}\nobreak
24364 \cftsubfigfillnum{##2}}
24365 \fi
24366 }
24367 }
24368 \renewcommand{\@cftl@subtab}{
24369 \renewcommand*{\l@subtable}[2]{%
24370 \ifnum \c@lotdepth > \toclevel@subtable
24371 \vskip \cftbeforesubtabskip
24372 {\if@RTL\rightskip\else\leftskip\fi \cftsubtabindent\relax

```



```

24373 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24374 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24375 \parindent \cftsubtabindent\relax\@afterindenttrue
24376 \interlinepenalty\@M
24377 \leavevmode
24378 \@tempdima \cftsubtabnumwidth\relax
24379 \let\@cftbsnum \cftsubtabpresnum
24380 \let\@cftasnum \cftsubtabaftersnum
24381 \let\@cftasnumb \cftsubtabaftersnumb
24382 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24383 {\cftsubtabfont ##1}\nobreak
24384 \cftsubtabfillnum{##2}}
24385 \fi
24386 }
24387 }
24388 \renewcommand{\newlistentry}[4][\@empty]{%
24389 \ifundefined{c@#2}{% check & set the counter
24390 \ifx \@empty#1\relax
24391 \newcounter{#2}
24392 \else
24393 \ifundefined{c@#1}{\PackageWarning{tocloft}%
24394 {#1 has no counter for use as a `within'}
24395 \newcounter{#2}}%
24396 {\newcounter{#2}[#1]%
24397 \expandafter\edef\csname the#2\endcsname{%
24398 \expandafter\noexpand\csname the#1\endcsname\@SepMark\noexpand\arabic{#2}}}
24399 \fi
24400 \setcounter{#2}{0}
24401 }
24402 {\PackageError{tocloft}{#2 has been previously defined}{\@eha}}
24403
24404 \@namedef{l@#2}##1##2{%
24405 \ifnum \@nameuse{c@#3depth} > #4\relax
24406 \vskip \@nameuse{cftbefore#2skip}
24407 {\if@RTL\rightskip\else\leftskip\fi \@nameuse{cft#2indent}\relax
24408 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24409 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24410 \parindent \@nameuse{cft#2indent}\relax\@afterindenttrue
24411 \interlinepenalty\@M
24412 \leavevmode
24413 \@tempdima \@nameuse{cft#2numwidth}\relax
24414 \expandafter\let\expandafter\@cftbsnum\csname cft#2presnum\endcsname
24415 \expandafter\let\expandafter\@cftasnum\csname cft#2aftersnum\endcsname
24416 \expandafter\let\expandafter\@cftasnumb\csname cft#2aftersnumb\endcsname
24417 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24418 {\@nameuse{cft#2font}##1}\nobreak
24419 \@nameuse{cft#2fillnum}{##2}}
24420 \fi
24421 } % end of l@#2
24422
24423 \expandafter\newlength\csname cftbefore#2skip\endcsname
24424 \setlength{\@nameuse{cftbefore#2skip}}{\z@ \@plus .2\p@}
24425 \expandafter\newlength\csname cft#2indent\endcsname
24426 \expandafter\newlength\csname cft#2numwidth\endcsname

```



```

24427 \ifcase #4\relax % 0
24428   \setlength{\@nameuse{cft#2indent}}{0em}
24429   \setlength{\@nameuse{cft#2numwidth}}{1.5em}
24430 \or % 1
24431   \setlength{\@nameuse{cft#2indent}}{1.5em}
24432   \setlength{\@nameuse{cft#2numwidth}}{2.3em}
24433 \or % 2
24434   \setlength{\@nameuse{cft#2indent}}{3.8em}
24435   \setlength{\@nameuse{cft#2numwidth}}{3.2em}
24436 \or % 3
24437   \setlength{\@nameuse{cft#2indent}}{7.0em}
24438   \setlength{\@nameuse{cft#2numwidth}}{4.1em}
24439 \else % anything else
24440   \setlength{\@nameuse{cft#2indent}}{10.0em}
24441   \setlength{\@nameuse{cft#2numwidth}}{5.0em}
24442 \fi
24443 \@namedef{cft#2font}{\normalfont}
24444 \@namedef{cft#2presnum}{}
24445 \@namedef{cft#2aftersnum}{}
24446 \@namedef{cft#2aftersnumb}{}
24447 \@namedef{cft#2dotsep}{\cftdotsep}
24448 \@namedef{cft#2leader}{\normalfont\cftdottill{\@nameuse{cft#2dotsep}}}
24449 \@namedef{cft#2pagefont}{\normalfont}
24450 \@namedef{cft#2afterpnum}{}
24451 \@namedef{toclevel@#2}{#4}
24452 \@namedef{cft#2fillnum}##1{%
24453   {\@nameuse{cft#2leader}}\nobreak
24454   \hbxt@{\pnumwidth{\hfil\@nameuse{cft#2pagefont}}##1}\@nameuse{cft#2afterpnum}\par}
24455 } % end \newlistentry
24456 \renewcommand{\cftchapterprecistoc}[1]{\addtocontents{toc}{%
24457   {\if@RTL\rightskip\else\leftskip\fi \cftchapindent\relax
24458   \advance\if@RTL\rightskip\else\leftskip\fi \cftchapnumwidth\relax
24459   \if@RTL\leftskip\else\rightskip\fi \@tocrmarg\relax
24460   \textit{#1}\protect\par}}}

```

157 File tocbasic-xetex-bidi.def

```

24461 \ProvidesFile{tocbasic-xetex-bidi.def}[2022/06/15 v0.5 bidi adaptations for tocbasic package]
24462 \bidi@undef\scr@dte@def@l@undottedtoctline
24463 \bidi@undef\scr@dte@undottedtoctline@init
24464 \DeclareTOCEntryStyle{undottedtoctline}{%
24465   \DefineTOCEntryLengthOption{indent}%
24466   {\scr@tso@}{@indent}{entry indent}%
24467   \DefineTOCEntryLengthOption{numwidth}%
24468   {\scr@tso@}{@numwidth}{entry number width}%
24469   \@ifundefined{#1tocdepth}{%
24470     \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
24471       \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
24472         \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
24473           \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
24474             \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
24475               \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
24476                 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
24477                   \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%

```



```

24478         \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
24479             \expandafter\let\csname #1tocdepth\expandafter\endcsname
24480             \csname #1numdepth\endcsname
24481         }%
24482     }%
24483 }%
24484 }%
24485 }%
24486 }%
24487 }%
24488 }%
24489 }%
24490 }{%
24491 \@ifundefined{scr@tso@#1@indent}{%
24492     \@ifundefined{scr@#1@tocindent}{%
24493         \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24494             \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24495                 \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
24496                     \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
24497                         \scr@ifundefinedorrelax{1@chapter}{%
24498                             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{Opt}}{%
24499                                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24500                                     \Ifstr{#1}{subsubsection}{%
24501                                         \@namedef{scr@tso@#1@indent}{3.8em}%
24502                                     }{%
24503                                         \Ifstr{#1}{paragraph}{%
24504                                             \@namedef{scr@tso@#1@indent}{7em}%
24505                                         }{%
24506                                             \Ifstr{#1}{subparagraph}{%
24507                                                 \@namedef{scr@tso@#1@indent}{10em}%
24508                                             }{%
24509                                                 }%
24510                                             }%
24511                                         }%
24512                                     }%
24513                                 }%
24514                             }{%
24515                                 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24516                                     \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
24517                                         \Ifstr{#1}{subsubsection}{%
24518                                             \@namedef{scr@tso@#1@indent}{7.0em}%
24519                                         }{%
24520                                             \Ifstr{#1}{paragraph}{%
24521                                                 \@namedef{scr@tso@#1@indent}{10em}%
24522                                             }{%
24523                                                 \Ifstr{#1}{subparagraph}{%
24524                                                     \@namedef{scr@tso@#1@indent}{12em}%
24525                                                 }{%
24526                                                     }%
24527                                                 }%
24528                                             }%
24529                                         }%
24530                                     }%
24531                                 }%

```



```

24532         }%
24533     }%
24534 }%
24535 }%
24536 }{%
24537     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
24538 }%
24539 }{%
24540 \@ifundefined{scr@tso@#1@numwidth}{%
24541     \@ifundefined{scr@#1@tocnumwidth}{%
24542         \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24543             \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24544                 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
24545                     \scr@ifundefinedorrelax{chapter}{%
24546                         \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
24547                             \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24548                                 \Ifstr{#1}{subsubsection}{%
24549                                     \@namedef{scr@tso@#1@numwidth}{3.2em}%
24550                                 }{%
24551                                     \Ifstr{#1}{paragraph}{%
24552                                         \@namedef{scr@tso@#1@numwidth}{4.1em}%
24553                                     }{%
24554                                         \Ifstr{#1}{subparagraph}{%
24555                                             \@namedef{scr@tso@#1@numwidth}{5m}%
24556                                         }{%
24557                                             }%
24558                                         }%
24559                                     }%
24560                                 }%
24561                             }%
24562                         }{%
24563                             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24564                                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
24565                                     \Ifstr{#1}{subsubsection}{%
24566                                         \@namedef{scr@tso@#1@numwidth}{3.1em}%
24567                                     }{%
24568                                         \Ifstr{#1}{paragraph}{%
24569                                             \@namedef{scr@tso@#1@numwidth}{5em}%
24570                                         }{%
24571                                             \Ifstr{#1}{subparagraph}{%
24572                                                 \@namedef{scr@tso@#1@numwidth}{6em}%
24573                                             }{%
24574                                                 }%
24575                                             }%
24576                                         }%
24577                                     }%
24578                                 }%
24579                             }%
24580                         }%
24581                     }%
24582                 }%
24583             }{%
24584                 \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
24585             }%

```



```

24586 }{}%
24587 }]{%
24588 \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
24589 \ifnum \@nameuse{#1tocdepth}<\@ne
24590 \scr@ifundefinedorrelax{chapter}{%
24591 \addpenalty\@secpenalty
24592 \addvspace{1.0em \@plus\p@}%
24593 }{%
24594 \addpenalty{-\@highpenalty}%
24595 \vskip 1.0em \@plus\p@
24596 }%
24597 \else
24598 \addpenalty\@secpenalty
24599 \addvspace{1.0em \@plus\p@}%
24600 \fi
24601 \setlength\@tempdima{\@nameuse{scr@tso@#1numwidth}}%
24602 \begingroup
24603 \parindent \z@ \bidi@rightskip \@pnumwidth
24604 \parfillskip -\@pnumwidth
24605 \leavevmode
24606 \bfseries
24607 \advance\bidi@leftskip\@tempdima
24608 \If Tocfeature{\@currentt}{noindent}{%
24609 \hskip -\bidi@leftskip
24610 }{%
24611 \advance\bidi@leftskip\@nameuse{scr@tso@#1indent}%
24612 \hskip -\dimexpr \bidi@leftskip-\@nameuse{scr@tso@#1indent}\relax
24613 }%
24614 ##1%
24615 \nobreak
24616 \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
24617 \par
24618 \penalty\@highpenalty
24619 \endgroup
24620 \fi
24621 }
24622
24623 \bidi@undef\scr@dte@def@l@largetocline
24624 \bidi@undef\scr@dte@largetocline@init
24625 \DeclareTOCEntryStyle{largetocline}[{%
24626 \DefineTOCEntryLengthOption{indent}%
24627 {scr@tso@}{@indent}{entry indent}%
24628 \@ifundefined{#1tocdepth}{%
24629 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
24630 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
24631 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
24632 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
24633 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
24634 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
24635 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
24636 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
24637 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
24638 \expandafter\let\csname #1tocdepth\expandafter\endcsname
24639 \csname #1numdepth\endcsname

```



```

24640         }%
24641     }%
24642 }%
24643 }%
24644 }%
24645 }%
24646 }%
24647 }%
24648 }%
24649 }{}%
24650 \@ifundefined{scr@tso@#1@indent}{%
24651     \@ifundefined{scr@#1@tocindent}{%
24652         \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24653             \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24654                 \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
24655                     \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
24656                         \scr@ifundefinedorrelax{1@chapter}{%
24657                             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
24658                                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24659                                     \Ifstr{#1}{subsubsection}{%
24660                                         \@namedef{scr@tso@#1@indent}{3.8em}%
24661                                     }{%
24662                                         \Ifstr{#1}{paragraph}{%
24663                                             \@namedef{scr@tso@#1@indent}{7em}%
24664                                         }{%
24665                                             \Ifstr{#1}{subparagraph}{%
24666                                                 \@namedef{scr@tso@#1@indent}{10em}%
24667                                             }{%
24668                                                 }%
24669                                             }%
24670                                         }%
24671                                     }%
24672                                 }%
24673                             }{}%
24674                             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24675                                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
24676                                     \Ifstr{#1}{subsubsection}{%
24677                                         \@namedef{scr@tso@#1@indent}{7.0em}%
24678                                     }{}%
24679                                     \Ifstr{#1}{paragraph}{%
24680                                         \@namedef{scr@tso@#1@indent}{10em}%
24681                                     }{}%
24682                                     \Ifstr{#1}{subparagraph}{%
24683                                         \@namedef{scr@tso@#1@indent}{12em}%
24684                                     }{}%
24685                                     }%
24686                                 }%
24687                             }%
24688                         }%
24689                     }%
24690                 }%
24691             }%
24692         }%
24693     }%

```



