

A Bibliography of Publications about the *Java Programming Language*, 2010–2019

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Abstract

[WZK⁺19].

This bibliography records books about the Java Programming Language and related software.

/multi [Taf13]. **/multi-threaded** [Taf13].
'12 [Hol12]. **12th** [Fox17a].

Title word cross-reference

2 [HD17]. **2002** [FLL⁺13]. **2003** [BCR13].
2008 [HGCA11]. **2012** [HTW14, Hol12].
2015 [LSBV17]. **27th** [KP15].

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[DiP18b, FLZ⁺18, GBC12, JEC⁺12, ZXL16].
\$39.95 [Ano18]. 4 + 1 [SRB18]. *TP* [LTK17].
C_p [AÖ11]. *K*
[PLL⁺18, SS19, SD16b, SGG⁺17]. *N*
[ADJG19, WZK⁺19]. *Z_p* [AÖ11].

5 [Dan18, KHR11].

6 [Jen12].

7 [Ano15, EV13, J⁺12]. **75** [HWM11].

-core [PLL⁺18]. **-Means** [SS19]. **-overlap**
[ADJG19]. **-safety** [SD16b]. **-Tier**

8 [BKP16, CWGA17, LYBB14, SAdB⁺16,
UFM15].

9 [Bla18, LSBV17]. **938** [Gun14]. **978** [Ano15]. **978-1-4493-1103-2** [Bro12]. **978-1-4919-4946-7** [Ano15]. **978-1-68050-288-6** [Ano18]. **9th** [Gve13].

Abbreviated [SRTR17]. **ABS** [SAdB+16]. **absence** [AGH+17]. **Abstract** [AGR12, BDT10, DLR16, KPP12, XMA+14, DLM10, DLR14, FSC+13, KMMV14, NSDD17, SSK13]. **Abstraction** [BW12, Bro12, GY16, SKKR11, PL12, ZMG+14, ZFK+16]. **Abstractions** [NYCS12, RFBJ14, UR15, SPP+10]. **accelerated** [PQTGS17]. **Accelerating** [KMZN16, ZLBF14, Cha18]. **Accelerator** [MAK19, OIA+13]. **accelerators** [PWA13]. **Access** [CSGT17, HBT12, TT11, TNTN12, BP19, BB17, KT14, MHM10, RHN+13, XHH12]. **Accessibility** [STST12, VBMDP16]. **Acculock** [XXZ13]. **accuracy** [MDHS10]. **Accurate** [Jaf13, RRB17, XXCL19, ZBB15, XXZ13]. **ACDC** [AHK+15]. **ACDC-JS** [AHK+15]. **across** [DD13, DFR13, HLSK13]. **action** [KB17, UFM15]. **Actions** [RK19, MTS16]. **Active** [BSAL18, YMHB19]. **Actor** [RCB17]. **actors** [PGA18, Sub11]. **Ada** [Car11, Sch10a, WCB16]. **adaptable** [ADI13]. **adaptation** [VBAM10a]. **Adapter** [SK12]. **Adaptive** [AFG+11, IHWN12, NFV15, RXK+17, YPMM12, CL17, PKO+15, PDPM+16, SEPV19, VBAM10b]. **add** [DLM10]. **adding** [MZC10a]. **Addition** [RK19]. **addressing** [GD10, VBMDP16]. **Adequacy** [PSJ18]. **Adequate** [GGZ+15]. **ADiJaC** [SD16a]. **Admitted** [YXS+19]. **Adoption** [PBMH13, PGA18]. **Adriaan** [Ngo12]. **Advanced** [Hor11, VBAM10a, dJM18, Jen12]. **Advances** [FHP+12]. **Adversarial** [FF10]. **Aegis** [Nil12a]. **Æminium** [SNS+14]. **affects** [LO15]. **affordable** [BM14]. **Agent** [AFGG11, PE11, RVP11, Den18].

Agent-Based [PE11]. **agent-oriented** [RVP11]. **aggregates** [BCR11]. **Agility** [Bro12]. **Ahead** [BLH12, JMB12, PKPM19]. **Ahead-of-Time** [JMB12, PKPM19]. **Aided** [KP15]. **air** [OD18, PPS16]. **Ajax** [MvDL12]. **Ajax-Based** [MvDL12]. **algebraic** [Lei17]. **algebras** [IvdS16, ZCdSOvdS15]. **Algorithm** [JJCO19, YCYC12, ZW13, MT13, MLM17, Por18, Gun14]. **Algorithmic** [FHP+12]. **Algorithms** [BF18, GT10b, Gra15]. **Aliasing** [NS12]. **Alignment** [NBB18]. **alike** [DAA13]. **All-in-one** [SV18]. **Allocation** [CPST14, WZK+19, YPMM12, CPST15, OOK+10]. **allocation-site-based** [CPST15]. **Almost** [NWB+15, SC16]. **alternatives** [SHU16]. **Alting** [WBM+10]. **always** [AJL16]. **Analyses** [Kri12, TN19, CDBD18, HB13, KMZN16, PMP+16, ZMG+14]. **Analysis** [ADJG19, AGM+17, Bul18, CPV15, Hol12, JJCO19, KCD12, LHR19, MvDL12, NS12, RDCP12, RRB19, RPP19, SGD15, SW12, SDC+12, SLES15, SLE+17, SR17, VP16, ZKB+16, AM14, Bra14, CFH+13, CDMR19, DHS15, GYB+11, HCN14, HWLM11, KSW+14, KT14, KvGS+14, KPP+18, KRR19, LSBV16, LSBV17, LT14, LTMS18, LX19, MTL15, MKZ+14, MCC17, MB12, NSDD17, NS13, PIR17, PLR18, Puf13, RLBV10, RRB17, SPPH10, SMSB11, SBK13, SP10b, SNCM19, TLX17, TWX+10, TLMM13, TL17, TPG15, WA19, ZMNY14, ZWSS15, CH17]. **Analytics** [BBB+17, KB17, STCG13]. **Analyzer** [Spo16, Fer13, GN16, SMP10]. **Analyzing** [PLL+18, ZDK+19, BTR+13, PSNS14]. **Android** [CNS13, MMP+12, STY+14, THC+14, ZHL+12, ZKB+16, vdMvdMV12]. **AngularJS** [RVT18]. **Ann** [CSdL16]. **annotated** [TJLL18]. **annotation** [CV14, KATS12]. **annotation-based** [KATS12]. **annotations** [CSdL16, GBS14, MGS19]. **announcement**

[SPAK10]. **anomalies** [FRM⁺15]. **answering** [KM10]. **any** [FIF⁺15]. **anytime** [STCG13]. **anywhere** [STCG13]. **AOP** [WAB⁺11]. **AOT** [Ser18, WKJ17]. **Apache** [CJ17, FRM⁺15]. **apart** [LBF12]. **API** [FH16, MPM⁺15, PTRV18, TWNH12, WA19, YKSL17]. **APIs** [HBS16, RDP16, Sam12, SRB18, VM10]. **app** [Ngo12, Sta10]. **Apple** [Ano13]. **Application** [BH12, CCA⁺12, KF11, KB11, LZ12, RDCP12, RLMM15, SWF12, WZK⁺19, AYZI10, AAB⁺10, AÖ11, CNRG19, Del13, FRGPLF⁺12, HWLM11, LBF12, OUY⁺13, SE12, WA19, WSH⁺19, WAB⁺11, XHH12, HD17]. **Application-Aware** [LZ12]. **Application-Replay** [BH12]. **Applications** [GMPS12, GD12, MAHK16, MGI14, MvDL12, MMP15, NKH16, NWB⁺15, OwKPM15, RPP19, SLES15, VP16, WBA⁺11, AMT17, AST⁺16, AC16, AMWW15, ADI13, ABFM12, DSEE13, BOF17, BFS⁺18, BBXC13, EABVGV14, GMC⁺13, HLO15, JH11, MTL15, MZC10a, MZC10b, PLR14, PKC⁺13, RHSD15, R⁺13, RVP11, RW17, Ryu16, Sch10b, SAdB⁺16, SGV12, SPP⁺10, TWX⁺10, VB18, WHIN11, XGD⁺19, vdMvdMV12]. **applying** [CMM17]. **Approach** [BDT10, CSF⁺16, DLPT14, KKW14, LYM⁺18, STST12, ADI13, FGB⁺19, CHM13, CSKB12, DHM⁺12, HLO15, HdM17, J⁺12, MZC10a, MvH15, PSW11, RVP11, RO12, SEPV19, SNS⁺14, YSCX17]. **approachable** [WHV⁺13]. **approaches** [CDMR19, GD10, MD15, SS14]. **approximate** [CNS13]. **Approximation** [RvB14]. **Approximations** [SS12]. **apps** [BM18, CNS13, MMP⁺12, Ngo12, Sta10]. **Architectural** [CSGT17, KKK⁺17, Cha18]. **Architecture** [GMPS12, Wan11, XXCL19, AMWW15, Del13, Gon11]. **Architectures** [KKK⁺17, RKN⁺18, ABCR10, Hos12, MS10, ZP14]. **arena** [TRE⁺13]. **arithmetic** [TGZ17]. **Arm** [DiP18b]. **Arquillian** [Ame13]. **array** [SV15b]. **arrays** [FBH17, SBF⁺10]. **arrows** [FZ17]. **art** [Lew13]. **ASM** [AGR17]. **Aspect** [ABMV12, BH10, VBAM10b, VBMA11, WBA⁺11]. **Aspect-Oriented** [ABMV12, BH10, VBAM10b, WBA⁺11]. **Aspectizing** [TNTN12]. **AspectJ** [AC10]. **aspects** [LVG10]. **Assertion** [MM12]. **Assertion-Based** [MM12]. **Assertional** [LL15]. **assertions** [VYY10]. **Assessing** [GTSS11, PSJ18, VBZ⁺18, JACS10]. **assessment** [IS18]. **assignment** [KT15]. **AST** [DRN14, HWW⁺15, ZLBF14]. **asymmetric** [CBGM12]. **asymptotic** [ODL15]. **Asynchronous** [KW11, SK12, WK12, AZMT18, FZ17, KW10, LML17]. **atomic** [WAB⁺11]. **Atomicity** [GGRSY17, JLP⁺14, BHSB14, BNS12, GGRSY15, UMP10]. **atomics** [PPS16]. **Attack** [BH12]. **Attacks** [MSSK16, SBE⁺19, VS11]. **attribute** [SHU16]. **attributes** [GD10]. **augmentation** [DAA13]. **Augmenting** [ZYY⁺19]. **authentication** [XHH12]. **authorship** [FMS⁺11]. **auto** [SKBL11]. **auto-tuning** [SKBL11]. **AutoFix** [YSCX17]. **automata** [LKP19, TLX17, ZWZ⁺14]. **Automated** [BH17, BSOG12, BMOG12, MS14, RGEV11, SDM12, TJLL18, UPR⁺18, ASdMGM14, MRMV12, YSCX17, ZFK⁺16]. **Automatic** [GGRSY14, GGRSY15, GGRSY17, IS18, KKW11, LXP18, MDS⁺17, MM16, PQD12, PBM⁺19, RK19, SZ11, SD16a, SJPS10, SS16, WM10, XMD⁺17, ZLNP18, ABK⁺16, FM13, PG12]. **automatically** [TB14, VB18]. **Automating** [YXS⁺19]. **Autonomic** [DLPT14, SEK⁺19]. **Autonomous** [GMPS12]. **average** [LDL14]. **avoid** [XR10]. **Avoiding** [FRC⁺17, ZBB17, OD18]. **avoids** [PPS16]. **Aware** [JYKS12, LZ12, BBXC13, CL17, EQT10, SSB⁺14a, SZZ⁺19, SGV12].

