The semantic-markup Package for Meaningful Markup

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The semantic-markup package provides a set of simple commands to allow for semantic markup. The commands are inspired by the XML elements of the Text Encoding Initiative (http://www.tei-c.org). They are intended especially for scholarly writing in the humanities, including about music. The goal is simply to allow scholars to write with attention to meaning and content rather than to formatting.

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1 Package Options

1.1 defaultquotes

The package configures csquotes to place end punctuation inside quotation marks, according to United States usage. Use the defaultquotes package option to restore the default behavior of csquotes.

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1.2 endnotes

The endnotes option converts footnotes to endnotes, including footnotes created with this package's Footnote environment. On its own, this option loads the endnotes package and does everything necessary for endnotes. You can define the following commands to adjust the behavior:

Command	Default value
\DoBeforeEndnotes	\clearpage
\EndnoteFont	Empty (normal font)

If you want to setup the endnotes in a completely different way or avoid conflicts with another package, you can do \renewcommand{\SetupEndnotes}{} to eliminate all of this or you can renew the command to do something else.

2 Semantic Commands Defined Without Arguments

The following commands are defined (using xparse) as aliases to standard IAT_EX commands or \textquote from the csquotes package. In other words, they are not defined with an argument. For example, the command for a technical term, typically set in italics is defined this way:

\NewDocumentCommand{\term}{}{\emph}

To redefine it to be set in bold, for example, you can use the basic ${\rm LAT}_{E}X$ command \renewcommand{\term}{\textbf}.

The \strong command is already defined in the fontspec package; if that package is loaded, this package will not redefine its command.

Package Command	Alias	Use
\quoted	\textquote	Quoted material, taking care of end punctuation: instead of "word," write \quoted {word},
\soCalled	\textquote	Scare quotes
\strong	\textbf	Highlight emphasis just as in HTML
\code	\texttt	Computer code in teletype font (not ver- batim)
\term	\emph	Technical terms, set in italics
\mentioned	\emph	Referring to a word as a word rather than to its meaning, as in philological discussion
\foreign	\emph	Foreign term
\worktitle	\emph	Title of a complete work (of literature art, music), set in italics; use for books journal titles
\parttitle	\textquote	Title of a portion of a work, set in quo tation marks, such as a journal article song on an album

3 Semantic Commands With Arguments

These commands have slightly more complex definitions, but can still be easily redefined. See the **xparse** documentation on the syntax of these commands.

Command	Definition	Usage
\add	One argument: Put square brackets around argument	For editorial additions
\Dots	Put ellipsis in square brack- ets	For editorial omissions fro quotations
\gloss	Two arguments: Put first in italics and second in paren- theses	Use a technical or foreig term and give its definition
\quotedgloss	Two arguments: Put first in quotation marks and second in parentheses	Same as \gloss but usin \quoted for the first arg ment instead of \mentione
/XXX	One optional argument with default value of \add {FIX}	Identify problem spot : draft
\citXXX	One optional argument	Make footnote indicating missing citation; optional a gument may be used for r minder of the citation nan or description

4 Footnote Environment

When writing many long footnotes it can be useful to have an environment for footnotes. Here one is defined using the **environ** package. You still have to escape the end of the line before the footnote begins. Use like so:

Body text.%
\begin{Footnote}
Footnote text.
More footnote text.
\end{Footnote}
Continuation of body text.

5 Musical Symbols

Shorthands are defined for musical accidentals, using IATEX math-mode symbols. These could be redefined to use Unicode symbols if the font contains them, or with commands from the <code>lilyglyphs</code> package. Remember that like all commands without arguments, IATEX will ignore the space after the command-name, so you will need to write <code>\fl{}</code> or <code>\fl</code>. There is also a command for octave numbers, for the system in which middle C begins the fourth octave.

If the musicography package is loaded, it will redefine the commands \fl, \sh, and \na to use nicer symbols from the MusiXTEX fonts.

Command	Alias
\fl	\$\flat\$
\na	\$\natural\$
∖sh	\$\sharp\$
\octave	\textsubscript

For stacked numerals, as in meter signatures or figured bass, we provide two simple options, \musfig using \genfrac from amsmath, and \meter, which uses \Takt from the harmony package, which spaces the numerals more closely. Both commands take two arguments, one for the top numeral and the second for the bottom numeral. You could write, for example:

```
There is a \max\{6--5\} cadential pattern before the shift to \max\{3\} time.
The melody begins on F\.
```

There is a $\frac{6-5}{4-3}$ cadential pattern before the shift to $\frac{3}{4}$ time. The melody begins on F[#]₄.

For more complex notation, such as three-level numerals, or stacked figuredbass symbols with accidentals or slashes, you will have to devise your own solution.