```

24694     }%
24695   }{%
24696     \namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
24697   }%
24698 }{%
24699 }]{%
24700 \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
24701   \ifnum \@nameuse{#1tocdepth}<\@ne
24702     \scr@ifundefinedorrelax{chapter}{%
24703       \addpenalty\@secpenalty
24704       \addvspace{2.25em \@plus\p@}%
24705     }{%
24706       \addpenalty{-\@highpenalty}%
24707       \addvspace{2.25em \@plus\p@}%
24708     }%
24709   \else
24710     \addpenalty\@secpenalty
24711     \addvspace{2.25em \@plus\p@}%
24712   \fi
24713   \setlength\@tempdima{3em}%
24714   \begingroup
24715     \parindent \z@ \bidi@rightskip \@pnumwidth
24716     \parfillskip -\@pnumwidth
24717     \leavevmode
24718     \large
24719     \bfseries
24720     \Iftocfeature{\@current}{noindent}{%
24721     }{%
24722       \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
24723     }%
24724     ##1%
24725     \hfil \nobreak\hbext@\@pnumwidth{\hss ##2}%
24726     \par
24727     \nobreak
24728     \ifnum 0=
24729       \scr@ifundefinedorrelax{chapter}{\if@compatibility 1\else 0\fi}{1}\relax
24730       \global\@nobreaktrue
24731       \everypar{\global\@nobreakfalse\everypar{}}%
24732     \fi
24733   \endgroup
24734 \fi
24735 }
24736
24737 \renewcommand*{\scr@dte@tocline}[3]{%
24738   \ifnum \@nameuse{#1tocdepth}>\c@tocdepth
24739   \else
24740     \tocbasic@DependOnPenaltyAndTOCLevel{#1}%
24741     \addvspace{\@nameuse{scr@tso@#1@beforeskip}}\relax
24742     \@nameuse{Ifscr@tso@#1@dynindent}{%
24743       \expandafter\ifx\csname scr@tso@#1@indentfollows\endcsname\@empty
24744         \PackageWarning{tocbasic}{`dynindent' for `#1' not available}%
24745       \else
24746         \edef\reserved@a{\@nameuse{scr@tso@#1@indentfollows}}%
24747         \@for \reserved@a:=\reserved@a\do {%

```




```

24748 \scr@trim@spaces\reserved@a
24749 \ifx\reserved@a\@empty\else
24750 \scr@ifundefinedorrelax{\reserved@a tocdepth}{%
24751 }{%
24752 \ifnum \@nameuse{\reserved@a tocdepth}<\@nameuse{#1tocdepth}%
24753 \@tempdima\@nameuse{scr@tso@\reserved@a @indent}\relax
24754 \@nameuse{Ifscr@tso@\reserved@a @dynnumwidth}{%
24755 \scr@ifundefinedorrelax
24756 {scr@dte@\reserved@a @lastmaxnumwidth}{%
24757 \advance\@tempdima
24758 \@nameuse{scr@tso@\reserved@a @numwidth}\relax
24759 }{%
24760 \advance\@tempdima
24761 \@nameuse{scr@dte@\reserved@a @lastmaxnumwidth}\relax
24762 }%
24763 }{%
24764 \advance\@tempdima
24765 \@nameuse{scr@tso@\reserved@a @numwidth}\relax
24766 }%
24767 \ifdim \@tempdima>\@nameuse{scr@tso@#1@indent}\relax
24768 \expandafter\edef\csname scr@tso@#1@indent\endcsname
24769 {\the\@tempdima}%
24770 \fi
24771 \fi
24772 }%
24773 \fi
24774 }%
24775 \fi
24776 }{}%
24777 {%
24778 \Iftocfeature{\@currentx}{noindent}{%
24779 \bidi@leftskip \z@
24780 }{%
24781 \bidi@leftskip \@nameuse{scr@tso@#1@indent}\relax
24782 }%
24783 \bidi@rightskip \@nameuse{scr@tso@#1@rightindent}\relax
24784 \parfillskip -\bidi@rightskip
24785 \@nameuse{Ifscr@tso@#1@raggedpage}{%
24786 \addtolength{\parfillskip}{\z@ \@plus 1fil}%
24787 }{}%
24788 \Iftocfeature{\@currentx}{noindent}{%
24789 \parindent \z@
24790 }{%
24791 \parindent \@nameuse{scr@tso@#1@indent}\relax
24792 }%
24793 \@afterindenttrue
24794 \interlinepenalty\M
24795 \expandafter\ifx\csname ragged#1entry\endcsname\raggedright
24796 \addtolength\bidi@rightskip\@flushglue
24797 \else
24798 \def\reserved@a{\raggedright}%
24799 \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
24800 \addtolength\bidi@rightskip\@flushglue
24801 \else

```



```

24802         \renewcommand\reserved@a{\raggedright}%
24803         \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
24804             \addtolength\bidirightskip{\flushglue
24805         \fi
24806     \fi
24807 \fi
24808 \leavevmode
24809 \@tempdima \@nameuse{scr@tso@#1@numwidth}\relax
24810 \@nameuse{Ifscr@tso@#1@dynnumwidth}{%
24811     \scr@ifundefinedorrelax{scr@dte@#1@lastmaxnumwidth}{%
24812         \ifdim \@nameuse{scr@dte@#1@lastmaxnumwidth}>\@tempdima
24813             \@tempdima\@nameuse{scr@dte@#1@lastmaxnumwidth}\relax
24814         \fi
24815     }%
24816 }{}%
24817 \advance\bidileftskip \@tempdima
24818 \null\nobreak\hskip -\bidileftskip
24819 {%
24820     \usetocbasicnumberline
24821     \let\scr@dte@numberline@box\numberline@box
24822     \def\numberline@box##1{%
24823         \sbox\scr@dte@tocline@numbox{\@nameuse{scr@tso@#1@numberformat}{##1}}%
24824         \global\scr@dte@tocline@numberwidth
24825         \dimexpr\wd\scr@dte@tocline@numbox+\@nameuse{scr@tso@#1@numsep}\relax
24826     \relax
24827     \ifdim \scr@dte@tocline@numberwidth
24828         >\@nameuse{scr@dte@#1@maxnumwidth}\relax
24829         \global\@nameuse{scr@dte@#1@maxnumwidth}\scr@dte@tocline@numberwidth
24830     \fi
24831     \@nameuse{Ifscr@tso@#1@dynnumwidth}{%
24832         \ifdim \scr@dte@tocline@numberwidth
24833             >\dimexpr \@nameuse{scr@tso@#1@numwidth}%
24834                 +\@nameuse{scr@tso@#1@numsep}\relax\relax
24835         \PackageWarning{tocbasic}{%
24836             number width of #1 toc entries should be
24837             increased!\MessageBreak
24838             Currently used number width =
24839             \the\wd\scr@dte@tocline@numbox,\MessageBreak
24840             Wanted number separation
24841             \space\space\space =
24842             \the\dimexpr\@nameuse{scr@tso@#1@numsep}\relax,\MessageBreak
24843             Reserved number width \space\space\space\space\space\space =
24844             \the\dimexpr\@nameuse{scr@tso@#1@numwidth}\relax%
24845         }%
24846     \fi
24847 }%
24848 \scr@dte@numberline@box{\@nameuse{scr@tso@#1@numberformat}{##1}}%
24849 \@nameuse{Ifscr@tso@#1@breakafternumber}{%
24850     {\parfillskip\flushglue\par}\nobreak\hskip-\bidileftskip
24851 }{}%
24852 }%
24853 {\@nameuse{scr@tso@#1@entryformat}{%
24854     #2%
24855     \nobreak

```



```

24856      {%
24857          \normalfont\normalsize\@nameuse{scr@tso@#1@linefill}%
24858          \nobreak
24859          \expandafter\let\expandafter\scr@dte@pagenumberwidth
24860          \csname scr@tso@#1@pagenumberwidth\endcsname
24861          \@nameuse{scr@tso@#1@pagenumberbox}{%
24862              \@nameuse{scr@tso@#1@pagenumberformat}{#3}%
24863          }%
24864      }%
24865  }}\@par
24866  }%
24867  }%
24868  \tocbasic@SetPenaltyByTOCLevel{#1}%
24869  \fi
24870 }
24871
24872
24873 \bidi@undef\scr@dte@def@l@tocline
24874 \bidi@undef\scr@dte@tocline@init
24875 \DeclareTOCEntryStyle{tocline}[{%
24876     \DefineTOCEntryLengthOption{beforeskip}%
24877     {scr@tso@}{@beforeskip}{vertical skip before the entry}%
24878     \DefineTOCEntryIfOption{breakafternumber}%
24879     {scr@tso@}{@breakafternumber}{line break after number flag}%
24880     \DefineTOCEntryIfOption{dynnumwidth}%
24881     {scr@tso@}{@dynnumwidth}{dynamic number width flag}%
24882     \DefineTOCEntryListOption{indentfollows}%
24883     {scr@tso@}{@indentfollows}{list of levels that define the indent}%
24884     \DefineTOCEntryIfOption{dynindent}%
24885     {scr@tso@}{@dynindent}{dynamic indent width flag}%
24886     \DefineTOCEntryCommandOption{entryformat}%
24887     {scr@tso@}{@entryformat}[1]{entry format}%
24888     \DefineTOCEntryCommandOption{entrynumberformat}%
24889     {scr@tso@}{@numberformat}[1]{entry number format}%
24890     \DefineTOCEntryCommandOption{linefill}[\TOCLineLeaderFill]%
24891     {scr@tso@}{@linefill}{filling between text and page number}%
24892     \DefineTOCEntryLengthOption{numsep}%
24893     {scr@tso@}{@numsep}{entry number separation}%
24894     \DefineTOCEntryCommandOption{onstarthigherlevel}%
24895     {scr@tso@}{@LastTOCLevelWasLower}{start higher level entry hook}%
24896     \DefineTOCEntryCommandOption{onstartlowerlevel}%
24897     {scr@tso@}{@LastTOCLevelWasHigher}{start lower level entry hook}%
24898     \DefineTOCEntryCommandOption{onstartsamelevel}%
24899     {scr@tso@}{@LastTOCLevelWasSame}{start same level entry hook}%
24900     \DefineTOCEntryCommandOption{pagenumberbox}%
24901     {scr@tso@}{@pagenumberbox}[1]{page number box}%
24902     \DefineTOCEntryCommandOption{pagenumberformat}%
24903     {scr@tso@}{@pagenumberformat}[1]{page number format}%
24904     \DefineTOCEntryLengthOption{pagenumberwidth}%
24905     {scr@tso@}{@pagenumberwidth}{width of page number box}%
24906     \DefineTOCEntryLengthOption{rightindent}%
24907     {scr@tso@}{@rightindent}{entry's text right indent}%
24908     \DefineTOCEntryOption{raggedentrytext}[true]{%
24909         \FamilySetBool{KOMAarg}{raggedentrytext}{@tempswa}{##1}%

```