awareness [VGS14]. **axiomatic** [TVD10].

B [DLZ+13]. **back** [Car11]. **Background** [PWSG17, PWSG19]. **Backstage** [PS11]. **Bad** [dGRdB+15]. **baggage** [KFB+12]. **balances** [FMBH15]. **balancing** [PDPM+16]. **Ball** [DD13]. **Bar** [WCG+18]. **Barrier** [CHMY19, CHMY15, VB14a]. **barriers** [HJH10, WBM+10]. **Based** [AFGG11, DLR16, GM12, GGZ+15, GGC18, LTD+12, MvDL12, MM12, PTML11, PiLCH11, PE11, RBL12, RT14, SGD15, SLS+12, ST15, SWF12, YPMM12, AYZI10, AZLY18, AST+16, ADI13, BBF+10, BBP13, BB17, BL15, CDTM10, CNRG19, CSKB12, CJ17, CJ19, CPST14, CPST15, EKUR10, GT10a, GMC+13, GGC19, HWM14, HWI+12, HOKO14, HWLM11, IHWN12, IRJ+12, JEC+12, JMO14, KATS12, KS13, KRCH14, KvRHA14, KS14, Lon10a, Lon10b, MCC17, MB12, MCY+10, MTSH16, Ott18, PDPM+16, PSW11, SZ11, SBK13, SMP10, SPY+16, SV17, SNS+14, UIY10, UPR+18, VSG17, XHH12, YP10, YKA+19, ZYZ+12, ZYY+19]. **Basic** [NBB18, CZ14]. **basic-block** [CZ14]. **basics** [Zak12]. **basierte** [Ric14]. **Battery** [ST15]. **battlefield** [WT10]. **Bayesian** [BSA14, RKHN18]. **Bazel** [McN19]. **BeagleBone** [Ric14]. **before** [TD15]. **Beginning** [McN19]. **begone** [MRMV12]. **Behavior** [Sun18, LWB+15, RLBV10, TABS12, WXR16]. **Behavioral** [LN15, AMWW15]. **behaviors** [PCL14]. **behaviour** [SMS+12]. **Beliefs** [BA17]. **Ben** [Teo12]. **Benchmark** [GBC12, SMSB11]. **Benchmarking** [CKS18, AHK+15, HCLH18, MDM17]. **benchmarks** [KHM+11, RGEV11]. **benefit** [HH13]. **best** [Sch13]. **Better** [Bro12, TD15]. **Between** [ADJG19, PVB17, ZLHD15, BKP16, CMM17, CSKB12, CSF+16, LSBV16, LSBV17, RDP16, SH12]. **beyond** [Mor18]. **Big** [BF18, GTS+15, NWB+15, NFN+18, RVK15, BOF17, BBXC13, RVK19, SSG+14, WR10, XGD+19]. **billions** [DRN14]. **Binary** [WWG+18, XXCL19]. **bindings** [VGRS16]. **bird** [Guy14]. **Birthmark** [PiLCH11]. **Bitcoin** [TD17]. **BIXSAN** [VS11]. **Blame** [KT15]. **BLeak** [VB18]. **Bloat** [MSS10, NWB+18, XMA+14, BRGG12, BBXC13, XR10]. **bloat-aware** [BBXC13]. **block** [CZ14, KBL14]. **block-level** [KBL14]. **blocking** [DW10]. **Blockly** [AMWW15]. **Blueshell** [PWA13]. **Board** [GLGA19]. **boilerplate** [ZCdSOvdS15]. **Book** [Ano15, Ano18, Bro12, Del13, Gve13, Kie13, Ngo12, Teo12, Teo13]. **Bookshelf** [Ano18]. **Boosting** [ASV+16, AC16]. **Bootstrapping** [CBLFD12]. **Bottle** [DSEE13]. **bottlenecks** [DSEE13]. **bottom** [ZMNY14]. **bottom-up** [ZMNY14]. **boundary** [RDP16]. **Bounded** [NWB+15, GMT14]. **Bounds** [SW12, GvRN+11]. **boxes** [BDGS13]. **Brain** [VBZ+18]. **breaking** [VB14a]. **Breakpoint** [ZW13]. **breakpoints** [PS12]. **Brewing** [WZL+18]. **Bridging** [PVB17]. **Bringing** [CV14, HRS+17, STS+13]. **Broken** [dGRdB+15, AZMT18]. **Browser** [MSSK16, PVB17, FIF+15, VS11, VB14a, WGW+11, YK14]. **Browsers** [HLSK13]. **Browsing** [LYM+18]. **Browsix** [PVB17]. **BUBiNG** [BMSV18]. **Budget** [GM12]. **buffered** [DLZ+13]. **buffers** [Gun14]. **Bug** [RPP19, LWH+10]. **Bugs** [OBPM17, XMD+17, ECS15, MDS+17, ODL15, Ryu16]. **Build** [BMDK15, BNE16, ELW15, MAH12, WSH+19]. **Building** [McN19, Sta10, SS19, HWW+15, Ngo12]. **built** [DTM+18]. **built-in** [DTM+18]. **Business** [CCA+12]. **Bytecode** [BDT10, BSOG12, FHSR12, NS12, RDCP12, Rey13, SEK+19, AdCGGH16, CZ14, CNRG19, DLM10, SP10b, SMP10, VB14b].