6 Code

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{semantic-markup}[2018/05/21
  Macros for TEI-like semantic markup]
% Copyright 2018 Andrew A. Cashner, andrewacashner@gmail.com
% This work may be distributed and/or modified under the
% conditions of the LaTeX Project Public License, either
% version 1.3 of this license or (at your option) any
% later version.
% The latest version of this license is in
%
    http://www.latex-project.org/lppl.txt
% and version 1.3 or later is part of all distributions
% of LaTeX version 2005/12/01 or later.
%
% This work has the LPPL maintenance status 'maintained'.
% The Current Maintainer of this work is Andrew A. Cashner.
% This work consists of the package file semantic-markup.sty
% and the documentation file semantic-markup.tex.
% CHANGE LOG
% 2018-05-21 - Use fontspec's definition of '\strong' if it is loaded
            - Use musicography's definition of '\fl', '\sh', '\na' commands if
%
               it is loaded
%
%
             - '\wtitle' and '\ptitle' shorthands added
%
            - Customizable commands added for endnotes option
%
\% 2016-09-22 - 'endnotes' option added
% 2016-09-01 - First version on CTAN
\% Option to use csquotes default behavior instead of the
% US localized punctuation used in this package
\newif\ifdefaultquotes
\defaultquotesfalse
\DeclareOption{defaultquotes}{\defaultquotestrue}
\% Option to convert footnotes to endnotes, include
% Footnote environment
\newif\ifendnotes
\endnotesfalse
\DeclareOption{endnotes}{\endnotestrue}
\ProcessOptions\relax
```

```
\RequirePackage{xparse}
\RequirePackage{csquotes}
\ifdefaultquotes\else
 \% Put end punctuation inside quotation marks
 % for the specified marks
 \DeclareAutoPunct{.,!?}
\fi
% NB: fontspec defines its own \strong command, so only define this if fontspec
% not loaded
\@ifpackageloaded{fontspec}{}{%
    \NewDocumentCommand{\strong}{}
    {\textbf}
}
\NewDocumentCommand{\quoted}{}
{\textquote}
\NewDocumentCommand{\soCalled}{}
{\textquote}
\NewDocumentCommand{\code}{}
{\texttt}
\NewDocumentCommand{\term}{}
\{\mathbb\}
\NewDocumentCommand{\mentioned}{}
\{\mathbb\}
\NewDocumentCommand{\foreign}{}
\{\mathbb\}
\NewDocumentCommand{\worktitle}{}
\{\mathbb\}
\NewDocumentCommand{\parttitle}{}
{\textquote}
\% Shorter versions of these frequently used commands
\NewDocumentCommand{\wtitle}{}{\worktitle}
\NewDocumentCommand{\ptitle}{}{\parttitle}
% editorial addition
\NewDocumentCommand{\add}{ m }
{[#1]}
% editorial ellipsis
```

```
\NewDocumentCommand{\Dots}{}{\add{\dots}}
```

```
% explanatory gloss of technical or foreign term
\NewDocumentCommand{\gloss}{ m m }{%
  \mathbb{1}  (#2)%
}
% explanatory gloss of word in quotation marks
\NewDocumentCommand{\quotedgloss}{ m m }{%
  \quoted{#1} (#2)%
}
%************
% Identify problem spot in draft
\NewDocumentCommand{\XXX}{ O{\add{FIX}} }{%
  \strong{#1}%
}
% Indicate citation to be filled in later
% Optional argument for indicating the source
\NewDocumentCommand{\citXXX}{ o }{%
    \footnote{\strong{\add{Citation needed}\IfValueTF{#1}{#1}}}%
}
%********
% Footnote as environment
\RequirePackage{environ}
\NewEnviron{Footnote}{\footnote{\BODY}}[]
%*************
% Endnotes, if desired
\ifendnotes
    \RequirePackage{endnotes}
   \% Customize these commands with \renewcommand
    \NewDocumentCommand{\DoBeforeEndnotes}{}{\clearpage}
    \NewDocumentCommand{\EndnoteFont}{}{}
   % Optionally remove this (\renewcommand{\MakeEndnotes}{})
   % to avoid conflicts with endnotes or other packages
    \NewDocumentCommand{\SetupEndnotes}{}{%
      \let\footnote=\endnote
      \AtEndDocument{\DoBeforeEndnotes{\EndnoteFont\theendnotes}}%
    }
    \AtBeginDocument{%
        \SetupEndnotes{}%
       % Footnote environment adjusted to fix expansion problem
        \RenewEnviron{Footnote}{\expandafter\footnote\expandafter{\BODY}}[]%
```

```
7
```

```
}%
\fi
%**************
% MUSIC SYMBOLS
% Accidentals using LaTeX symbols
\% Use better definitions from musicography if it was loaded first
\@ifpackageloaded{musicography}{}{%
   \NewDocumentCommand{\fl}{}{$\flat$}
   \NewDocumentCommand{\na}{}{$\natural$}
   \NewDocumentCommand{\sh}{}{$\sharp$}
}
% Octave subscripts
\NewDocumentCommand{\octave}{ }{\textsubscript}
% Music figures
\RequirePackage{amsmath}
\NewDocumentCommand{\musfig}{ m m }{%
 \left[ \frac{1}{1} \right] 
}
% Meter signatures
\RequirePackage[rm] {harmony}
\NewDocumentCommand{\meter}{ m m }{\Takt{#1}{#2}}
```

\endinput