```

24910 \ifx\FamilyKeyState\FamilyKeyStateProcessed
24911 \if@tempswa
24912 \expandafter\let\csname ragged\scr@dte@current entry\endcsname
24913 \raggedright
24914 \else
24915 \expandafter\let\csname ragged\scr@dte@current entry\endcsname
24916 \relax
24917 \fi
24918 \fi
24919 }%
24920 \DefineTOCEntryIfOption{raggedpagenumber}%
24921 {scr@tso@}{@raggedpage}{page number ragged flag}%
24922 \DefineTOCEntryLengthOption{indent}%
24923 {scr@tso@}{@indent}{entry indent}%
24924 \DefineTOCEntryLengthOption{numwidth}%
24925 {scr@tso@}{@numwidth}{entry number width}%
24926 \scr@ifundefinedorrelax{#1tocdepth}{%
24927 \Ifstrstart{#1}{sub}{%
24928 \scr@ifundefinedorrelax{\scr@dte@nosub{#1}tocdepth}{}%
24929 \expandafter\edef\csname #1tocdepth\endcsname{%
24930 \the\numexpr \noexpand\@nameuse{\scr@dte@nosub{#1}tocdepth}+\@ne\relax
24931 }%
24932 }%
24933 }{}%
24934 }{}%
24935 \@ifundefined{#1tocdepth}{%
24936 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
24937 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
24938 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
24939 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
24940 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
24941 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
24942 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
24943 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
24944 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
24945 \expandafter\let\csname #1tocdepth\expandafter\endcsname
24946 \csname #1numdepth\endcsname
24947 }%
24948 }%
24949 }%
24950 }%
24951 }%
24952 }%
24953 }%
24954 }%
24955 }%
24956 }{}%
24957 \scr@ifundefinedorrelax{scr@tso@#1@indent}{%
24958 \@ifundefined{scr@#1@tocindent}{%
24959 \Ifstrstart{#1}{sub}{%
24960 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@indent}{%
24961 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{}%
24962 \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
24963 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%

```



```

24964         \relax
24965     }%
24966 }%
24967 }{%
24968     \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%
24969         \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
24970             \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}%
24971             \relax
24972         }%
24973     }{%
24974         \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
24975             \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}%
24976             +\noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
24977             \relax
24978         }%
24979     }%
24980 }%
24981 }{}%
24982 }{%
24983     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
24984 }%
24985 }{}%
24986 \scr@ifundefinedorrelax{scr@tso@#1@pagenumberwidth}{%
24987     \Ifstrstart{#1}{sub}{%
24988         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@pagenumberwidth}{%
24989             \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}%
24990         }{%
24991             \expandafter\let
24992             \csname scr@tso@#1@pagenumberwidth\expandafter\endcsname
24993             \csname scr@tso@\scr@dte@nosub{#1}@pagenumberwidth\endcsname
24994         }%
24995     }{%
24996         \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}%
24997     }%
24998 }{}%
24999 \scr@ifundefinedorrelax{scr@tso@#1@rightindent}{%
25000     \Ifstrstart{#1}{sub}{%
25001         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@rightindent}{%
25002             \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
25003         }{%
25004             \expandafter\let
25005             \csname scr@tso@#1@rightindent\expandafter\endcsname
25006             \csname scr@tso@\scr@dte@nosub{#1}@rightindent\endcsname
25007         }%
25008     }{%
25009         \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
25010     }%
25011 }{}%
25012 \@ifundefined{scr@tso@#1@indent}{%
25013     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25014     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25015     \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
25016     \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
25017         \scr@ifundefinedorrelax{l@chapter}{%

```



```

25018 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
25019 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25020 \Ifstr{#1}{subsubsection}{%
25021 \@namedef{scr@tso@#1@indent}{3.8em}%
25022 }{%
25023 \Ifstr{#1}{paragraph}{%
25024 \@namedef{scr@tso@#1@indent}{7em}%
25025 }{%
25026 \Ifstr{#1}{subparagraph}{%
25027 \@namedef{scr@tso@#1@indent}{10em}%
25028 }{%
25029 }%
25030 }%
25031 }%
25032 }%
25033 }%
25034 }{%
25035 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25036 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
25037 \Ifstr{#1}{subsubsection}{%
25038 \@namedef{scr@tso@#1@indent}{7.0em}%
25039 }{%
25040 \Ifstr{#1}{paragraph}{%
25041 \@namedef{scr@tso@#1@indent}{10em}%
25042 }{%
25043 \Ifstr{#1}{subparagraph}{%
25044 \@namedef{scr@tso@#1@indent}{12em}%
25045 }{%
25046 }%
25047 }%
25048 }%
25049 }%
25050 }%
25051 }%
25052 }%
25053 }%
25054 }%
25055 }%
25056 }{}%
25057 \scr@ifundefinedorrelax{scr@tso@#1@numwidth}{%
25058 \scr@ifundefinedorrelax{scr@#1@tocnumwidth}{%
25059 \Ifstrstart{#1}{sub}{%
25060 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{}%
25061 \expandafter\edef\csname scr@tso@#1@numwidth\endcsname{%
25062 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
25063 +.9em%
25064 \relax
25065 }%
25066 }%
25067 }{}%
25068 }{%
25069 \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
25070 }%
25071 }{}%

```



```

25072 \@ifundefined{scr@tso@#1@numwidth}{%
25073   \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25074     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25075       \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
25076         \scr@ifundefinedorrelax{chapter}{%
25077           \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
25078             \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25079               \Ifstr{#1}{subsubsection}{%
25080                 \@namedef{scr@tso@#1@numwidth}{3.2em}%
25081               }{%
25082                 \Ifstr{#1}{paragraph}{%
25083                   \@namedef{scr@tso@#1@numwidth}{4.1em}%
25084                 }{%
25085                   \Ifstr{#1}{subparagraph}{%
25086                     \@namedef{scr@tso@#1@numwidth}{5em}%
25087                   }{%
25088                     }%
25089                   }%
25090                 }%
25091               }%
25092             }%
25093           }{%
25094             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25095               \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
25096                 \Ifstr{#1}{subsubsection}{%
25097                   \@namedef{scr@tso@#1@numwidth}{3.1em}%
25098                 }{%
25099                   \Ifstr{#1}{paragraph}{%
25100                     \@namedef{scr@tso@#1@numwidth}{5em}%
25101                   }{%
25102                     \Ifstr{#1}{subparagraph}{%
25103                       \@namedef{scr@tso@#1@numwidth}{6em}%
25104                     }{%
25105                       }%
25106                     }%
25107                   }%
25108                 }%
25109               }%
25110             }%
25111           }%
25112         }%
25113       }%
25114     }{%
25115   \expandafter\renewcommand%
25116   \csname scr@tso@#1@LastTOCLevelWasLower\endcsname{\LastTOCLevelWasLower}%
25117   \expandafter\renewcommand%
25118   \csname scr@tso@#1@LastTOCLevelWasSame\endcsname{\LastTOCLevelWasSame}%
25119   \expandafter\renewcommand%
25120   \csname scr@tso@#1@LastTOCLevelWasHigher\endcsname{\LastTOCLevelWasHigher}%
25121   \@ifundefined{scr@tso@#1@beforeskip}{%
25122     \Ifstr{#1}{part}{%
25123       \@namedef{scr@tso@#1@beforeskip}{\glueexpr 2.25em \@plus\p@relax}%
25124     }{%
25125       \Ifstr{#1}{chapter}{%

```



```

25126         \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
25127     }{%
25128         \Ifstr{#1}{section}{%
25129             \scr@ifundefinedorrelax{1@chapter}{%
25130                 \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
25131             }{}%
25132         }{}%
25133     }%
25134 }%
25135 \expandafter\renewcommand\expandafter*%
25136 \csname scr@tso@#1@beforeskip\endcsname{\glueexpr \z@ plus .2\p@\relax}%
25137 }{%
25138 \@ifundefined{scr@dte@#1@maxnumwidth}{%
25139     \expandafter\newlength\csname scr@dte@#1@maxnumwidth\endcsname
25140     \setlength{\@nameuse{scr@dte@#1@maxnumwidth}}{\z@}%
25141 }{}%
25142 \renewcommand*{\scr@dte@donumwidth}{}%
25143 \g@addto@macro{\scr@dte@donumwidth}{\do{#1}}%
25144 \expandafter\renewcommand\expandafter*%
25145 \csname scr@tso@#1@numsep\endcsname{.4em}%
25146 \expandafter\renewcommand%
25147 \csname scr@tso@#1@numberformat\endcsname[1]{##1}%
25148 \Ifstr{#1}{part}{%
25149     \expandafter\providecommand%
25150     \csname scr@tso@#1@entryformat\endcsname[1]{\large\bfseries ##1}%
25151 }{%
25152     \Ifstr{#1}{chapter}{%
25153         \expandafter\providecommand%
25154         \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
25155     }{%
25156         \scr@ifundefinedorrelax{1@chapter}{%
25157             \Ifstr{#1}{section}{%
25158                 \expandafter\providecommand%
25159                 \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
25160             }{}%
25161         }{}%
25162         \expandafter\providecommand%
25163         \csname scr@tso@#1@entryformat\endcsname[1]{##1}%
25164     }%
25165 }%
25166 \expandafter\renewcommand
25167 \csname Ifscr@tso@#1@breakafternumber\endcsname[2]{##2}%
25168 \@ifundefined{scr@tso@#1@linefill}{%
25169     \Ifstr{#1}{part}{%
25170         \@namedef{scr@tso@#1@linefill}{\hfill}%
25171     }{%
25172         \Ifstr{#1}{chapter}{%
25173             \@namedef{scr@tso@#1@linefill}{\hfill}%
25174         }{}%
25175         \scr@ifundefinedorrelax{1@chapter}{%
25176             \Ifstr{#1}{section}{%
25177                 \@namedef{scr@tso@#1@linefill}{\hfill}%
25178             }{}%
25179         }{}%

```




```

25180         \expandafter\renewcommand%
25181         \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
25182     }%
25183 }%
25184 }{}%
25185 \expandafter\renewcommand\csname Ifscr@tso@#1@raggedpage\endcsname[2]{##2}%
25186 \Ifstr{#1}{part}{%
25187     \expandafter\providecommand%
25188     \csname scr@tso@#1@pagenumberformat\endcsname[1]{\large\bfseries ##1}%
25189 }{%
25190     \Ifstr{#1}{chapter}{%
25191         \expandafter\providecommand%
25192         \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
25193     }{%
25194         \scr@ifundefinedorrelax{1@chapter}{%
25195             \Ifstr{#1}{section}{%
25196                 \expandafter\providecommand%
25197                 \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
25198             }{}%
25199         }{}%
25200         \expandafter\providecommand%
25201         \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
25202             {\normalfont\normalcolor ##1}}%
25203     }%
25204 }%
25205 \expandafter\renewcommand%
25206 \csname scr@tso@#1@pagenumberbox\endcsname[1]{%
25207     \hb@xt@{\@nameuse{scr@dte@pagenumberwidth}}{\hfil ##1}}%
25208 \expandafter\renewcommand\csname Ifscr@tso@#1@dynnumwidth\endcsname[2]{##2}%
25209 \expandafter\renewcommand\csname Ifscr@tso@#1@dynindent\endcsname[2]{##2}%
25210 \scr@ifundefinedorrelax{scr@tso@#1@indentfollows}{%
25211     \Ifstrstart{#1}{sub}{%
25212         \expandafter\edef\csname scr@tso@#1@indentfollows\endcsname{%
25213             \scr@dte@nosub{#1}%
25214         }%
25215     }{}%
25216     \expandafter\let\csname scr@tso@#1@indentfollows\endcsname\@empty
25217 }%
25218 }{}%
25219 }]}%
25220 \scr@dte@tocline{#1}{##1}{##2}%
25221 }
25222
25223 \if@bidi@csdef{scr@tso@figure@pagenumberformat}{%
25224     \renewcommand*{\scr@tso@figure@pagenumberformat}[1]{%
25225         {\normalfont\normalcolor #1}%
25226     }%
25227 }{}
25228
25229 \if@bidi@csdef{scr@tso@table@pagenumberformat}{%
25230     \renewcommand*{\scr@tso@table@pagenumberformat}[1]{%
25231         {\normalfont\normalcolor #1}%
25232     }%
25233 }{}

```



158 File tocstyle-xetex-bidi.def

```

25235 \ProvidesFile{tocstyle-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tocstyle package]
25236 \renewcommand*{\tocstyle@dottedtocline}[5]{%
25237   \let\numberline\tocstyle@numberline
25238   \ifnum #1>\c@tocdepth \else
25239     \if@tocstyle@penalties
25240       \begingroup
25241         \@tempcnta 20010
25242         \advance \@tempcnta by -#1
25243         \ifnum \@tempcnta>\lastpenalty
25244           \aftergroup\penalty\aftergroup\@lowpenalty
25245         \fi
25246       \endgroup
25247     \fi
25248     \edef\tocstyledepth{#1}%
25249     \tocstyle@activate@features
25250     \ifx\tocstyle@feature@entryvskip\relax
25251       \vskip \z@ \@plus.2\p@
25252     \else
25253       \addvspace{\tocstyle@feature@entryvskip}%
25254     \fi
25255     {%
25256       \parskip \z@ \parindent \z@ \if@RTL\rightskip\else\leftskip\fi \z@ \if@RTL\leftskip\else\rightskip\fi
25257       \tocstyle@feature@raggedhook
25258       \@tempdima #3\relax
25259       \@tempdimb #2\relax
25260       \typeout{m (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25261       \ifnum #1>\z@\relax
25262         \@tempcnta #1\relax \advance\@tempcnta \m@ne
25263         \ifcsname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25264           \ifcsname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25265             \@tempdimb
25266             \csname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25267             \advance\@tempdimb
25268             \csname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25269           \fi
25270         \fi
25271       \fi
25272       \typeout{C (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25273       \ifcsname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname
25274         \ifdim \@tempdimb>
25275           \csname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname\relax
25276           \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
25277             @#1\endcsname{\the\@tempdimb}%
25278         \fi
25279       \else
25280         \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
25281           @#1\endcsname{\the\@tempdimb}%
25282       \fi
25283       \iftocstyle@autolength
25284         \ifcsname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname

```