C [BB12, CDG+17, GBC12, KB11, LSBV16, LSBV17, NED+13, SRTR17, Sta10,

YSCX17, Zak18, ZWSS15]. **C#** [SSK13]. **C/C** [BB12, NED⁺13]. **CA** [KP15]. **cache** [IN12, ZP14]. **caches** [NGB16]. **calculations** [VSG17]. **Calculi** [FFF17]. **calculus** [AH10, PS10a]. **Call** [FGR12, PULO16, ZWZ⁺14, Xue12, SSB⁺14a]. **Call-site** [SSB⁺14a]. **calling** [HB13, SSB⁺14a, ZWZ⁺14]. **Calls** [SW12, SS16]. **came** [Car11]. **can** [TPG15]. **can't** [WA19]. **capabilities** [Ame13]. **capability** [RDF15]. **capo** [SMSB11]. **capturing** [BKC⁺13]. **Card** [GMPS12, BL15, ABFM12, MLM17, MLM19, dCMMN12]. **Cards** [BH12, GMNC13, GMPS12]. **care** [EKUR10]. **Caring** [DAA13]. **carry** [Ame13]. **Cartesian** [SD16b]. **Case** [LMZP19, ZMM⁺16, dGRdB⁺15, AMWW15, HNTL12, JK11, MT13, SPPH10, Vit14]. **Cassandra** [FRM⁺15]. **cast** [MHN19]. **Casting** [MHN19]. **casts** [SH12]. **categorizing** [CMM17]. **Catena** [TD17]. **Causal** [MRF18]. **Causes** [OBPM17, FRM⁺15]. **CAV** [KP15]. **Cay** [Gve13]. **CC** [LSBV16, LSBV17]. **CCA** [FLZ⁺18, ZXL16]. **Center** [Hol12]. **centric** [DHM⁺12, FOPZ14]. **CERT** [LMS⁺12]. **chain** [KSR14]. **Challenges** [GM12, SWMV17, Sie17, SR17, AACR18]. **Change** [YXS⁺19, YQTR15, MPR12]. **Change-Level** [YXS⁺19]. **Changes** [MvDL12, CJ19, PTRV18]. **Changing** [SSG⁺14]. **Channel** [Bul18]. **channels** [AGH⁺17, LS11]. **characteristics** [ABC18]. **Characterizing** [CJ17]. **check** [CS12, GvRN⁺11]. **Checking** [BNE16, CSF⁺16, Cho14, FSK12, JC10, JYKS12, ABFM12, BHSB14, BNS12, CVG⁺17, DLM10, FLL⁺13, HMDE12, KATS12, KvRHA14, LT11, RR14, RAS16, RDF15, TVD10, VYY10]. **checkpointing** [SGV12]. **checkpointing-enabled** [SGV12]. **Checks** [FMBH15]. **CHERI** [CDG⁺17]. **Children** [GLGA19]. **chip** [PS10b, Puf13, RS12, SPS17]. **chip-multiprocessor** [PS10b]. **chip-multiprocessors** [RS12]. **Choice** [JCMM19, WBM⁺10]. **CICS** [R⁺13]. **CIL** [BBF⁺10]. **circular** [Gun14, SZ10]. **Circus** [ZLCW14, MCW19]. **City** [Hol12]. **Class** [BS13, CSF⁺16, NCS10, CSKB12, HC10, MHM10, SC16, SM12, TSD⁺12]. **Classes** [And14, SVB⁺17, WT11, CZ14, CS12, SZ10, TSD⁺12, VBDPM16]. **Classfiles** [SD16a]. **Classification** [PBM⁺19, SS14]. **Classifiers** [BSA14]. **Classifying** [MHM10, PBB19]. **Classless** [WZdSOS17]. **clicker** [HA13]. **Client** [MS14, OBPM17, CH17, GGC19, KRH16]. **client-server** [GGC19]. **Client-Side** [OBPM17, KRH16]. **Client-State** [MS14]. **clients** [SRB18]. **Closure** [ECG12, FH11, VS10]. **Cloned** [SSL18]. **Closing** [ZLHD15]. **Closures** [BO11, BO12, BO13]. **Cloud** [VDV17, WZK⁺19, BFS⁺18, GGC18, LZYP16, TLMM13]. **cloud-based** [GGC18]. **clustered** [PDPM⁺16]. **clustering** [MKK⁺12, MKK⁺13]. **clusters** [TRTD11]. **Cocoa** [Sta10]. **Code** [ADJG19, BH17, BNE16, CJ19, HC11, MSS19, MM16, PKPM19, RVK15, RLMM15, SRTR17, SVB⁺17, SV15a, SED14, WWG⁺18, XXCL19, AGR17, AK13, CCFB15, DRN14, FLZ⁺18, FH16, FMS⁺11, GMNC13, GGC19, IS18, LVG10, MKK⁺12, MKK⁺13, NG13, OJ12, PTRV18, PBB19, PMP⁺16, PSW11, RFRS14, RBV16, RVK19, RO12, SSK13, Tai13, UTO13, VSG17, WKJ17, WGF11, WBA⁺11, WAB⁺11, WWS13, ZHL⁺12, ZXL16, ZWSS15]. **Code-Issue-Introducing** [CJ19]. **coding** [LMS⁺12, LMS⁺13]. **Coefficient** [ADJG19]. **Coffin** [Teo12]. **coherent** [ZP14]. **Cohesion** [RC17]. **Cold** [BZD17, WGF11]. **Collect** [JCMM19]. **collected** [AGGZ10]. **collecting** [AHK⁺11]. **Collection** [ASV⁺16, BF18, GM12, MAK19, QSaS⁺16,

ST15, URJ18, ASME18, AFGM15, BP10, BOF17, KPHV11, KBL14, NGB16, ODL15, PZM⁺¹⁰, PDPM⁺¹⁶, SP10a, SBM14, Sie10, SJBL10, SKBL11, UIY10, UJR14].

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comparing [MD15]. **Comparison** [BKP16, ADI13, BJBK12, HH13, KVRHA14, SMS⁺¹²]. **Comparisons** [GGZ⁺¹⁵].

Compartmental [WGW⁺¹¹].

compatibility [DJB16, OIA⁺¹³].

compatible [ABCR10, Hor12].

Competition [CKS18]. **Compilation** [DLR16, PKPM19, CGJ⁺¹⁶, CMS⁺¹², DLR14, FSC⁺¹³, IHWN12, JLP⁺¹⁴, JK13, JMO14, KS13, KHL⁺¹³, Lei17, MD15, MGI17, Ser18, ZBB15]. **compiled** [NED⁺¹³, RO12, TMVB13].

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component-based [AST⁺¹⁶, GT10a].

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Composable [SS10]. **Composing** [EABVGV14]. **Composition** [SK12, AGH⁺¹⁷, AH10, SZ10, VM15].

compositional [BGOS18].

Comprehension [BGK17].

Comprehensive [STST12, VBMA11, ZKB⁺¹⁶, MKZ⁺¹⁴].

Compressing [Gun14]. **Computation** [BW12, LYM⁺¹⁸, ZHL⁺¹²].

Computation-Intensive [LYM⁺¹⁸].

computational [Bra14, SSG⁺¹⁴, VF10].

computations [KFBK⁺¹⁵, TLMM13].

Computer [HWM11, OAC18, DNB⁺¹², KP15].

Computing [Hol12, MPR12, NBB18, PWSG17, PWSG19, SHU16, TWNH12, WN10, AdSCdR⁺¹⁹, Dan18, HCLH18, LZYP16, Rub14, TTD⁺¹¹, VF10, TRE⁺¹³].

con [SMSB11]. **conceptual** [Tai13].

Concurrency [BG17, Bro12, SWF12, BVGVEA11a, CHM13, DMS11, HAW13, KHL⁺¹⁷, PPS16, Sub11, TD15, UR15].

Concurrent [MSM⁺¹⁶, PS12, Sie10, BP19, BMSZ17, EP14, Gra15, HJH10, KBL14, MSM⁺¹⁰, OW16, PTF⁺¹⁵, RVP11, STR16, SNS⁺¹⁴, WLL19, YS10, YKA⁺¹⁹].

concurrent-by-default [SNS⁺¹⁴].

Conditional [XMD⁺¹⁷, SS16]. **Conference** [DDDF17, Hol12, KP15, LMK16, PDPM⁺¹⁶].

Configurations [PSJ18]. **conflict** [ABC18].

Conformance [AGR12, SKR17]. **Confused** [BH12]. **Connecting** [NFN⁺¹⁸]. **conquer** [SBF⁺¹⁰]. **Consequences** [OBPM17].

conservative [SBM14]. **Consistency**

[CSF⁺16, CS12, DNB⁺12, FRM⁺15, ZBB17]. **consistent** [BCR13]. **constrained** [KSR14]. **constraint** [FMBH15, SHU16]. **Constraints** [SGD15, LSSD14]. **construction** [CIAD13, RGEV11]. **constructors** [MME14]. **constructs** [PCL14, PTF⁺15]. **consumers** [DAA13]. **Consumption** [MV16]. **container** [XR13]. **containers** [XR10]. **Context** [HWM13, MM16, TL17, HB13, IvdS16, LTMS18, LX19, SSB⁺14a, ZYY⁺19]. **Context-sensitive** [HWM13]. **Contextual** [MSSK16]. **Continuous** [Teo12]. **Continuously** [DTLM14]. **Contracts** [YQTR15, HBT12, KT15, KKW11]. **Control** [FGR12, FHSR12, TT11, TNTN12, AdCGGH16, BNP⁺18, BL15, FWDL15, LSWM16, RHN⁺13, STS⁺13, TABS12, WLL19, XHH12]. **controlling** [BKC⁺13, YDFF15]. **Convention** [Hol12]. **conversions** [CMM17]. **Converter** [YWW⁺18]. **Cooperative** [YDFF15, HdM17]. **Coordinating** [MAHK16]. **coordination** [BMSZ17]. **copy** [FBH17]. **copyrightable** [Sam12]. **Core** [Hor11, HC13, RDCP12, RTE⁺13, MS10, PLL⁺18, TRTD11, Gve13]. **cores** [GTSS11, SKBL11]. **Cornell** [Gve13]. **corpus** [HCN14, LSBV16, LSBV17, TMVB13]. **correct** [AdCGGH16, AJL16, DJLP10, PS10a]. **Correctness** [LL15, BENS12, Cho14]. **Correlation** [SDC⁺12, XHH12]. **Corrigendum** [LSBV17]. **Cost** [MSS19]. **costs** [OD18]. **counter** [LSSD14]. **counters** [IN12]. **Counting** [Bul18]. **Course** [Wan11, Zak12]. **Coverage** [CSS⁺16, GGZ⁺15, MSS19, RGB18]. **Coverage-Based** [GGZ⁺15]. **Coverage-directed** [CSS⁺16]. **CPS** [PDDD17]. **CPU** [PKO⁺15]. **Crawling** [BMSV18, MvDL12]. **Creating** [YMHB19, HC10, VBAM10b]. **Creation** [SK12]. **crisis** [AT16]. **Critical** [HL13, MCW19, WK12, WCB16, ZLCW14, AGR17, DTLM14, GMC⁺13, NM10a, Nil12b, RS12, SDH⁺17, CWW13, LWC17]. **Cross** [GSS⁺18, MDM17, OTR⁺18, WBHN18, XXCL19, AMWW15, BKC⁺13, GSS⁺16, KMZN16]. **Cross-Architecture** [XXCL19]. **cross-cutting** [AMWW15]. **Cross-Language** [GSS⁺18, MDM17, GSS⁺16]. **Cross-Layer** [OTR⁺18]. **Cross-OS** [XXCL19]. **Cross-Platform** [WBHN18]. **cross-program** [KMZN16]. **cross-thread** [BKC⁺13]. **Crowdsourcing** [BH17]. **CrowdSummarizer** [BH17]. **crypto** [PTRV18]. **Cryptography** [GPT12]. **CSM** [dARPH⁺19]. **CSS** [Ano15, HLO15, Sta10]. **Curve** [GPT12]. **customizations** [LVG10]. **customized** [HB13]. **cutting** [AMWW15]. **Cyclic** [BMOG12, RS12].