```

25285         \@tempdimb \csname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
25286         \relax
25287     \fi
25288     \ifcsname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
25289         \@tempdima \csname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
25290         \relax
25291     \fi
25292     \typeout{a (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25293     \typeout{A (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25294 \else
25295     \@tempdimb #2\relax
25296     \typeout{M (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25297 \fi
25298 \ifcsname tocstyle@unumwidth@\tocstyleTOC @\endcsname
25299     \ifdim \@tempdima>
25300         \csname tocstyle@unumwidth@\tocstyleTOC @\endcsname\relax
25301         \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
25302             @\endcsname{\the\@tempdima}%
25303     \fi
25304 \else
25305     \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
25306         @\endcsname{\the\@tempdima}%
25307 \fi
25308 \ifcase\tocstyle@indentstyle\relax\else
25309     \@tempdimb \z@
25310     \ifcsname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
25311         \@tempdima \csname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
25312         \relax
25313     \fi
25314     \typeout{s (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25315     \typeout{S (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25316 \fi
25317 \advance\parindent \@tempdimb\@afterindenttrue
25318 \advance\if@RTL\rightskip\else\leftskip\fi \parindent
25319 \advance\if@RTL\leftskip\else\rightskip\fi \@tocrmarg
25320 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
25321 \ifx\tocstyle@feature@parfillskip\relax\else
25322     \advance\parfillskip \tocstyle@feature@parfillskip\relax
25323 \fi
25324 \interlinepenalty\@M
25325 \leavevmode
25326 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
25327 \null\nobreak
25328 \iftocstyle@indentnotnumbered\else
25329     \hskip -\if@RTL\rightskip\else\leftskip\fi
25330 \fi
25331 \tocstyle@feature@entryhook
25332 {#4}\nobreak
25333 \ifx\tocstyle@feature@leaders\relax
25334     \leaders\hbox{$\m@th
25335         \mkern \@dotsep mu\hbox{\tocstyle@feature@dothook .}%
25336         \mkern \@dotsep mu$}\hfill
25337 \else
25338     \tocstyle@feature@leaders

```



```

25339 \fi
25340 \nobreak
25341 \ifx\tocstyle@feature@pagenumberbox\relax
25342 \hb@xt@\@pnumwidth{\hfil\tocstyle@feature@pagenumberhook #5}%
25343 \else
25344 \tocstyle@feature@pagenumberbox{\tocstyle@feature@pagenumberhook #5}%
25345 \fi
25346 \par
25347 }%
25348 \if\tocstyle@penalties
25349 \bgroup
25350 \@tempcnta 20009
25351 \advance\@tempcnta by -#1
25352 \edef\reserved@a{\egroup\penalty\the\@tempcnta\relax}%
25353 \reserved@a
25354 \fi
25355 \fi}
25356 \renewcommand*{\tocstyle@numberline}[1]{%
25357 \begingroup
25358 \ifx\tocstyle@feature@spaceafternumber\relax
25359 \settowidth\@tempdima{\tocstyle@@numberline{#1}\enskip}%
25360 \else
25361 \settowidth\@tempdima{\tocstyle@@numberline{#1}}%
25362 \advance \@tempdima \tocstyle@feature@spaceafternumber\relax
25363 \fi
25364 \ifcsname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname
25365 \ifdim \@tempdima >
25366 \csname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname\relax
25367 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
25368 @\tocstyledepth\endcsname{\the\@tempdima}%
25369 \fi
25370 \else
25371 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
25372 @\tocstyledepth\endcsname{\the\@tempdima}%
25373 \fi
25374 \endgroup
25375 \iftocstyle@indentnotnumbered
25376 \hskip -\if@RTL\rightskip\else\leftskip\fi
25377 \fi
25378 \ifcase \tocstyle@indentstyle
25379 \hb@xt@\@tempdima{\tocstyle@@numberline{#1}\hfil}%
25380 \or
25381 \hb@xt@\@tempdima{\tocstyle@@numberline{#1}\hfil}%
25382 \else
25383 \ifx\tocstyle@feature@spaceafternumber\relax
25384 \hbox{\tocstyle@@numberline{#1}\enskip}%
25385 \else
25386 \hbox{\tocstyle@@numberline{#1}\hskip
25387 \tocstyle@feature@spaceafternumber\relax}%
25388 \fi
25389 \fi
25390 }
25391 \AtBeginDocument{%
25392 \ifcsname l@part\endcsname

```



```

25393 \ifcsname l@chapter\endcsname
25394 \setbox\@tempboxa\vbox{\hsize\maxdimen
25395 \l@part{\tocstyle@l@define{part}{-1}}{}}%
25396 \else
25397 \setbox\@tempboxa\vbox{\hsize\maxdimen
25398 \l@part{\tocstyle@l@define{part}{0}}{}}%
25399 \fi
25400 \fi
25401 \ifcsname l@chapter\endcsname
25402 \setbox\@tempboxa\vbox{\hsize\maxdimen
25403 \l@chapter{\tocstyle@l@define{chapter}{0}}{}}%
25404 \fi
25405 \ifcsname l@section\endcsname
25406 \setbox\@tempboxa\vbox{\hsize\maxdimen
25407 \l@section{\tocstyle@l@define{section}{1}}{}}%
25408 \fi
25409 \ifcsname l@subsection\endcsname
25410 \setbox\@tempboxa\vbox{\hsize\maxdimen
25411 \l@subsection{\tocstyle@l@define{subsection}{2}}{}}%
25412 \fi
25413 \ifcsname l@subsubsection\endcsname
25414 \setbox\@tempboxa\vbox{\hsize\maxdimen
25415 \l@subsubsection{\tocstyle@l@define{subsubsection}{3}}{}}%
25416 \fi
25417 \ifcsname l@paragraph\endcsname
25418 \setbox\@tempboxa\vbox{\hsize\maxdimen
25419 \l@paragraph{\tocstyle@l@define{paragraph}{4}}{}}%
25420 \fi
25421 \ifcsname l@subparagraph\endcsname
25422 \setbox\@tempboxa\vbox{\hsize\maxdimen
25423 \l@subparagraph{\tocstyle@l@define{subparagraph}{5}}{}}%
25424 \fi
25425 \ifcsname l@table\endcsname
25426 \setbox\@tempboxa\vbox{\hsize\maxdimen
25427 \l@table{\tocstyle@l@define{table}{1}}{}}%
25428 \fi
25429 \ifcsname l@figure\endcsname
25430 \setbox\@tempboxa\vbox{\hsize\maxdimen
25431 \l@figure{\tocstyle@l@define{figure}{1}}{}}%
25432 \fi
25433 \def\@tempa#1#2#3#4#5{%
25434 \ifnum #1>\c@tocdepth \else
25435 \vskip \z@ \@plus.2\p@
25436 {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@toc
25437 \parindent #2\relax\@afterindenttrue
25438 \interlinepenalty\@M
25439 \leavevmode
25440 \@tempdima #3\relax
25441 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\ri
25442 {#4}\nobreak
25443 \leaders\hbox{$\m@th
25444 \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
25445 mu$}\hfill
25446 \nobreak

```



```

25447         \hb@xt@{\pnumwidth{\hfil \normalfont \normalcolor #5}}%
25448         \par}%
25449     \fi}%
25450 \ifx\@dottedtocline\@tempa\else
25451     \tocstyle@macrochangewarning\@dottedtocline
25452 \fi
25453 \let\tocstyle@saved@dottedtocline\@dottedtocline
25454 \def\@tempa#1{\hb@xt@{\tempdima{#1}\autodot\hfil}}%
25455 \ifx\numberline\@tempa\else
25456     \def\@tempa#1{\hb@xt@{\tempdima{#1}\hfil}}%
25457     \ifx\numberline\@tempa\else
25458         \tocstyle@macrochangewarning\numberline
25459     \fi
25460 \fi
25461 \let\tocstyle@saved\@numberline\@numberline
25462 }
25463 \renewcommand*{\tocstyle@l@define}[2]{%
25464     \advance\ifRTL\rightskip\else\leftskip\fi-\@tempdima
25465     \edef\@tempa{%
25466         \noexpand\global\noexpand\let
25467         \expandafter\noexpand\csname tocstyle@saved@l@#1\endcsname
25468         \expandafter\noexpand\csname l@#1\endcsname
25469         \noexpand\gdef
25470         \expandafter\noexpand\csname tocstyle@l@#1\endcsname{%
25471             \noexpand\@dottedtocline{#2}{\the\ifRTL\rightskip\else\leftskip\fi}{\the\@tempdima}}%
25472         \noexpand\g@addto@macro\noexpand\tocstyle@activate@all@l{%
25473             \noexpand\let\expandafter\noexpand\csname l@#1\endcsname
25474             \expandafter\noexpand\csname tocstyle@l@#1\endcsname
25475         }%
25476     }%
25477     \PackageInfo{tocstyle}{prepare \expandafter\string
25478         \csname l@#1\endcsname\space for redefinition}%
25479     \@tempa
25480 }

```

159 File todonotes-xetex-bidi.def

```

25481 \ProvidesFile{todonotes-xetex-bidi.def}[2016/11/08 v0.4 bidi adaptations for todonotes packa
25482 \newif\if@bidi@todonotes@textdirection@RTL
25483 \newif\if@bidi@todonotes@figposition@right
25484 \newcommand{\@bidi@todonotes@align}{}%
25485 \define@key{todonotes}{align}{\renewcommand{\@bidi@todonotes@align}{#1}}%
25486 \newcommand{\@bidi@todonotes@textdirection}{}%
25487 \define@choicekey{todonotes}{textdirection}[\@bidi@todonotes@tempa\@bidi@todonotes@tempb]{right,
25488     \ifcase\@bidi@todonotes@tempb\relax
25489         \@bidi@todonotes@textdirection@RTLtrue
25490         \let\@bidi@todonotes@textdirection\@RLE
25491     \or
25492         \@bidi@todonotes@textdirection@RTLfalse
25493         \let\@bidi@todonotes@textdirection\@LRE
25494     \fi}
25495 \define@choicekey{todonotes}{figposition}[\@bidi@todonotes@tempa\@bidi@todonotes@tempb]{right,
25496     \ifcase\@bidi@todonotes@tempb\relax
25497         \@bidi@todonotes@figposition@righttrue

```



```

25498 \or
25499 \@bidi@todonotes@figposition@rightfalse
25500 \fi}
25501 \if@todonotes@disabled%
25502 \else % \if@todonotes@disabled
25503 \renewcommand{\@todonotes@drawInlineNote}{%
25504 \if@todonotes@dviStyle%
25505 {\par\noindent\begin{tikzpicture}[remember picture]%
25506 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
25507 \if@todonotes@authorgiven%
25508 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
25509 \else%
25510 {\noindent \@todonotes@sizecommand \@todonotes@text}%
25511 \fi
25512 {\par\noindent\begin{tikzpicture}[remember picture]%
25513 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
25514 \else%
25515 {\par\noindent\begin{tikzpicture}[remember picture]%
25516 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
25517 \draw node[inlinenotestyle,font=\@todonotes@sizecommand,align=\@bidi@todonotes@
25518 \if@todonotes@authorgiven%
25519 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text
25520 \else%
25521 {\noindent \@todonotes@sizecommand \@todonotes@text}%
25522 \fi};%
25523 \end{tikzpicture}\par}%
25524 \fi}%
25525 \renewcommand{\@todonotes@drawMarginNoteWithLine}{%
25526 \begin{tikzpicture}[remember picture, overlay, baseline=-0.75ex]%
25527 \node [coordinate] (inText) {};%
25528 \end{tikzpicture}%
25529 \marginpar[{\% Draw note in left margin
25530 \@todonotes@drawMarginNote%
25531 \if@RTL\@todonotes@drawLineToRightMargin\else\@todonotes@drawLineToLeftMargin\fi%
25532 }]{\% Draw note in right margin
25533 \@todonotes@drawMarginNote%
25534 \if@RTL\@todonotes@drawLineToLeftMargin\else\@todonotes@drawLineToRightMargin\fi%
25535 }%
25536 }%
25537 \renewcommand{\@todonotes@drawMarginNote}{%
25538 \if@todonotes@dviStyle%
25539 \begin{tikzpicture}[remember picture]%
25540 \draw node[notestyle] {};%
25541 \end{tikzpicture}\\%
25542 \begin{minipage}{\@todonotes@textwidth}%
25543 \if@todonotes@authorgiven%
25544 \@todonotes@sizecommand \@todonotes@author \@todonotes@text%
25545 \else%
25546 \@todonotes@sizecommand \@todonotes@text%
25547 \fi%
25548 \end{minipage}\\%
25549 \begin{tikzpicture}[remember picture]%
25550 \draw node[notestyle] (inNote) {};%
25551 \end{tikzpicture}%

```



```

25552 \else%
25553   \let\originalHbadness\hbadness%
25554   \hbadness 100000%
25555   \begin{tikzpicture}[remember picture,baseline=(X.base)]%
25556     \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
25557     \node(X){\vphantom{X}};%
25558     \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]{\@todonotes@text};%
25559     \if@todonotes@authorgiven%
25560       \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]{\@todonotes@sizecommand\@todonotes@author};%
25561       \node(Y)[below=of X]{};%
25562       \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]{\@todonotes@text};%
25563     \else%
25564       \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]{\@todonotes@text};%
25565     \fi%
25566   \end{tikzpicture}%
25567   \hbadness \originalHbadness%
25568 \fi%
25569 \renewcommand{\missingfigure}[2]{}%
25570 \setkeys{todonotes}{#1}%
25571 \addcontentsline{tdo}{todo}{\@todonotes@MissingFigureText: #2}%
25572 \par
25573 \noindent
25574 \begin{tikzpicture}
25575   \draw[fill=\@todonotes@currentfigcolor, draw = black!40, line width=2pt]
25576     (-2, -2.5) rectangle +(\@todonotes@currentfigwidth, \@todonotes@currentfigheight);
25577   \if@bidi@todonotes@figposition@right%
25578     \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
25579       \draw[red, fill=white, rounded corners = 5pt, line width=10pt]
25580         (30:2cm) -- (150:2cm) -- (270:2cm) -- cycle;
25581       \if@bidi@todonotes@figposition@right%
25582         \end{scope}
25583       \begin{scope}[xshift=-3.8cm]
25584         \draw (2, -0.3) node[right, text
25585           width=\@todonotes@currentfigwidth-4.5cm,align=\@bidi@todonotes@align] {#2};
25586       \if@bidi@todonotes@figposition@right%
25587         \end{scope}
25588       \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
25589         \draw (0, 0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@text}};
25590         \draw (0, -0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@text}};
25591       \if@bidi@todonotes@figposition@right%
25592         \end{scope}
25593       \end{scope}
25594     \fi%
25595   \end{tikzpicture}\hfill
25596 }% Ending \missingfigure command
25597 \fi % Ending \@todonotes@ifdisabled
25598 \presetkeys%

```




```

25606 {todonotes}%
25607 {align=left,%
25608 textdirection=lefttoright,%
25609 figposition=left}{}%

```

160 File wrapfig-xetex-bidi.def

```

25610 \ProvidesFile{wrapfig-xetex-bidi.def}[2014/04/23 v0.3 bidi adaptations for wrapfig package f
25611 \let\WF@@everypar\ bidi@n@everypar
25612 \def\WF@putfigmaybe{%
25613 \ifinner
25614 \vskip-\parskip \global\WF@floatfalse
25615 \let\pagetotal\maxdimen % kludge flag for "not top of page"
25616 \else % outer page
25617 \@tempdima\pagedepth % save page depth
25618 {\advance\parskip\@tempdima\if@RTL\advance\parskip\baselineskip\fi\vskip-\parskip}% back
25619 \penalty\interlinepenalty % update pg. parameters
25620 \@tempdimb\pagegoal \advance\@tempdimb-\pagetotal % room left on page
25621 \ifdim\@tempdimb<\z@ % \WF@info{Page overfull already;}%
25622 \global\WF@floatfalse
25623 \ifdim-\@tempdimb>\pageshrink \else \pagebreak \fi
25624 \else
25625 \ifdim\WF@size>\@tempdimb
25626 \ifWF@float \dimen@.5\baselineskip \else \dimen@ 2\baselineskip\fi
25627 \ifdim\pagestretch>\dimen@ \dimen@\pagestretch \fi
25628 \ifdim\pagefilstretch>\z@ \dimen@\@tempdimb \fi
25629 \ifdim\pagefillstretch>\z@ \dimen@\@tempdimb \fi
25630 \advance\dimen@.5\baselineskip
25631 \ifdim\dimen@>\@tempdimb % \WF@info{Page nearly full; can stretch;}%
25632 \global\WF@floatfalse \pagebreak
25633 \fi
25634 \else % \WF@info{Fits in \the\@tempdimb;}%
25635 \global\WF@floatfalse
25636 \fi\fi
25637 \vskip\@tempdima\relax % (return erased page depth)
25638 \fi
25639 \noindent
25640 \ifWF@float
25641 \WF@fltmes
25642 \else % putting here;
25643 \WF@info{Put \WF@wfname here;}%
25644 {\ifodd\if@twoside\c@page\else\@ne\fi % assign l/r to i/o placement
25645 \lccode`i`l\lccode`o`r\else \lccode`i`r\lccode`o`l\fi
25646 \xdef\WF@place{\the\lccode\lccode\WF@place}}% twice to get only l or r
25647 \hbox to\z@{% llap or rlap depending on {l} or {r}; calc effective width
25648 \@tempdima\wd\WF@box \@tempdimb\WF@ovh
25649 \advance\@tempdima-\@tempdimb \advance\@tempdima\columnsep
25650 \@tempdimb\hsize \advance\@tempdimb-\@tempdima
25651 \xdef\WF@adjlw{\the\@tempdima}%
25652 \ifnum `l=\WF@place % fig on left
25653 \if@RTL%
25654 \kern\@tempdimb \kern\columnsep
25655 \def\@tempa{\hss}% position to left of the gap
25656 \else%

```



```

25657 \hss % figure overlaps space to the left
25658 \def\@tempa{\kern\columnsep}% position to left of the gap
25659 \fi%
25660 \else % fig on right
25661 \if@RTL%
25662 \hss
25663 \@tempdima\z@
25664 \def\@tempa{\kern\columnsep}
25665 \else%
25666 \@tempdima\z@ % no left indentation
25667 \kern\@tempdimb \kern\columnsep
25668 \def\@tempa{\hss}% figure overlaps space to the right
25669 \fi%
25670 \fi
25671 \ifdim\@tempdimb<\hsize
25672 \xdef\WF@wrapil{\the\@tempdima \the\@tempdimb}% indentation and length
25673 \xdef\WF@adjtlm{\the\@tempdima}%
25674 \else
25675 \xdef\WF@wrapil{\z@ \the\hsize}%
25676 \xdef\WF@adjlw{\z@}\xdef\WF@adjtlm{\z@}%
25677 \fi
25678 \ifdim\pagetotal=\z@ % \WF@info{Put \WF@wfname at top of p.\thepage}%
25679 \global\advance\WF@size-\intextsep
25680 \else % \WF@info{Putting \WF@wfname in middle of page}%
25681 \setbox\WF@box\hbox{\lower\intextsep\box\WF@box}%
25682 \fi \dp\WF@box\z@ \box\WF@box \@tempa
25683 }% end \hbox to Opt
25684 \aftergroup\WF@startwrapping % after the \endgroup which immediately follows
25685 \fi}

```

161 File xcolor-xetex-bidi.def

```

25686 \ProvidesFile{xcolor-xetex-bidi.def}[2022/06/13 v0.3 bidi adaptations for xcolor package for
25687 \long\def\color@b@x#1#2#3%
25688 {\leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
25689 \setbox\z@\hbox{\kern\fbboxsep{\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
25690 \dimen@ht\z@\advance\dimen@fboxsepht\z@\dimen@
25691 \dimen@dp\z@\advance\dimen@fboxsepdp\z@\dimen@
25692 {#1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}\box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
25693 \protected\def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup
25694 \DeclareRobustCommand\color
25695 {\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor]}
25696 \def\@undeclaredcolor[#1]#2%
25697 {\begingroup
25698 \let\@cls\empty
25699 \XC@getmodclr12{#1}{#2}{}%
25700 {\ifblendcolors
25701 \ifx\colorblend\empty\else
25702 \edef\@cmix{\expandafter\@gobble\colorblend}\@tempswafalse
25703 \XC@coremodel\@mod\@clr\xcolor@{ }\@mod\@clr
25704 \fi
25705 \fi
25706 \ifconvertcolorsU
25707 \edef\@tmp{\XC@tgt@mod{\@mod}}%

```



```

25708     \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
25709   \fi
25710   \ifmaskcolors
25711     \convertcolorspec\@mod\@clr\XC@mmod\@clr
25712     \let\@mod\XC@mmod
25713     \XC@inflate\@mod\XC@mclr\@clr\@tmp
25714     \expandafter\XC@mul\@tmp,\@clr
25715   \fi
25716   \edef\@tmp{\noexpand\XC@undeclaredcolor{\@mod}{\@clr}}%
25717   \expandafter\endgroup\@tmp}}
25718 \def\@declaredcolor#1%
25719 {\XC@edef\XC@tmp{#1}\XC@tstfalse
25720  \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
25721    \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
25722    \ifconvertcolorsU\XC@tsttrue\fi
25723  \fi
25724  \ifXC@tst
25725    \expandafter\XC@declaredcolor\else
25726    \expandafter\XC@declaredcolor\fi}
25727 \def\XC@undeclaredcolor#1#2%
25728 {\@ifundefinedmodel{#1}%
25729  {\c@color@error{model `#1'}}%
25730  {\@nameuse{color@#1}\current@color{#2}}%
25731  \edef\XC@current@color{\noexpand\xcolor@}{\current@color}{#1}{#2}}%
25732  \XC@display\ifhmode\ifRTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
25733 \def\XC@declaredcolor
25734 {\XC@let\Nc\XC@current@color{\string\color@\XC@tmp}%
25735  \edef\current@color{\XC@current@color}%
25736  \XC@display\ifhmode\ifRTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
25737 \DeclareRobustCommand\bidicolor
25738 {\@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}
25739 \def\@bidiundeclaredcolor[#1]#2%
25740 {\begingroup
25741  \let\@cls\@empty
25742  \XC@getmodclr12{#1}{#2}{}%
25743  {\ifblendcolors
25744    \ifx\colorblend\@empty\else
25745      \edef\@mix{\expandafter\@gobble\colorblend}\@tempwafalse
25746      \XC@coremodel\@mod\@clr\xcolor@}{\@mod\@clr
25747    \fi
25748  \fi
25749  \ifconvertcolorsU
25750    \edef\@tmp{\XC@tgtmod{\@mod}}%
25751    \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
25752  \fi
25753  \ifmaskcolors
25754    \convertcolorspec\@mod\@clr\XC@mmod\@clr
25755    \let\@mod\XC@mmod
25756    \XC@inflate\@mod\XC@mclr\@clr\@tmp
25757    \expandafter\XC@mul\@tmp,\@clr
25758  \fi
25759  \edef\@tmp{\noexpand\XC@bidiundeclaredcolor{\@mod}{\@clr}}%
25760  \expandafter\endgroup\@tmp}}
25761 \def\XC@bidiundeclaredcolor#1#2%

```



```

25762 {\@ifundefinedmodel{#1}%
25763   {\c@lor@error{model `#1'}}}%
25764   {\@nameuse{color@#1}\current@color{#2}%
25765     \edef\XC@current@color{\noexpand\xcolor@{}{\current@color}{#1}{#2}}%
25766     \XC@display}}
25767 \def\@bidideclaredcolor#1%
25768 {\XC@edef\XC@@tmp{#1}\XC@@tstfalse
25769 \ifcase\XC@type\XC@@tmp\relax \XC@@tsttrue\or \relax\else
25770   \ifblendcolors\XC@@tsttrue\fi \ifmaskcolors\XC@@tsttrue\fi
25771   \ifconvertcolorsU\XC@@tsttrue\fi
25772 \fi
25773 \ifXC@@tst
25774   \expandafter\XC@bidideclaredcolor\else
25775   \expandafter\XC@bidideclaredc@lor\fi}
25776 \def\XC@bidideclaredcolor
25777 {\XC@split\XC@@tmp
25778 \edef\@tmp{\noexpand\@bidiundeclaredcolor[\@mod]{\@clr}}%
25779 \expandafter\endgroup\@tmp}
25780 \def\XC@bidideclaredc@lor
25781 {\XC@let\Nc\XC@current@color{\string\color@\XC@@tmp}%
25782 \edef\current@color{\XC@current@color}%
25783 \XC@display}
25784 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
25785 \def\color@fbbox#1#2#3{\protect\color@fb@x{#1}{#2}{#3}}
25786 \def\color@fb@x#1#2#3#4%
25787 {\color@b@x{\fbboxsep\z@\bidicolor#1{#2}\XC@fbbox}%
25788   {\@ifxempty{#3}{\bidicolor#1}{\bidicolor#3}{#4}}}
25789 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmod

```

162 File latex-xetex-bidi.def