D
[DiP18b, FLZ⁺18, GBC12, JEC⁺12, ZXL16]. **DAA** [DR10]. **Dalvik** [AFGM15]. **dark** [MHN19]. **Data** [Bra14, BMOG12, BA17, BF18, GM12, GTS⁺15, GT10b, JJCO19, NKH16, NWB⁺15, NFN⁺18, NWB⁺18, TAF⁺18, YWW⁺18, ZLNP18, dMRH12, AFGM15, BK14, BB17, BOF17, BBXC13, BJBK12, CDTM10, CRP⁺10, DFR13, DHM⁺12, EKUR10, FOPZ14, KB17, LDL14, MRA⁺17, MTSH16, NL14, SAdB⁺16, SSG⁺14, SGG⁺17, UMP10, WKJ17, WCG14, XXZ13, XMA⁺10, XGD⁺19, ZIvdS17]. **data-centric** [DHM⁺12, FOPZ14]. **Data-Driven** [JJCO19]. **Data-Intensive** [NWB⁺18]. **Data-Parallel** [NKH16, CRP⁺10]. **database** [Dei10, EKUR10, TABS12]. **databases** [EKUR10, MLGA11]. **Dataflow** [BR12]. **Datalog** [ZMG⁺14]. **dataset** [MDS⁺17]. **David** [Kie13]. **Days** [Sev12b]. **DBT** [KS13]. **dead** [SK13]. **Deadlock** [CHMY19, CHMY15, SR14a, SR14b].

deallocated [AFGM15]. **Dean** [Bro12].
Debt [YXS⁺19]. **debugging** [ASdMGM14, BM14, KS14, TB14, VB18, ZFK⁺16].
December [LSBV17]. **Deciding** [SGD15].
decision [RBV16]. **Declarative** [DRN14, RSI12, FOPZ14, WCST19, MME⁺10].
Decomposition [AGH⁺17, PLL⁺18].
deconstructing [ACS⁺14]. **decoupled** [LPA13]. **deduplication** [HOKO14].
Default [BG17, SNS⁺14]. **defects4j** [MDS⁺17]. **defined** [FMS⁺11]. **Definite** [NS12]. **Definition** [SSB14b, AK13, SSB01].
Definitive [Oak14]. **delegation** [GBS13].
delimited [PDDD17]. **DelphJ** [GBS13].
demand [FWDL15, SNCM19, ZHL⁺12].
demand-driven [FWDL15, SNCM19].
DemoMatch [YKSL17]. **demonstrations** [YKSL17]. **Deoptimization** [KRCH14].
depend [LCW18]. **dependability** [GD10].
Dependence [PDDD17, JWMC15].
Dependence-driven [PDDD17].
dependences [BKC⁺13, WLL19].
dependencies [ELW15]. **Dependency** [ZBvdB⁺19]. **Dependent** [CHJ12, LE16].
deploying [R⁺13]. **deprecation** [SRB18].
depth [HTBB16, Rau14]. **Design** [AC16, CNRG19, ETDD12, MLGA11, Puf13, RTE⁺13, SW12, TRTD11, TKL⁺15, VGRS16, YCYC12, BBXC13, CSdL16, GSD⁺15, IRJ⁺12, Lon10a, Lon10b, OA17, SAdB⁺16, SMSB11, VM10, Xue12].
Designing [Sev12b, KHR11]. **Desktop** [GS11]. **destructive** [FF10]. **detect** [GGC19]. **Detecting** [BK12, HLO15, PiLCH11, XR10, FF10].
Detection [BH10, BSOG12, KCD12, MS14, RD15, XMA⁺14, AMT17, BGOS18, CSK17, LMK16, LS11, ODL15, PG12, RDF15, RGB18, RW17, SR14a, SR14b, SS14, WCG14, XXZ13, XR13].
detector [WFF18]. **detectors** [LWH⁺10].
Determinacy [AM14]. **Determination** [YXS⁺19]. **deterministic** [DNB⁺12, MvH15]. **develop** [WA19].

developer [EV13, Top11, ZZK13].
Developers [Bro12, BMR14, DJB16, HH13, Wam11].
Developing [FGB⁺19, R⁺13].
Development [ABK⁺16, AYZI10, MT13, PBM⁺19, AGR17, BM18, FRGPLF⁺12, GT10a, PSW11, SKR17, SH12, WBA⁺11, ZDS14].
Device [TTD⁺11, XHH12]. **Devices** [GPT12, JQJ⁺16, MV16, ETR⁺15, Xue12].
DFC [BR12]. **diagnosis** [RW17]. **DiAl** [STCG13]. **dialects** [BlvdS17]. **difference** [PS11]. **differential** [CSS⁺16].
Differentiation [FHP⁺12, PQD12, SD16a].
digital [JMO14]. **dimensional** [TGZ17].
Directed [STR16, CSS⁺16, EP14, Lei17, NG13, NED⁺13, WM10]. **directives** [VGS14]. **Discovering** [Sev12a]. **discovery** [YKSL17]. **discrete** [DDDF17]. **Disease** [PE11]. **Disjunctive** [JJCO19]. **Dissimilar** [Has12]. **Distance** [ZW13]. **distributable** [CRAJ10]. **Distributed** [BVEAGVA10, CWGA17, LTD⁺12, LM15, MAHK16, MRF18, NFN⁺18, PE11, YMHB19, AdSCdR⁺19, BVGVEA10, BVGVEA11b, BVGV14b, CDBD18, CRAJ10, EABVGV14, STCG13, SS19].
distributing [TGZ17]. **divide** [SBF⁺10].
Do [HH13, LMZP19, Han15]. **Does** [BRGG12, Rub14]. **DOJ** [hEYJD12]. **DOM** [GGC18]. **DOM-Based** [GGC18]. **Domain** [KSPK12, CSdL16, EEK⁺13, HWW⁺15, PIR17]. **domain-specific** [CSdL16, EEK⁺13, HWW⁺15]. **dominance** [CPST14]. **Doppio** [VB14a].
DoubleChecker [BHSB14]. **down** [Ker15, ZMNY14]. **DRAM** [OTR⁺18]. **drf** [MSM⁺16]. **DRFX** [MSM⁺10, SMN⁺12].
Driven [CCA⁺12, JJCO19, YPMM12, BM18, FGB⁺19, CHM13, FWDL15, HZZK19, LKP19, MTL15, PDDD17, SR14b, SNCM19].
drug [EKUR10]. **DSL** [KARO12]. **DSLs** [KHR11, RO12, SC16]. **DSSAT**

[dARPH⁺19]. **DSSAT-CSM** [dARPH⁺19]. **DSU** [PVH14]. **Dual** [AD16]. **Dual-Pivot** [AD16]. **Dynamic** [AGM⁺17, ABMV12, ASF17, BFS⁺18, CHMY15, CHMY19, LMZP19, MRF18, MvDL12, PTHH14, RDF15, SMP19, WWG⁺18, XMA⁺14, ZKB⁺16, AF12, BDB11, BK14, BCD13, BOF17, CSV15, CDBD18, CPST15, DTM⁺18, ELW15, GYB⁺11, HB13, KRCH14, KRR⁺14, KT14, LWH⁺10, LVG10, MKZ⁺14, Nil12b, NG12, NED⁺13, RLBV10, RCR⁺14, RRB17, SR14b, SPKT18, SJPS10, SH12, TPG15, VBAM10b, WXR16, WFF18, WBA⁺11, WAB⁺11, WWS13, WWH⁺17, ZBB15]. **dynamic-memory** [GYB⁺11]. **Dynamically** [WWG⁺18, CZ14, CMS⁺12, hEYJD12]. **Dynamically-Generated** [WWG⁺18]. **Dynamo** [BDB11].

e-Science [SGV12]. **ease** [DRN14]. **Easy** [Jaf13, CRP⁺10]. **economic** [CSV15]. **economics** [SJBL10]. **Ecosystem** [YMHB19]. **Edition** [Ano15, Gve13, LYBB14]. **editor** [EKR⁺12]. **Editorial** [Fox17a]. **Editorials** [Fox17b, HTW14, RHT13]. **EdSketch** [HZZK19]. **EDSLs** [RDP16]. **Educator** [BA17]. **EE** [Jen12, MCC17]. **Effect** [BSO18, JK11, CCFB15]. **Effective** [BMR14, PTML11, RD15, CSdL16, KPP⁺18, Kie13]. **Effectively** [UR15]. **effects** [FH16, HAW13, Lei17]. **Efficiency** [OTR⁺18, SEPV19]. **Efficient** [DVL13, GPT12, HWM11, HB13, KT14, KW10, OOK⁺10, RSF⁺15, RFBJ14, SYZZ⁺14, SMN⁺12, TLX17, TN19, TD17, AK13, BHSB14, CRP⁺10, ETR12, HWM10, KKW11, MRA⁺17, MSM⁺10, Pos19, Sie17, SGV12, SWB⁺15, SV15a, TRTD11, UMP10, VWJB10, XXZ13, ZDK⁺19, SV18]. **Efficiently** [FBH17, BKC⁺13, FOPZ14]. **Einsatzszenarien** [Sch13]. **Einsteiger** [Ric14]. **Elektronik** [Ric14]. **Elektronik-Projekte** [Ric14]. **Elephant** [RGM13]. **Elimination** [RKN⁺18, GvRN⁺11]. **elision** [NM10a]. **Elliptic** [GPT12]. **Eloquent** [Hav11]. **emass** [Por18]. **Embedded** [Fox17b, HTW14, JMB12, KARO12, Pau14, SLES15, SLE⁺17, TKL⁺15, VK12, Dei10, Fox17a, GMC⁺13, HTLC10, KHR11, LMK16, LTK17, OIA⁺13, RHT13, SC16, SDH⁺17, SFR⁺14, UIY10, Xue12, ZYZ⁺12]. **embedding** [KMLS15, SC16]. **emerging** [CDMR19]. **Empirical** [LSBV16, LSBV17, SS13, WXR16, BJBK12, FH16, HH13, KPP⁺18, MHN19, MHR⁺12, NCS10, SH12, Tai13, VBDPM16, VBMDP16]. **Employing** [CC15]. **Emscripten** [Zak18]. **emulated** [THC⁺14]. **Emulation** [XXCL19]. **emulator** [KS13]. **Enabled** [GPT12, DR10, ETR⁺15, RBL12, SGV12]. **encapsulation** [DDM11]. **End** [GM12, DAA13]. **End-to-End** [GM12]. **end-user** [DAA13]. **Energy** [OTR⁺18, CL17, PCL14]. **energy-aware** [CL17]. **enforcement** [IF16]. **enforcing** [JWMC15]. **Engine** [SMP19, MGI17, Ngo12, OUY⁺13, Tar11, Ngo12]. **Engineering** [CCA⁺12, GT10a, MLM17, MLM19, VF10]. **engineers** [Bra14]. **engines** [KRH16, SSG⁺14]. **enhanced** [LMK16, WBA⁺11]. **enhancement** [WCST19]. **Enhancing** [BDT10, BVGVEA13, DcSG12, HC10]. **Ensuring** [HDK⁺11]. **Enterprise** [Ano14, AAB⁺10]. **entities** [ETR12]. **Entry** [BK12]. **enumeration** [SSH17]. **Environment** [Köl10, PTML11, RK19, EKR⁺12]. **Environments** [BF18, EABVGV14, GTL⁺10, HOKO14, KF11, RDP16, RCB17, SGV12]. **equality** [GRF11]. **Equilibrium** [YMHB19]. **Equivalence** [BO12]. **equivalent** [TLX17]. **equivocation** [TD17]. **ERAM** [Sch10a].

Erratum [HWM11]. **error** [eBH11]. **ES5** [DFHF15, Mor18]. **ES6** [Mor18]. **Escape** [SLES15, SLE⁺17]. **Espresso** [WZL⁺18]. **Essential** [Ngo12]. **estimation** [LMK16]. **etched** [VSG17]. **Ethereum** [Dan17]. **eval** [Mil13, MRMV12]. **Evaluating** [BGK17, BLH12, MDHS10]. **Evaluation** [CSZ17, GBC12, JMB12, OCFLI14, TTS⁺10, Wan11, CSK17, MRA⁺17, MD15, WWH⁺17, XGD⁺19]. **Evaluator** [JB12]. **Event** [KW11, MV16, BBP13, KW10, MTL15, WK12, YP10]. **event-based** [BBP13, YP10]. **event-driven** [MTL15]. **EventBreak** [PSNS14]. **ever** [Gra15]. **everyone** [Hor12]. **Evolution** [CC15, GMPS12, Mei14, JK11, MAH12, NCS10, WBA⁺11, WAB⁺11, WWS13]. **evolving** [ZZK13]. **Exact** [ZW13]. **Examples** [BNP11, Del13]. **Exception** [LT14, ECS15, HWM14, LT11]. **Exceptionization** [YKM17]. **Exceptions** [ASF17, AdCGGH16, HdM17, SMN⁺12, ZBB17]. **Execution** [Bul18, MSS19, NNTK17, NNT⁺19, OwKPM15, SWMV17, BNP⁺18, Cha18, HZZK19, JLL17, JhED11, LLL13, MMP⁺12, RCB17, SPPH10]. **execution-driven** [HZZK19]. **Executions** [WCG⁺18, ASdMGM14, PPS16, STR16]. **executives** [RS12]. **Exemplar** [ZW13]. **exhaustive** [DHS15]. **exhibitionism** [VBMDP16]. **existential** [AT16]. **Exogenous** [BMSZ17]. **Experience** [ABMV12, OW16, Sch10a, FGB⁺19, CBLFD12, TRE⁺13, WT10]. **Experiment** [BKP16, MDS⁺17, HWLM11]. **experimental** [XGD⁺19]. **explicit** [NGB16]. **exploit** [Ano13]. **Exploitation** [SSMGD10, HTBB16, MLM19]. **Exploiting** [NKH16, QSaS⁺16]. **exploration** [FWDL15]. **explorative** [AHK⁺15]. **Exploratory** [BKP16, ECS15]. **explore** [Dan18]. **EXPLORER** [FWDL15]. **Exploring** [JK13, JWMC15, SE12]. **exposed** [VBDPM16]. **Express** [JQJ⁺16]. **Expression** [NS12, PIR17]. **Expressions** [NM10b, GK15, MKTD17]. **expressive** [VYY10]. **Extended** [DDDF17, FGR12, FLL⁺13, JC10, LMK16, PDPM⁺16]. **Extending** [AC10, BVGVEA11a, LPA13, PTHH14]. **Extensible** [ZlvdS17, ER14, KMLS15, MHBO13]. **Extension** [RSI12, WA19, LE16, MLGA11, PdMG12]. **extensions** [MPR12, Zha12]. **Extensive** [LMZP19, Wan11]. **Extracting** [CJ19, CCA⁺12, KM10]. **extraction** [LKP19]. **Extremal** [LTD⁺12]. **Eye** [OAC18, RLMM15, Guy14]. **Eye-Tracking** [OAC18, RLMM15]. **F** [GMT14, TTD12]. **F-bounded** [GMT14]. **F-MPJ** [TTD12]. **FAA** [Sch10a]. **FACADE** [NWB⁺15]. **face** [XHH12]. **Facebook** [Ano13, HOSC16]. **Facets** [ASF17, AF12]. **facilities** [BVGVEAFG11]. **Factors** [PGA18]. **FAD.js** [BB17]. **failboxes** [ZBvdB⁺19]. **failing** [STR16]. **failures** [CRAJ10]. **false** [HWI⁺12]. **familiarized** [Ame13]. **family** [KHM⁺11, KvRHA14]. **family-based** [KvRHA14]. **Fast** [CVG⁺17, CSGT17, HyG12, SBM14, SLF14, YMHB19, Zak18, BB17, KMMV14, KCP⁺17, LX19, MDM17, MHBO13, SV15b, WSH⁺19]. **Faster** [BMDK15, JC10, AJL16]. **Fault** [RK19, RBL12]. **Fault-Tolerance** [RK19]. **Faults** [SRTR17, KPP⁺18, ZZK13]. **FC** [YWW⁺18]. **Featherweight** [RvB14]. **feature** [AH10, KvRHA14, OJ12, SS19]. **feature-based** [KvRHA14]. **features** [MKK⁺12, MKK⁺13]. **Feedback** [NED⁺13, NG13, WM10]. **Feedback-directed** [NED⁺13, NG13, WM10]. **fields** [PQTGS17]. **FIFO** [QSaS⁺16]. **filtering** [HWI⁺12]. **find** [Ryu16]. **Finding** [AZMT18, RPP19, XMA⁺10]. **Fine**

[BVGVEAFG11, DRN14]. **fine-grained** [DRN14]. **Fingerprints** [MSSK16]. **Finite** [BLH12, MB12]. **Finite-State** [BLH12]. **first** [SC16, TSD⁺12]. **first-class** [SC16, TSD⁺12]. **fix** [TPG15]. **Fixing** [SRTR17, LTZ14, YSCX17]. **flexibility** [SBF⁺10]. **Flexible** [ES14, MSM⁺16, PKC⁺13, RHN⁺13, BCD13, KHR11, Por18, ZW10]. **Flint** [LTZ14]. **Floating** [Jaf13, AJL16]. **Floating-Point** [Jaf13, AJL16]. **Flow** [ASF17, FHSR12, LMK16, SS12, AdCGGH16, AF12, ABFM12, BK14, BL15, FWDL15, HBS16, KHL⁺13, LSWM16, PMTP12, STA18, YSCX17]. **Flow-sensitive** [LMK16, STA18]. **FlumeJava** [CRP⁺10]. **fly** [UJR14, URJ18]. **folding** [CPST14]. **Footprint** [GS12, WHIN11]. **Forecasting** [CC15]. **foreign** [LWH⁺10]. **forge** [Ler10]. **fork** [MZC10a]. **fork/join** [MZC10a]. **form** [GK15]. **Formal** [DLPT14, KR12, SW12, HdM17, PSR15, SZ11]. **formalised** [CWW13]. **formalization** [BP19]. **Format** [YWW⁺18]. **Forsaking** [GBS13]. **FORSETI** [CSV15]. **Forward** [FOPZ14]. **Foundation** [CJ17]. **Four** [MSS10]. **FPGA** [OUY⁺13]. **fragmentation** [PZM⁺10]. **fragmentation-tolerant** [PZM⁺10]. **Fragments** [PBM⁺19, OA17]. **frames** [SJPS10]. **Framework** [CCA⁺12, Den18, FFF17, LM15, PWSG17, PWSG19, RBL12, SEK⁺19, TN19, Ame13, AC16, DDDF17, ER14, FRGPLF⁺12, GGC19, JEC⁺12, KMLS15, Lon10a, Lon10b, MT13, PGA18, PKO⁺15, RR14, STY⁺14, ZW10, ZDS14]. **frameworks** [PPMH15]. **Francisco** [KP15]. **free** [DTLM14, FC11, GK15, HHB⁺14, NFV15]. **free-form** [GK15]. **free-lunch** [DTLM14]. **frequency** [ZWSS15]. **Frequent** [RC17]. **Friendly** [RBL12]. **fringe** [MB12, MB12]. **Full** [SRTR17, CDBD18, DRN14]. **full-stack** [CDBD18]. **Full-Word** [SRTR17]. **Fully** [FSC⁺13, PG12, ZFK⁺16].