```

25790 \ProvidesFile{latex-xetex-bidi.def}[2025/01/03 v1.5.2 bidi adaptations for `latex.ltx' for
25791 \newcommand{\TeXXeTOn}{\TeXXeTstate\@ne}
25792 \newcommand{\TeXXeTOff}{\TeXXeTstate\z@}
25793 \TeXXeTOn
25794 \def\bidi@RTL@everypar{\setbox\z@ \lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebo
25795 \let\bidi@o@everypar=\everypar
25796 \newtoks\bidi@n@everypar
25797 \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
25798 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
25799 \let\everypar=\bidi@n@everypar
25800 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
25801 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
25802 \protected\def\hboxR{\hbox\bgroup
25803 \everyhbox{%
25804 \aftergroup\egroup
25805 \everyhbox{}}%
25806 \beginR
25807 \@hboxRconstructtrue
25808 \bgroup
25809 \aftergroup\endR
25810 \aftergroup\egroup
25811 }\hbox}
25812 \protected\def\hboxL{\hbox\bgroup

```



```

25813 \everyhbox{%
25814 \aftergroup\egroup
25815 \everyhbox{}}%
25816 \beginL
25817 \@hboxRconstructfalse
25818 \bgroup
25819 \aftergroup\endL
25820 \aftergroup\egroup
25821 }\hbox}
25822 \protected\def\vboxR{\vbox\bgroup
25823 \everyvbox{%
25824 \aftergroup\egroup
25825 \everyvbox{}}%
25826 \@RTLtrue
25827 \@RTLtabtrue
25828 \bgroup
25829 \aftergroup\egroup
25830 }\vbox}
25831 \protected\def\vboxL{\vbox\bgroup
25832 \everyvbox{%
25833 \aftergroup\egroup
25834 \everyvbox{}}%
25835 \@RTLfalse
25836 \@RTLtabfalse
25837 \bgroup
25838 \aftergroup\egroup
25839 }\vbox}
25840 \newcommand*{\bidi@leftskip}{\if@RTL\righskip\else\leftskip\fi}
25841 \newcommand*{\bidi@rightskip}{\if@RTL\leftskip\else\righskip\fi}
25842 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\hsize\linewidth\parshape\z@\bidi@beamer}
25843 \def\endLTR{\par}
25844 \newenvironment{LTR*}{\LTR
25845 \everypar{%
25846 {\setbox\z@\lastbox
25847 \ifvoid\z@
25848 \kern-\parindent
25849 \fi}%
25850 }%
25851 }{\endLTR\@endpetrue}
25852 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\@RTLtabtrue\hsize\linewidth\parshape\z@\bidi@beamer}
25853 \def\endRTL{\par}
25854 \newenvironment{RTL*}{\RTL
25855 \everypar{%
25856 {\setbox\z@\lastbox
25857 \ifvoid\z@
25858 \kern-\parindent
25859 \fi}%
25860 }%
25861 }{\endRTL\@endpetrue}
25862 \def\setRTL{\@RTLtrue\@RTL@footnotetrue\@RTLtabtrue\bidi@beamer@ragged}
25863 \def\setLTR{\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\bidi@beamer@ragged}
25864 \let\unsetRTL=\setRTL
25865 \let\unsetLTR=\setLTR
25866 \let\LR=\LRE

```



```

25867 \let\RL=\RLE
25868 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
25869 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
25870 \let\@ensure@RL=\@ensure@RTL
25871 \let\@ensure@LR=\@ensure@LTR
25872 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
25873 \let\@ensure@maindir=\@ensure@dir
25874 \def\@RTL{RTL}
25875 \def\@LTR{LTR}
25876 \def\save@dir{\if@RTL\gdef\save@@dir{RTL}\else\gdef\save@@dir{LTR}\fi}
25877 \def\reset@dir{\ifx\save@@dir\@RTL\setRTL\else\ifx\save@@dir\@LTR\setLTR\else\relax\fi}
25878 \let\@TeX\TeX
25879 \def\TeX{\@ensure@LTR{\@TeX}}
25880 \let\@LaTeX\LaTeX
25881 \def\LaTeX{\@ensure@LTR{\@LaTeX}}
25882 \let\@LaTeXe\LaTeXe
25883 \def\LaTeXe{\@ensure@LTR{\@LaTeXe}}
25884 \long\def\@bidi@reflect@box#1{%
25885   \leavevmode
25886   \setbox\z@\hbox{#1}}%
25887   \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
25888   \hb@xt@\wd\z@{\kern\wd\z@\box\tw@\hss}}%
25889 }
25890 \if@bidi@csundef{XeTeX}{%
25891 \bidi@newrobustcmd*{\XeTeX}{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
25892   \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}%
25893 }{%
25894 \let\@bidi@orig@XeTeX\XeTeX
25895 \bidi@renewrobustcmd*{\XeTeX}{\LR{\@bidi@orig@XeTeX}}%
25896 }
25897 \if@bidi@csundef{XeLaTeX}{%
25898 \bidi@newrobustcmd*{\XeLaTeX}{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
25899   \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \LaTeX}}$}}%
25900 }{%
25901 \let\@bidi@orig@XeLaTeX\XeLaTeX
25902 \bidi@renewrobustcmd*{\XeLaTeX}{\LR{\@bidi@orig@XeLaTeX}}%
25903 }
25904 \let\setRL=\setRTL
25905 \let\setLR=\setLTR
25906 \let\unsetRL=\setLTR
25907 \def\@bidi@tabular@RTLcases{\let\@halignto\@empty\@bidi@tabular@RTLcases}
25908 \ApplyPatchIfPackageLoaded{array}{%
25909 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
25910   \leavevmode
25911   \hbox \bgroup $\left.\col@sep\tabcolsep \let\d@llarbegin\begin\group
25912     \let\d@llarend\end\group
25913   \@tabarray}
25914 \def\endbidi@tabular@RTLcases{\endarray \right\rbrace$\egroup}
25915 }{%
25916 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
25917   \leavevmode \hbox \bgroup
25918   $\left.\let\@acol\@tabacol
25919   \let\@classz\@tabclassz
25920   \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}

```



```

25921
25922 \def\endbidi@tabular@RTLcases{\crrc\egroup\if@RTLtab\egroup\endR\egroup\fi
25923         \egroup\right\rbrace $\egroup}}
25924 \def\RTLcases#1{\left.\vcenter{\normalbaselines\m@th
25925     \ialign{##\hfil$\&\quad{##}\hfil\crrc#1\crrc}}\,\,\right\}}
25926 \renewenvironment{RTLcases}{%
25927     \bidi@matrix@check\RTLcases\env@RTLcases
25928 }{%
25929     \endbidi@tabular@RTLcases%
25930 }
25931 \def\env@RTLcases{%
25932     \let\@ifnextchar\bidi@new@ifnextchar
25933     \def\arraystretch{1.2}%
25934     \bidi@tabular@RTLcases{@{}r@{\quad}r@{}}%
25935 }
25936 \def\SepMark#1{\gdef\@SepMark{#1}}
25937 \SepMark{.}
25938 \def\@thmcountersep{\@SepMark}
25939 \def\setRTLbibitems{\@RTLbibitemstrue\@LTRbibitemsfalse}
25940 \def\setLTRbibitems{\@LTRbibitemstrue\@RTLbibitemsfalse}
25941 \def\setdefaultbibitems{\@RTLbibitemsfalse\@LTRbibitemsfalse}
25942 \newcommand*{\bidi@thebibliography@font@hook}{\}
25943 \def\list#1#2{%
25944     \ifnum \@listdepth >5\relax
25945         \@toodeep
25946     \else
25947         \global\advance\@listdepth\@ne
25948     \fi
25949     \rightmargin\z@
25950     \listparindent\z@
25951     \itemindent\z@
25952     \csname @list\romannumeral\the\@listdepth\endcsname
25953     \def\@itemlabel{#1}%
25954     \let\makelabel\@mklab
25955     \@nmbrrlistfalse
25956     #2\relax
25957     \@trivlist
25958     \parskip\parsep
25959     \parindent\listparindent
25960     \advance\linewidth -\rightmargin
25961     \advance\linewidth -\leftmargin
25962     \if@bidi@list@minipage@parbox
25963     \if@RTL
25964         \advance\@totalleftmargin \leftmargin
25965     \else
25966         \advance\@totalleftmargin \rightmargin
25967     \fi
25968     \else
25969         \if@hboxRconstruct
25970         \if@bidi@list@minipage@parbox@not@nob
25971         \if@RTL
25972             \advance\@totalleftmargin \rightmargin
25973         \else
25974             \advance\@totalleftmargin \leftmargin

```



```

25975 \fi
25976 \else
25977 \if@RTL
25978 \advance\@totalleftmargin \leftmargin
25979 \else
25980 \advance\@totalleftmargin \rightmargin
25981 \fi\fi
25982 \else
25983 \if@RTL
25984 \advance\@totalleftmargin \rightmargin
25985 \else
25986 \advance\@totalleftmargin \leftmargin
25987 \fi\fi\fi
25988 \parshape \@ne \@totalleftmargin \linewidth
25989 \ignorespaces}
25990 \long\def\@iiparbox#1#2[#3]#4#5{%
25991 \leavevmode
25992 \@pboxswfalse
25993 \if@hboxRconstruct
25994 \@bidi@list@minipage@parbox@not@nobtrue
25995 \fi
25996 \if@RTL
25997 \ifx#1t%
25998 \@bidi@list@minipage@parboxtrue
25999 \else
26000 \ifx#1b%
26001 \@bidi@list@minipage@parboxtrue
26002 \fi
26003 \fi
26004 \fi
26005 \setlength\@tempdima{#4}%
26006 \@begin@tempboxa\vbox{\hsize\@tempdima\@parboxrestore#5\@par}%
26007 \ifx\relax#2\else
26008 \setlength\@tempdimb{#2}%
26009 \edef\@parboxto{to\the\@tempdimb}%
26010 \fi
26011 \if#1b\vbox
26012 \else\if #1t\top
26013 \else\ifmmode\vcenter
26014 \else\@pboxswtrue $\vcenter
26015 \fi\fi\fi
26016 \@parboxto{\let\hss\vss\let\unhbox\unvbox
26017 \csname bm@#3\endcsname}%
26018 \if@pboxsw \m@th$\fi
26019 \@end@tempboxa}
26020 \newenvironment{LTRitems}
26021 {\par\@RTLfalse\@RTLtabfalse\@bidi@beamer@ragged
26022 \if@bidi@list@minipage@parbox
26023 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
26024 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26025 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
26026 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26027 \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26028 \ignorespaces}{\vskip\z@}

```