Functional [HOSC16, Wam11, Ame13, BVGVEA11b, NFV15, SV18, UFM15, Bro12]. **functional-style** [UFM15]. **functions** [LSBV16, LSBV17, SPKT18]. **Fundamentals** [HC13, Teo13, Gve13]. **Fusing** [MS13, ETR12, WM10]. **fusion** [KBPS17]. **future** [HCLH18, SS16]. **fuzzer** [Guo17]. **Fuzzy** [YPMM12]. **Fuzzy-Rule-based** [YPMM12].

Game [MT14, Wan11]. **Games** [GLGA19]. **Gap** [PVB17, ZLHD15]. **Garbage** [ASV⁺16, BH12, BF18, GTS⁺15, JCMM19, MAK19, QSaS⁺16, Sch13, SKBL11, URJ18, ASME18, AGGZ10, AFGM15, BCR13, BP10, BVGV14b, BOF17, GTSS11, KPHV11, KBL14, NGB16, PZM⁺10, PDPM⁺16, Puf13, SP10a, SBM14, Sie10, SJBL10, UIY10, UJR14, XGD⁺19]. **garbage-collection** [Sie10]. **Gary** [Gve13]. **GC** [NGB16, RGM13, SEPV19]. **GC-Wise** [SEPV19]. **GEMs** [BSMB16]. **General** [CHMY19, AdSCdR⁺19, AZLY18, CHMY15, EKUR10]. **general-purpose** [AdSCdR⁺19]. **generalized** [WT10]. **generate** [CS12]. **Generated** [WWG⁺18, BM18]. **Generating** [HJS⁺10, RDP16, GRF11, KS14, MHBO13, SSK13]. **Generation** [AGM⁺17, BH17, YWW⁺18, CRJ⁺10, CMM⁺10, PPMH15, Pha18, PSNS14, Rim12, RO12, SPKT18, UMP10, ZYY⁺19]. **generations** [BOF17]. **generators** [SLF14]. **generic** [DDM11, Fer13, HH13, ZPL⁺10, eBH11]. **generics** [AS14, Gri17, PBMH13]. **Genetic** [YCYC12, MT13]. **Genotyping** [YCYC12]. **GeoGebra** [ABK⁺16]. **geosciences** [MCY⁺10]. **Geospatial** [CH17]. **German** [Sch13]. **get** [Ame13]. **Getaway** [SLES15, SLE⁺17]. **Gets** [BH12]. **getters** [Mil13]. **Getting** [GMT14]. **Giga** [DHS15]. **Giga-scale** [DHS15]. **GitHub** [LMZP19]. **glimpse** [SP16]. **Global** [PE11].

Global-Scale [PE11]. **Globally** [YMHB19]. **Glutaran** [SLS⁺12]. **go** [LWB⁺15, McN19]. **Goldilocks** [EQT10]. **Good** [dGRdB⁺15]. **Google** [Ngo12, MGI17, Sam12]. **GPGPU** [PQTGS17]. **GPGPU-accelerated** [PQTGS17]. **GPU** [CNRG19, PKO⁺15]. **GPU-based** [CNRG19]. **GPUs** [Hos12]. **grade** [CRJ⁺10]. **Gradual** [RSF⁺15, SFR⁺14, TSD⁺12, Sie17]. **grained** [DRN14]. **grammars** [GN16, SHU16]. **Granularity** [RRB19, CZ14, YKA⁺19]. **Graph** [dMRH12, BS13]. **Graphical** [SLS⁺12]. **Graphics** [Cec11, LLL13]. **graphs** [AdCGGH16, DSEE13, JWMC15, PULO16]. **green** [BRGG12]. **Greenfoot** [Kö10]. **grid** [SGV12, VWJB10, MZC10b]. **Gridifying** [MZC10b]. **grounded** [EV13]. **Growing** [EKR⁺12]. **growth** [LDL14]. **guarantees** [JWMC15, ZHCB15]. **GUI** [CNS13, VGS14, WBA⁺11]. **GUI-awareness** [VGS14]. **Guide** [Ame13, Oak14, Rau14, Teo13, Top11]. **Guided** [CNS13, DiP18b, MMP15, GY16, LTMS18, Ott18, PSNS14, RKHN18, SSH17]. **Guidelines** [GGZ⁺15, HLSK13, LMS⁺13].

Hack [Ott18]. **handlers** [BSO18]. **Handling** [KW11, ECS15, HWM14, KW10, WK12]. **Hands** [CSZ17, Teo13]. **Hands-on** [CSZ17, Teo13]. **happened** [Han15]. **happens** [TD15]. **happens-before** [TD15]. **hard** [LTK17, Puf13]. **Hardware** [MAK19, SKKR11, SPS17, CBGM12, IN12, SE12, ZDK⁺19]. **hardwired** [OUY⁺13]. **harness** [Kie13]. **harvesting** [AFGM15]. **hash** [SV15a, SV15b, SV18]. **hash-array** [SV15b]. **hash-tries** [SV18]. **hashing** [GRF11]. **HDFS** [IRJ⁺12]. **HDL** [OUY⁺13]. **health** [EKUR10]. **heap** [CSV15, LDL14, TLX17, Tar11, VYY10, YS10, BVGVEA10]. **heap-manipulating** [YS10]. **Heaps** [NFN⁺18]. **Helping** [RT14]. **Hera** [MS10]. **Hera-JVM** [MS10]. **Herman** [Kie13]. **Heterogeneous** [ASV⁺16, HHB⁺14, Rub14, AYZI10, ABCR10, DFR13, MS10, SV18]. **Heterogeneous-race-free** [HHB⁺14]. **Heuristics** [MGI14, LMK16]. **HHVM** [Ott18]. **Hidding** [RBL12]. **hierarchy** [BS13]. **High** [GSS⁺16, Hol12, IRJ⁺12, MSM⁺16, RGB18, SWU⁺15, URJ18, WN10, Zak10, BRWA14, Hos12, Ngo12, RFBJ14, TTD⁺11, TGZ17, VWJB10, WFF18, WWH⁺17, TRE⁺13]. **High-coverage** [RGB18]. **high-dimensional** [TGZ17]. **high-level** [Hos12, RFBJ14, VWJB10]. **High-Performance** [URJ18, WN10, GSS⁺16, BRWA14, Ngo12, TTD⁺11, WFF18, WWH⁺17]. **higher** [KT15, SPKT18]. **higher-order** [KT15, SPKT18]. **highly** [BP10, SPP⁺10]. **history** [DRN14]. **hit** [Ano13]. **Hoare** [SD16b]. **hole** [Ano13]. **Holistic** [MAHK16]. **Hop** [WBHN18, D⁺H12]. **Hopjs** [SP16]. **Horstmann** [Gve13]. **hosted** [CBLFD12, SYZZ⁺14]. **hot** [LMK16]. **HotSpot** [Sch13, BOF17]. **HotWave** [ABMV12, VBAM10b]. **HPC** [JQJ⁺16]. **HTM** [CHM16]. **HTML** [Sta10]. **HTML5** [HLO15, NKH16, Ano15]. **Hunting** [GGC18]. **HVM** [LTK17]. **Hybrid** [CHM16, JQJ⁺16, JMO14, KCD12, VDV17, ZMNY14, ZMM⁺16, ASME18, ADI13, HyG12, PdMG12, STA18, SWB⁺15]. **Hybris** [VDV17]. **hygienic** [DFHF15]. **hypervisor** [GMC⁺13].

i-Jacob [LYM⁺18]. **IaaS** [ZLHD15]. **Identification** [MTSH16, PBM⁺19, SBE⁺19, BZD17, FMS⁺11]. **Identifier** [SRTR17]. **identifiers** [FMS⁺11]. **Identifying** [IN12, SVB⁺17]. **if** [Han15, STA18]. **If-transpiler** [STA18]. **illuminating** [BK14]. **Image** [WN10]. **immutability** [HMDE12, ZPL⁺10]. **immutable** [SV15b]. **impact** [CMS⁺12,