```

26029 \newenvironment{RTLitems}
26030     {\par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
26031      \if@bidi@list@minipage@parbox
26032      \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
26033      \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26034      \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
26035      \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26036      \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26037      \ignorespaces}{\vskip\z@}
26038 \newenvironment{LTRbibitems}
26039     {\par\@RTLfalse\@RTLtabfalse\@bidi@beamer@ragged
26040      \if@bidi@list@minipage@parbox
26041      \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
26042      \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26043      \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
26044      \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26045      \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26046      \ignorespaces}{\vskip\z@}
26047 \newenvironment{RTLbibitems}
26048     {\par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
26049      \if@bidi@list@minipage@parbox
26050      \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
26051      \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26052      \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
26053      \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26054      \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26055      \ignorespaces}{\vskip\z@}
26056 \def\raggedright{%
26057   \let\\\@centercr\@rightskip\@flushglue \rightskip\@rightskip
26058   \leftskip\z@skip
26059   \parindent\z@\parfillskip\z@skip}
26060 \let\bidi@orig@raggedleft\raggedleft
26061 \let\bidi@orig@raggedright\raggedright
26062 \renewcommand\raggedleft{\if@bidi@list@minipage@parbox\bidi@orig@raggedright\else\if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob\else\bidi@orig@raggedleft\fi}
26063 \renewcommand\raggedright{\if@bidi@list@minipage@parbox\bidi@orig@raggedleft\else\if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob\else\bidi@orig@raggedright\fi}
26064 \newcommand{\bidi@raggedright}{\if@RTL\raggedleft\else\raggedright\fi}
26065 \newcommand{\bidi@raggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
26066 \DeclareRobustCommand\centerline[1]{%
26067   \if@RTL\@@line{\hss\beginR#1\endR\hss}
26068   \else\@@line{\hss#1\hss}\fi}
26069 \def\bidi@orig@leftline#1{%
26070   \if@RTL\@@line{\beginR#1\endR\hss}
26071   \else\@@line{#1\hss}\fi}
26072 \def\bidi@orig@rightline#1{%
26073   \if@RTL\@@line{\hss\beginR#1\endR}
26074   \else\@@line{\hss#1}\fi}
26075 \DeclareRobustCommand\leftline[1]{\ifhmode\if@RTL\bidi@orig@rightline{#1}\else\bidi@orig@leftline{#1}\fi}
26076 \DeclareRobustCommand\rightline[1]{\ifhmode\if@RTL\bidi@orig@leftline{#1}\else\bidi@orig@rightline{#1}\fi}
26077 \DeclareRobustCommand\bidirlap[1]{\hbext@z@{\if@RTL\hss\fi#1\if@RTL\else\hss\fi}}
26078 \DeclareRobustCommand\bidillap[1]{\hbext@z@{\if@RTL\else\hss\fi#1\if@RTL\hss\fi}}
26079 \def\@hangfrom#1{\setbox\@tempboxa\hbox{\{#1\}}%
26080   \hangindent \if@RTL-\else\fi\wd\@tempboxa\noindent\box\@tempboxa}
26081 \def\narrower{%
26082   \advance\if@RTL\rightskip\else\leftskip\fi\parindent

```



```

26083 \advance\if@RTL\leftskip\else\rightskip\fi\parindent}
26084 \DeclareRobustCommand\underscore[1]{%
26085 \relax
26086 \ifmmode\@@underline{#1}%
26087 \else
26088 \if@RTL $\@@underline{\hbox{\beginR#1\endR}}\m@th$\relax
26089 \else
26090 $\@@underline{\hbox{#1}}\m@th$\relax\fi\fi}
26091 \if@compatibility
26092 \let\undertext=\underline
26093 \fi
26094 \def\@tabular{%
26095 \leavevmode \hbox \bgroup \if@RTLtab\beginR \fi
26096 $\let\@acol\@tabacol
26097 \let\@classz\@tabclassz
26098 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
26099 \def\endtabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
26100 \egroup $\if@RTLtab\endR\fi\egroup}
26101 \expandafter \let \csname endtabular*\endcsname = \endtabular
26102 \def\@array[#1]#2{%
26103 \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
26104 \bgroup
26105 \setbox\@arstrutbox\hbox{%
26106 \vrule \@height\arraystretch\ht\strutbox
26107 \@depth\arraystretch \dp\strutbox
26108 \@width\z@}%
26109 \mkpream{#2}%
26110 \edef\@preamble{%
26111 \ialign \noexpand\@halignto
26112 \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
26113 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
26114 \let\@tabularnewline\\%
26115 \let\par\@empty
26116 \let\@sharp##%
26117 \set@typeset@protect
26118 \lineskip\z@skip\baselineskip\z@skip
26119 \ifhmode \@preamerr\z@ \@@par\fi
26120 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
26121 \@preamble}
26122 \def\array{\let\@acol\@arrayacol \let\@classz\@arrayclassz
26123 \let\@classiv\@arrayclassiv
26124 \let\\\@arraycr\let\@halignto\@empty\@RTLtabfalse\@tabarray}
26125 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4 \else
26126 \ifnum \@lastchclass=3 5 \else
26127 \z@ \if #1c\@chnum \z@ \else
26128 \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
26129 \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
26130 \@chclass \if #1|\@ne \else
26131 \if #1@\tw@ \else
26132 \if #1p3 \else \z@ \@preamerr 0\fi
26133 \fi \fi \fi \fi \fi \fi
26134 \fi}
26135 \def\bm@l{\if@RTL\hss\unhbox\@tempboxa\else\unhbox\@tempboxa\hss\fi}
26136 \def\bm@r{\if@RTL\unhbox\@tempboxa\hss\else\hss\unhbox\@tempboxa\fi}

```



```

26137 \def\bm@t{\unhbox\@tempboxa\hss}
26138 \def\bm@b{\hss\unhbox\@tempboxa}
26139 \def\@dottedtocline#1#2#3#4#5{%
26140   \ifnum #1>\c@tocdepth \else
26141     \vskip \z@ \@plus.2\p@
26142     {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocma
26143     \parindent #2\relax\@afterindenttrue
26144     \interlinepenalty\@M
26145     \leavevmode
26146     \@tempdima #3\relax
26147     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
26148     {#4}\nobreak
26149     \leaders\hbox{$\m@th
26150       \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
26151       mu$}\hfill
26152     \nobreak
26153     \hb@xt@\@pnumwidth{{\hfil\normalfont \normalcolor #5}}%
26154     \par}%
26155   \fi}
26156
26157 \newcount\bidicolumn@check@number
26158
26159 \def\bidicolumn@status#1{\gdef\bidicurrent@column@status{#1}}
26160
26161 \def\bidicolumn@set@column@status#1#2{%
26162   \global\expandafter\let\csname #1\endcsname\bidicurrent@column@status}
26163
26164 \if@twocolumn
26165 \newcommand\DetectColumn[3][1]{%
26166   \ifx\bidicolumn@status@write\relax
26167     \PackageError{bidi}%
26168       {Option 'DetectColumn' not selected}%
26169       {\string\DetectColumn\space
26170       requires the use of the 'DetectColumn'
26171       option on the package}%
26172   \fi
26173   \global\advance\bidicolumn@check@number\@ne
26174   \edef\bidicolumn@type{\expandafter\ifx
26175     \csname bidi@column-\the\bidicolumn@check@number\endcsname\relax
26176     \else
26177     \csname bidi@column-\the\bidicolumn@check@number\endcsname
26178     \fi}%
26179   \ifcase \bidicolumn@type\relax
26180     \ifcase #1\or #2\or#3\fi % 0 not known use first column as default
26181   \or
26182     #2% % 1 First column
26183   \or
26184     #3% % 2 Second (Last column)
26185   \else
26186     \ERROR
26187   \fi
26188   \edef\next{\write\@auxout
26189     {\string\bidicolumn@set@column@status{\bidicolumn-\the\bidicolumn@check@number}%
26190     {\bidicolumn@type}}}%

```



```

26191 \next
26192 }
26193
26194 \AtEndDocument{\def\ bidi@set@column@status#1#2{%
26195     \ifnum #2=\bidi@current@column@status\else
26196         \@tempwtrue
26197     \fi}%
26198 }
26199 \fi
26200
26201 \def\RTL@outputdblcol{%
26202     \if@firstcolumn
26203         \global\@firstcolumnfalse
26204         \global\setbox\@leftcolumn\copy\@outputbox
26205         \splitmaxdepth\maxdimen
26206         \vbadness\maxdimen
26207         \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
26208         \setbox\@outputbox\vsplit\@outputbox to\maxdimen
26209         \toks@{\expandafter{\topmark}}%
26210         \xdef\@firstcoltopmark{\the\toks@}%
26211         \toks@{\expandafter{\splitfirstmark}}%
26212         \xdef\@firstcolfirstmark{\the\toks@}%
26213         \ifx\@firstcolfirstmark\@empty
26214             \global\let\@setmarks\relax
26215         \else
26216             \gdef\@setmarks{%
26217                 \let\firstmark\@firstcolfirstmark
26218                 \let\topmark\@firstcoltopmark}%
26219         \fi
26220     \else
26221         \global\@firstcolumntrue
26222         \setbox\@outputbox\vbox{%
26223             \hb@xt@\textwidth{%
26224                 \hskip \columnwidth
26225                 \hfil
26226                 {\normalcolor\vrule \@width\columnseprule}%
26227                 \hfil
26228                 \hb@xt@\columnwidth{%
26229                     \bidi@firstcolumn@status@write%
26230                     \box\@leftcolumn \hss}%
26231                 \hskip -\textwidth
26232                 \hb@xt@\columnwidth{%
26233                     \bidi@lastcolumn@status@write%
26234                     \box\@outputbox \hss}%
26235                 \hskip \columnsep
26236                 \hskip \columnwidth }}%
26237         \@combinedblfloats
26238         \@setmarks
26239         \@outputpage
26240         \begingroup
26241             \@dblfloatplacement
26242             \@startdblcolumn
26243             \@whiles\if@fcolmade \fi{\@outputpage
26244                 \@startdblcolumn}%

```



```

26245 \endgroup
26246 \fi}%
26247
26248 \def\LTR@outputdblcol{%
26249 \if@firstcolumn
26250 \global\@firstcolumnfalse
26251 \global\setbox\@leftcolumn\copy\@outputbox
26252 \splitmaxdepth\maxdimen
26253 \vbadness\maxdimen
26254 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
26255 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
26256 \toks@\expandafter{\topmark}%
26257 \xdef\@firstcoltopmark{\the\toks@}%
26258 \toks@\expandafter{\splitfirstmark}%
26259 \xdef\@firstcolfirstmark{\the\toks@}%
26260 \ifx\@firstcolfirstmark\@empty
26261 \global\let\@setmarks\relax
26262 \else
26263 \gdef\@setmarks{%
26264 \let\firstmark\@firstcolfirstmark
26265 \let\topmark\@firstcoltopmark}%
26266 \fi
26267 \else
26268 \global\@firstcolumntrue
26269 \setbox\@outputbox\vbox{%
26270 \hb@xt@\textwidth{%
26271 \hb@xt@\columnwidth{%
26272 \bidi@firstcolumn@status@write%
26273 \box\@leftcolumn \hss}%
26274 \hfil
26275 {\normalcolor\vrule \@width\columnseprule}%
26276 \hfil
26277 \hb@xt@\columnwidth{%
26278 \bidi@lastcolumn@status@write%
26279 \box\@outputbox \hss}}}%
26280 \@combinedblfloats
26281 \@setmarks
26282 \@outputpage
26283 \begingroup
26284 \@dblfloatplacement
26285 \@startdblcolumn
26286 \@whiles\if@fcolmade \fi{\@outputpage
26287 \@startdblcolumn}%
26288 \endgroup
26289 \fi}%
26290
26291
26292 \renewcommand{\@outputdblcol}{\if@RTLmain\RTL@outputdblcol\else\LTR@outputdblcol\fi}
26293 \newcommand{\RTLdblcol}{\renewcommand{\@outputdblcol}{\RTL@outputdblcol}}
26294 \newcommand{\LTRdblcol}{\renewcommand{\@outputdblcol}{\LTR@outputdblcol}}
26295
26296 \bidi@patchcmd\@makecol{%
26297 \ifvoid\footins
26298 \setbox\@outputbox \box\@cclv

```



```

26299 \else
26300 \setbox\@outputbox \vbox {%
26301 \boxmaxdepth \@maxdepth
26302 \unvbox \@cclv
26303 \vskip \skip\footins
26304 \color@begingroup
26305 \normalcolor
26306 \footnoterule
26307 \unvbox \footins
26308 \color@endgroup
26309 }%
26310 \fi
26311 }{%
26312 \ifvoid\footins
26313 \ifvoid\@bidi@copyins@
26314 \setbox\@outputbox \box\@cclv
26315 \else
26316 \setbox\@outputbox \vbox {%
26317 \boxmaxdepth \@maxdepth
26318 \unvbox \@cclv
26319 \vskip \skip\@bidi@copyins@
26320 \color@begingroup
26321 \normalcolor
26322 \unvbox \@bidi@copyins@
26323 \color@endgroup
26324 }%
26325 \fi
26326 \else
26327 \setbox\@outputbox \vbox {%
26328 \boxmaxdepth \@maxdepth
26329 \unvbox \@cclv
26330 \vskip \skip\footins
26331 \color@begingroup
26332 \normalcolor
26333 \footnoterule
26334 \unvbox \footins
26335 \color@endgroup
26336 \ifvoid\@bidi@copyins@
26337 \else
26338 \vskip \skip\@bidi@copyins@
26339 \color@begingroup
26340 \normalcolor
26341 \unvbox \@bidi@copyins@
26342 \color@endgroup
26343 \fi
26344 }%
26345 \fi
26346 }{}{}
26347
26348 \def\LTRmarginpar{%
26349 \ifhmode
26350 \@bsphack
26351 \@floatpenalty -\@Mii
26352 \else

```



```

26353 \floatpenalty-\@Miii
26354 \fi
26355 \ifinner
26356 \@parmoderr
26357 \floatpenalty\z@
26358 \else
26359 \@next\@currbox\@freelist{}\{}%
26360 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
26361 {\floatpenalty\z@
26362 \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
26363 \fi
26364 \@ifnextchar [\@LTRxmpar\@LTRympar}
26365 \long\def\@LTRxmpar[#1]#2{%
26366 \@LTRsavemarbox\@marbox{#1}%
26367 \@LTRsavemarbox\@currbox{#2}%
26368 \@xympar}
26369 \long\def\@LTRympar#1{%
26370 \@LTRsavemarbox\@marbox{#1}%
26371 \global\setbox\@currbox\copy\@marbox
26372 \@xympar}
26373 \long\def \@LTRsavemarbox #1#2{%
26374 \global\setbox #1%
26375 \color@vbox
26376 \vtop{%
26377 \hsize\marginparwidth
26378 \@parboxrestore
26379 \@LTRmarginparreset
26380 #2%
26381 \@minipagefalse
26382 \outer@nobreak
26383 }%
26384 \color@endbox
26385 }
26386 \def \@LTRmarginparreset {%
26387 \reset@font
26388 \normalsize
26389 \@minipagetrue
26390 \everypar{\@minipagefalse\everypar{}\beginL}%
26391 }
26392 \def\RTLmarginpar{%
26393 \ifhmode
26394 \@bsphack
26395 \floatpenalty -\@Mii
26396 \else
26397 \floatpenalty-\@Miii
26398 \fi
26399 \ifinner
26400 \@parmoderr
26401 \floatpenalty\z@
26402 \else
26403 \@next\@currbox\@freelist{}\{}%
26404 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
26405 {\floatpenalty\z@
26406 \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%

```



```

26407 \fi
26408 \@ifnextchar [\@RTLxmpar\@RTLympar}
26409 \long\def\@RTLxmpar[#1]#2{%
26410 \@RTLSavemarbox\@marbox{#1}%
26411 \@RTLSavemarbox\@currbox{#2}%
26412 \@xympar}
26413 \long\def\@RTLympar#1{%
26414 \@RTLSavemarbox\@marbox{#1}%
26415 \global\setbox\@currbox\copy\@marbox
26416 \@xympar}
26417 \long\def \@RTLSavemarbox #1#2{%
26418 \global\setbox #1%
26419 \color@vbox
26420 \vtop{%
26421 \hsize\marginparwidth
26422 \@parboxrestore
26423 \@RTLMarginparreset
26424 #2%
26425 \@minipagefalse
26426 \outer@nobreak
26427 }%
26428 \color@endbox
26429 }
26430 \def \@RTLMarginparreset {%
26431 \reset@font
26432 \normalsize
26433 \@minipagetrue
26434 \everypar{\@minipagefalse\everypar{}\beginR}%
26435 }
26436 \def\@addmarginpar{\@next\@marbox\@currlist{\@cons\@freelist\@marbox
26437 \@cons\@freelist\@currbox}\@latexbug\@tempcnta\@ne
26438 \if@twocolumn
26439 \if@firstcolumn \@tempcnta\m@ne \fi
26440 \else
26441 \if@mparswitch
26442 \ifodd\c@page \else\@tempcnta\m@ne \fi
26443 \fi
26444 \if@reversemargin \@tempcnta -\@tempcnta \fi
26445 \fi
26446 \ifnum\@tempcnta <\z@ \global\setbox\@marbox\box\@currbox \fi
26447 \@tempdima\@mparbottom
26448 \advance\@tempdima -\@pageht
26449 \advance\@tempdima\ht\@marbox
26450 \ifdim\@tempdima >\z@
26451 \@latex@warning@no@line {Marginpar on page \thepage\space moved}%
26452 \else
26453 \@tempdima\z@
26454 \fi
26455 \global\@mparbottom\@pageht
26456 \global\advance\@mparbottom\@tempdima
26457 \global\advance\@mparbottom\dp\@marbox
26458 \global\advance\@mparbottom\marginparpush
26459 \advance\@tempdima -\ht\@marbox
26460 \global\setbox \@marbox

```




```

26461             \vbox {\vskip \@tempdima
26462                     \box \@marbox}%
26463     \global \ht\@marbox \z@
26464     \global \dp\@marbox \z@
26465     \kern -\@pagedp
26466     \nointerlineskip
26467     \hb@xt@\columnwidth
26468       {\if@RTL\if@LTRmarginpar\beginL\else\beginR\fi\else\if@RTLmarginpar\beginR\else\beginL
26469         \hskip\columnwidth \hskip\marginparsep
26470         \else
26471           \hskip -\marginparsep \hskip -\marginparwidth
26472         \fi
26473         \box\@marbox \hss\if@RTL\if@LTRmarginpar\endL\else\endR\fi\else\if@RTLmarginpar\endR
26474         \nointerlineskip
26475         \hbox{\vrule \height\z@ \width\z@ \depth\@pagedp}}
26476 \long\def\@ympar#1{%
26477   \@savemarbox\@marbox{\if@RTL\if@LTRmarginpar\@RTLfalse\else\@RTLtrue\fi\else\if@RTLmarginp
26478   \global\setbox\@currbox\copy\@marbox
26479   \@xympar}
26480 \def\setRTLmarginpar{\@RTLmarginpartrue\@LTRmarginparfalse}
26481 \def\setLTRmarginpar{\@LTRmarginpartrue\@RTLmarginparfalse}
26482 \def\setdefaultmarginpar{\@RTLmarginparfalse\@LTRmarginparfalse}
26483 \def\@stopline{\unskip\@stopfield\if@rjfield \global\@rjfieldfalse
26484   \@tempdima\@totalleftmargin \advance\@tempdima\linewidth
26485   \hbox to\@tempdima{\if@RTL\beginR\fi\@itemfudge\hskip\dimen\@curtabmar
26486     \box\@curline\hfil\box\@curfield\if@RTL\endR\fi}\else\@addfield
26487     \hbox to\linewidth{\if@RTL\beginR\fi\@itemfudge
26488       \hskip\dimen\@curtabmar\box\@curline\hfil\if@RTL\endR\fi}}%
26489 \fi}
26490
26491 \newcommand*{\bidi@font@outputpage}{}
26492
26493 \def\@outputpage{%
26494   \begingroup           % the \endgroup is put in by \aftergroup
26495   \let \protect \noexpand
26496   \@resetactivechars
26497   \global\let\@if@newlist\if@newlist
26498   \global\@newlistfalse
26499   \@parboxrestore
26500   \global\let\bidi@BeforeOutputPageShipOut\@firstofone
26501   \bidi@beforeoutputpageshipouthook
26502   \shipout \vbox{%
26503     \set@typeset@protect
26504     \aftergroup \endgroup
26505     \aftergroup \set@typeset@protect
26506                     % correct? or just restore by ending
26507                     % the group?
26508   \if@specialpage
26509     \global\@specialpagefalse\@nameuse{ps@\@specialstyle}%
26510   \fi
26511   \if@twoside
26512     \ifodd\count\z@ \let\@thehead\@oddhead \let\@thefoot\@oddfoot
26513     \if@RTLmain
26514       \let\@themargin\evensidemargin

```



```

26515         \else
26516             \let\@themargin\oddsidemargin
26517         \fi
26518     \else \let\@thehead\@evenhead \let\@thehead\@evenfoot
26519     \if@RTLmain
26520         \let\@themargin\oddsidemargin
26521     \else
26522         \let\@themargin\evensidemargin
26523     \fi
26524 \fi
26525 \ifx\@thehead\@empty \let\@thehead\hfil \fi
26526 \ifx\@thehead\@empty \let\@thehead\hfil \fi
26527 \else %% not @twoside
26528 \ifx\@oddhead\@empty \let\@thehead\hfil \fi
26529 \ifx\@oddfoot\@empty \let\@thehead\hfil \fi
26530 \fi
26531 \reset@font
26532 \normalsize
26533 \bidi@font@@outputpage
26534 \normalsfcodes
26535 \let\label\@gobble
26536 \let\index\@gobble
26537 \let\glossary\@gobble
26538 \baselineskip\z@skip \lineskip\z@skip \lineskiplimit\z@
26539 \begin@vdi
26540 \vskip \topmargin
26541 \moveright\@themargin \vbox {%
26542     \global\let\bidi@BeforeHeader\@firstofone
26543     \bidi@beforeheaderhook
26544     \setbox\@tempboxa \vbox to\headheight{%
26545         \vfil
26546         \color@hbox
26547         \normalcolor
26548         \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thehead\if@
26549         \color@endbox
26550     }%
26551     \dp\@tempboxa \z@
26552     \box\@tempboxa
26553     \vskip \headsep
26554     \global\let\bidi@BeforeOutputBoxOutputPage\@firstofone
26555     \bidi@beforeoutputboxoutputpagehook
26556     \box\@tempboxa
26557     \global\let\bidi@AfterOutputBoxOutputPage\@firstofone
26558     \bidi@afteroutputboxoutputpagehook
26559     \global\let\bidi@BeforeFooter\@firstofone
26560     \bidi@beforefooterhook
26561     \baselineskip \footskip
26562     \color@hbox
26563     \normalcolor
26564     \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thehead\if@
26565     \color@endbox
26566     \global\let\bidi@AfterFooter\@firstofone
26567     \bidi@afterfooterhook
26568     }%

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26569 }%
26570 \global\let\bid@AfterOutputPageShipOut\@firstofone
26571 \bid@afteroutputpageshipouthook
26572 \global\let\if@newlist\@if@newlist
26573 \global \colht \textheight
26574 \stepcounter{page}%
26575 \let\firstmark\botmark
26576 \global\let\bid@AtEndOutputPage\@firstofone
26577 \bid@atendoutputpagehook
26578 }
26579 \long\def\@makecaption#1#2{%
26580 \vskip\abovecaptionskip
26581 \sbox\@tempboxa{#1: #2}%
26582 \ifdim \wd\@tempboxa >\hsize
26583 \if@RTL\beginR\fi#1: #2\if@RTL\endR\fi\par
26584 \else
26585 \global \@minipagefalse
26586 \hb@xt@\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}%
26587 \fi
26588 \vskip\belowcaptionskip}
26589 \let\bid@saved@eqno=\eqno
26590 \let\bid@saved@leqno=\leqno
26591 \def\eqno{\ifnum\predisplaydirection<\z@ \bid@saved@leqno \else \bid@saved@eqno \fi}
26592 \def\leqno{\ifnum\predisplaydirection<\z@ \bid@saved@eqno \else \bid@saved@leqno \fi}
26593 \ApplyPatchIfPackageLoadedF{amsmath}{
26594 \def\@eqnnum{\normalfont \normalcolor \if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}
26595 }
26596 \input{footnote-xetex-bidi.def}
26597 \if@twocolumn
26598 \let\autofooterule\relax
26599 \let\leftfootnoterule\relax
26600 \let\rightfootnoterule\relax
26601 \textwidthfootnoterule
26602 \fi
26603 \if@bid@csundef{@idxitem}{}{%
26604 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi40\p}%
26605 }
26606
26607 \ApplyPatchToClassesIfPackageLoadedF{%
26608 book, %
26609 report %
26610 }{flowfram}
26611
26612 \ApplyPatchToPackageIfPackageLoadedF{float}{floatrow}
26613
26614 \ApplyPatchToFilesIfPackageLoadedF{amsmath}{%
26615 fleqn, %
26616 leqno%
26617 }[clo]
26618
26619 \ApplyPatchToClasses{%
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26621 amsbook, %
26622 article, %

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26644 }
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26676 beamerouterthemesidebar, %

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26749 tocloft, %
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26751 todonotes, %
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26753 xcolor, %
26754 xltextra %
26755 }
26756
26757 \ApplyPatchToFiles{%
26758   pgfcorescopes.code, %
26759   pstricks %
26760 }[tex]
26761
26762 \ApplyPatchToFile{tc-xetex}
26763

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163 File xltextra-xetex-bidi.def

```

26764 \ProvidesFile{xltextra-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for xltextra package f
26765 \let\@XeTeX\XeTeX
26766 \def\XeTeX{\@ensure@LTR{\@XeTeX}}
26767 \let\@XeLaTeX\XeLaTeX
26768 \def\XeLaTeX{\@ensure@LTR{\@XeLaTeX}}

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