Gra15, HWLM11, MPR12, WKJ17].
imperative [RFRS14]. **implement** [HdM17]. **Implementation** [CSF⁺16, GPT12, HM12, NBB18, CNRG19, OA17, Por18, VGRS16, YP10].
implementations [CSS⁺16, OJ12, PS10a].
Implementing [FFF17, GM12, WCB16, EEK⁺13, FBH17, PMP⁺16, ZBvdB⁺19].
implications [BRGG12]. **implicit** [IvdS16, SPAK10]. **imply** [BRGG12].
Improve [OTR⁺18, QSaS⁺16]. **Improved** [KRR⁺14, UIY10, OJ12, XHH12].
Improvement [RC17]. **Improving** [ACS⁺14, HWI⁺12, TWSC10, WWG⁺18, eBH11, UTO13]. **in-depth** [HTBB16, Rau14]. **in-place** [DVL13].
including [Den18]. **Incremental** [LHR19, DS16, ELW15, UIY10].
independent [IF16, VS11]. **industrial** [CRJ⁺10]. **inefficiently** [XR10].
inefficiently-used [XR10]. **Inference** [BO13, YHY13, AGGZ10, CGJ⁺16, HyG12, HMDE12, RKHN18, Zha12]. **Inferring** [PTRV18, AS14, BENS12]. **InfiniBand** [ETTD12, IRJ⁺12]. **infinite** [ASdMGM14].
Inflow [ZMM⁺16]. **influence** [MHR⁺12].
Informa [HA13]. **Information** [ASF17, HBS16, KHL⁺13, RKN⁺18, SS12, AF12, ABFM12, BVGVEA11b, CMS⁺12, PMTP12, RRB17, ZYY⁺19].
Information-flow [HBS16].
Infrastructure [Den18, NG12, WCST19].
Inheritance [LN15, WT11, AST⁺16, GBS13, NCS10].
Initial [LTD⁺12]. **initialization** [AMT17, MME14, WSH⁺19]. **Initialize** [WSH⁺19]. **Initiation** [FGR12]. **Injecting** [ZZK13]. **Injection** [SBE⁺19]. **inline** [DJLP10]. **Inlining** [BA12, STA18, HWM13]. **input** [Pha18].
insecure [YW13]. **Insight** [VF10].
instanceof [SMS⁺12]. **Instant** [MHBO13].
instantiation [AST⁺16]. **instead** [AGH⁺17, BTR⁺13]. **instrumenting** [CZ14]. **Integrated** [Tar11, YP10].
integrating [SPP⁺10]. **integration** [Ame13, HKVVG14, dARPH⁺19, Sch10a].
integrity [HDK⁺11]. **Intel** [CDMR19].
intelligence [JACS10]. **Intelligent** [Pau14].
IntelliMerge [SZZ⁺19]. **Intensive** [LYM⁺18, NWB⁺18, SAdB⁺16]. **inter** [CMM17]. **inter-language** [CMM17].
Interacting [SK13]. **Interaction** [WT11].
Interactive [FBG17, AMWW15, Dan18, JH11, MCY⁺10].
intercession [VM10]. **interdependencies** [LBF12]. **Interface** [Liu14, MvDL12, SLS⁺12, AYZI10, MT14, LT11, LT14].
Interfaces [WT11, Cho14, DLM10, LWH⁺10, PSNS14, WT10]. **interference** [YDFF15]. **International** [Hol12, KP15, Fox17a]. **Internetwork** [LYM⁺18]. **Internetwork-Oriented** [LYM⁺18]. **Interoperability** [GSS⁺18, GSS⁺16]. **Interpretation** [BDT10, DLR16, DLM10, DLR14, NSDD17].
Interpretation-Based [DLR16].
interpreter [D'H12, KMMV14].
interpreters [CNRG19, HWW⁺15, IvdS16, MD15, SYZZ⁺14, ZLBF14].
Interprocedural [CPV15, FWDL15, ZMNY14]. **Interrupting** [AST12]. **intersection** [KT15]. **intra** [BJBK12]. **intra-node** [BJBK12].
Introducing [CJ19, Dan17, DMS11].
Introduction [CIAD13, CSZ17, HTLC10, HTW14, Lew13, RHT13, VK12, Hav11, VF10].
Introductory [BNP11]. **intrusively** [MZC10a]. **Invasive** [ADJG19].
Investigation [SS13, FH16, Tai13]. **invited** [Piz17, Sie17]. **invocation** [SPAK10, SS19, BVGVEAFG11].
invocations [BVG14a]. **invokedynamic** [OCFLI14]. **Involvement** [ZMM⁺16]. **IP** [TKL⁺15]. **iPhone** [Sta10]. **IR** [LSWM16].
irregular [AC16]. **ISAs** [HNTL12]. **ISBN** [Ano15, Ano18, Bro12]. **ISBN-13** [Bro12].

Isolation [ZLB⁺13]. **Issue** [CJ19, DVL13, HL13, HTW14, Puf13, VK12, Fox17a, HTLC10, HGCA11, RHT13]. **iterations** [DD13]. **iterators** [ZLBF14]. **IVE** [CRJ⁺10]. **IVPs** [KS15].

J [KMLS15]. **J2M** [LZYP16]. **J2ME** [GPT12]. **J2ME-Enabled** [GPT12]. **Jaccie** [KS14]. **Jacob** [LYM⁺18]. **Jalapeno** [AFG⁺11]. **JAMES** [DDDF17]. **JaSTA** [HD17]. **JaSTA-2** [HD17]. **Java** [Bro12, Den18, Fox17a, Gve13, HWM11, HTW14, MvH15, Ngo12, Sch13, VK12, AÖ11, KvGS⁺14, PQTGS17, SAdB⁺16, ABC18, ASdMGM14, AST12, AFGG11, AYZI10, AdScdR⁺19, AS14, AAB⁺10, Alt12, Ame13, AdCGGH16, AT16, And14, AFGM15, Ano12, Ano13, ABMV12, AGR12, AGR17, ABCR10, ADI13, ABFM12, AK13, BK12, BH17, BMR14, BH12, BDT10, BVGVEA10, BVEAGVA10, BVGVEA11a, BVGVEAFG11, BVGVEA11b, BVGVEA13, BVGV14a, BVGV14b, BS12, BMDK15, BO11, BO12, BO13, BP19, BCR11, BDGS13, BCD13, BD17, BRGG12, BivdS17, Bla18, BR12, BH10, BR15, BB12, BNP11, BL15, BW12, BA12, BZD17, BSOG12, BMOG12, BKP16, BA17, BJBK12, CIAD13, FGB⁺19, CSZ17, CZ14, CMM17, CWW13, CV14, CS12, CDTM10, CCFB15, CNRG19, CC15, CRJ⁺10, CWGA17, CSF⁺16, CSK17, CCH11, CJ17]. **Java** [CJ19, CYWD19, CDG⁺17, Cle16, CDMR19, CKS18, CSdL16, CCA⁺12, CMM⁺10, CRAJ10, DJLP10, Dan18, DDDF17, DLM10, DLZ⁺13, DVL13, DR10, DHS15, DJB16, DMS11, ECS15, EEK⁺13, ES14, EQT10, Esq11, EABVGV14, Eug13, EV13, ETTD12, ETR⁺15, FLZ⁺18, FRGPLF⁺12, FGR12, Fer13, FFF17, FLL⁺13, FHSR12, Fox17b, FMS⁺11, GLGA19, GMPS12, GMNC13, GvRN⁺11, GYB⁺11, GM12, GBS14, GD12, GBC12, GS11, GS12, Gon11, GMC⁺13, GT10b, GJS⁺13, GJS⁺14, Gri17,

GPT12, GK15, HL13, HD17, HdM17, Has12, HWM10, HWM13, HWM14, HA13, HM12, HTLC10, HKVG14, HTBB16, HH13, HOKO14, HGCA11, Hor11, Hor12, HC13, HC10, HZZK19, HWLM11, HJ12, IHWN12, IN12, IS18, IF16, JC10, JEC⁺12, JQJ⁺16, JJL17, Jen12, JB12, JYKS12, JTO12, JH11, J⁺12, JMB12, JMO14]. **Java** [KHR11, KHM⁺11, KMLS15, KS13, KW10, KW11, KPP⁺18, KM10, KSR14, KSPK12, KDPG18, KS14, KF11, KB11, LSBV16, LSBV17, LTD⁺12, LMK16, LSWM16, LLL13, LT11, LT14, LZYP16, LXP18, LYBB13a, LYBB13b, LYBB14, LZ12, LKP19, Loc13, Loc18, Lon10a, Lon10b, LMS⁺12, LMS⁺13, LO15, LPA13, LWC17, LTK17, LS11, Lyo12, MKZ⁺14, MS13, MME⁺10, MLGA11, MDS⁺17, MCC17, MPM⁺15, MHN19, MZC10b, MKTD17, MM16, MHM10, MAH12, MB12, MCY⁺10, McN19, MGS19, MPR12, MLM17, MLM19, MKK⁺12, MKK⁺13, MSS10, MCW19, MvH15, MT14, MDHS10, NM10a, NCS10, NS12, Nil12a, Nil12b, NG13, NNTK17, NNT⁺19, NM10b, NBB18, Oak14, OOK⁺10, OMK⁺10, OIA⁺13, OUY⁺13, OW16, OJ12, OCFLI14, PS11, PLL⁺18, PdMG12, PTML11, PMTL14, PTHH14, PL12, PiLCH11, PBMH13, PBB19, PPMH15].

Java [PMP⁺16, PQD12, PVH14, PTF⁺15, PS10a, PS10b, PDPM⁺16, Pos19, PSW11, Puf13, PKC⁺13, QLBS17, RD15, RDCP12, RTE⁺13, RTET15, RR14, RS12, RHT13, R⁺13, RBL12, RAS16, RSI12, Rey13, Rez12, RVP11, RLMM15, RRB19, RB15, RvB14, SSL18, SSB⁺14a, SE12, SRB18, SRTR17, STST12, SS12, Sch14, Sch13, Sch10a, SPPH10, SKKR11, SDH⁺17, Sch10b, SSMGD10, SZ10, Set13, SMSB11, SMS⁺12, SM12, SDM12, SWMV17, SW12, SGV12, SEPV19, SKBL11, SD16a, SJPS10, SLS⁺12, SKR17, SS14, SABB19, SP10b, SMP10, Spo16, SBE⁺19, SPP⁺10, SWB⁺15, SSB01, SSB14b, ST15,

SMP19, SPS17, SSG⁺¹⁴, SS19, STS⁺¹³, Sve14, SWF12, TRTD11, TTD⁺¹¹, TTD12, TRE⁺¹³, TLL11, TWX⁺¹⁰, TFPB14, TN19, TWNH12, TNTN12, TGZ17, TJLL18, TKL⁺¹⁵, UR15, UFM15, UPR⁺¹⁸, VSG17, VGRS16, VBDPM16, VBMDP16]. **Java** [VGS14, VBAM10a, VBAM10b, VBMA11, WGF11, Wam11, WZdSOS17, WCST19, WLL19, WBM⁺¹⁰, WK12, WCB16, WN10, WRI⁺¹⁰, WA19, WHV⁺¹³, WHIN11, WZL⁺¹⁸, WBA⁺¹¹, WAB⁺¹¹, WWS13, XHH12, XR13, XMD⁺¹⁷, Xue12, YP10, YKM17, YKA⁺¹⁹, YDF15, ZIvdS17, Zak12, ZP14, ZLCW14, ZHL⁺¹², ZXL16, ZBvdB⁺¹⁹, ZKB⁺¹⁶, ZYY⁺¹⁹, ZWSS15, ZPL⁺¹⁰, ZDS14, dCMMN12, dMRH12, eBH11, hED12, vdMvdMV12, Del13]. **Java-Based** [AFGG11, SLS⁺¹², ST15, SWF12, CJ17, CJ19, HOKO14, JMO14, KS13, KS14, MB12, MCY⁺¹⁰]. **Java-compatible** [ABCR10]. **Java-like** [BDGS13, BCD13, DJLP10, SZ10]. **Java-to-HDL** [OUY⁺¹³]. **Java-to-JavaScript** [LSWM16]. **Java.util.Collection.sort** [dGRdB⁺¹⁵]. **Java/JSP** [Sch10b]. **Java/Scala** [Pos19]. **JavaBean** [MZC10a]. **JavaBIP** [BMSZ17]. **JavaCC** [GN16]. **JavaCOP** [MME⁺¹⁰]. **JavAdaptor** [PKC⁺¹³]. **JavaFX** [FBG17, Top11]. **JavaGI** [WT10, WT11]. **JavaScript** [Ano15, Kiel3, Ric14, Teo13, CH17, AMT17, ACS⁺¹⁴, AHK⁺¹⁵, AZMT18, AGM⁺¹⁷, AMWW15, BNP⁺¹⁸, BCF⁺¹⁴, BBP13, Cec11, Cha18, CGJ⁺¹⁶, CVG⁺¹⁷, CBLFD12, Cho14, CDBD18, CHJ12, Dan18, Dei10, Dei11, DcSG12, DiP18a, DiP18b, DFHF15, FMM⁺¹¹, FM13, FH16, FBH17, FSC⁺¹³, FZ17, FOPZ14, GMS12, Guo17, GGC19, HyG12, Hav11, HBS16, HLSK13, HHSS13, HC11, HOSC16, KR12, KSW⁺¹⁴, KRH16, KT14, Ker15, KFBK⁺¹⁵, Kie10, KBL14, KRR19, KARO12, Kri12, LSWM16, Ler10, LVG10, LPGK14, Liu14, LML17, MTL15, MLT17, MPS12, MGI17, MHL15, MRMV12, MTSH16, Mil13, MM12, MMP15, Mor18, NKH16, NSDD17, OBPM17, PWSG17, PWSG19, PGA18, PLR14, PSR15, PLR18, PKPM19, PDDD17, PKO⁺¹⁵, Por18, Rau14, dARPH⁺¹⁹, RLBV10, RGEV11, RHN⁺¹³, RW17, Ryu16, RPP19, SMN⁺¹⁸, STA18]. **JavaScript** [Ser18, Sev12a, Sev12b, SVB⁺¹⁷, SDC⁺¹², Sta10, Ste10, SR17, SFR⁺¹⁴, TAF⁺¹⁸, TT11, VM15, VP16, VB14b, Wal12, WCST19, WXR16, YW13, Zak18, Zak10, dJM18, BM18, KCD12, Mei14, Ano18, Kie13, Teo12, Teo13]. **JavaScriptCore** [Piz17]. **JaVerT** [SMN⁺¹⁸]. **JAWS** [PKO⁺¹⁵]. **JBIInsTrace** [CZ14]. **JCloudScale** [ZLHD15]. **JCML** [dCMMN12]. **JCSI** [ABFM12]. **JCSP** [WBM⁺¹⁰]. **JDiffraction** [PQTGS17]. **JDK** [SRB18]. **JDMM** [ZP14]. **jDSSAT** [dARPH⁺¹⁹]. **JEqualityGen** [GRF11]. **JET** [LT11]. **JGRIM** [MZC10b]. **Jinn** [LWH⁺¹⁰]. **JIT** [BBF⁺¹⁰, BB17, CMS⁺¹², HWM14, IHWN12, JK13, NED⁺¹³, Ott18, RSB⁺¹⁴, WKJ17, ZYZ⁺¹²]. **JIT-based** [BB17]. **JITs** [KRCH14]. **jMarkov** [CRAT⁺¹²]. **JML** [CRJ⁺¹⁰, TJLL18]. **JML-annotated** [TJLL18]. **JNI** [CDG⁺¹⁷]. **Joe** [Ano18]. **Johnny** [WA19]. **join** [MZC10a]. **Jonge** [Ngo12]. **Journey** [Ryu16]. **joy** [FH11]. **JP2** [SSB^{+14a}]. **JPC** [CMM17]. **JPF** [BA19, WKG17, WCG⁺¹⁸]. **JPR** [WKG17]. **jQuery** [AM14, PIR17]. **JR** [OW16]. **JR-like** [OW16]. **JRE** [CZ14]. **JS** [AHK⁺¹⁵, Por18]. **js-emass** [Por18]. **Js_of_ocaml** [VB14b]. **JSART** [MM12]. **JSCore** [Cha18]. **JSetL** [RB15]. **JSON** [BB17]. **JSormdb** [Dei10]. **JSP** [Sch10b]. **JTabWb** [FFF17]. **JTRES** [HTW14]. **JTRES2011** [RHT13]. **JTRES2013** [Fox17b]. **JTRES2014** [Fox17a]. **judgment** [CSV15]. **Julia** [Dan18, Spo16]. **Juliet** [BB12]. **July** [Bro12, KP15]. **Jump** [WBHN18]. **jungle** [Sew12]. **Jupyter** [Dan18]. **JupyterLab** [Dan18]. **Just**

[DLR16, TN19, KHL⁺13, LMK16, MGI17, TTS⁺10]. **Just-In-Time** [TN19, DLR16, KHL⁺13, LMK16, MGI17, TTS⁺10]. **JVM** [AC16, AFG⁺11, CSS⁺16, Guy14, MS10, PVH14, R⁺13, RRB17, SYZZ⁺14, SV15b, Sub11, WKG17]. **JVMs** [BK14, ZYZ⁺12].

K-Java [BR15]. **kernel** [HDK⁺11]. **Key** [BBB⁺17, DFR13, JB12]. **key-value** [DFR13]. **keynote** [McK16]. **Kirk** [Del13]. **KiWi** [BBB⁺17]. **KJS** [PSR15]. **Knoernschild** [Del13]. **knot** [LBF12]. **know** [DJB16, Gra15, Han15]. **Knowledge** [KSPK12, UMP10]. **known** [Han15]. **Kraken** [Ano14].

Lake [Hol12]. **lambda** [MKTD17]. **lambdas** [UFM15]. **landscape** [Sve14]. **Language** [DLPT14, GJS⁺13, GJS⁺14, GSS⁺18, JC10, KSPK12, MAHK16, NM10b, Sev12b, SS13, WBHN18, ABCR10, CMM17, CSdL16, DAA13, EKR⁺12, Fee16, GSS⁺16, Hos12, HWW⁺15, KRCH14, LWH⁺10, LE16, MDM17, SC16, SZ10, SKR17, SNS⁺14, VB14a, WCG14, WWH⁺17, ZWSS15, dCMMN12]. **language-level** [WCG14]. **Language-Neutral** [WBHN18].

Languages [CSGT17, MSM⁺16, PTHH14, YKM17, AGGZ10, BCD13, CMS⁺12, DTM⁺18, EEK⁺13, ER14, FMBH15, Han15, HBT12, HJS⁺10, KRR⁺14, MSM⁺10, NED⁺13, PULO16, SPKT18, SPY⁺16, Zha12]. **LARD** [WCG14]. **Large** [BA17, AST⁺16, CCFB15, CJ19, LSBV16, LSBV17, MDS⁺17, MCY⁺10, PTF⁺15, WHIN11]. **Large-Scale** [BA17, CJ19, MDS⁺17, MCY⁺10, PTF⁺15, WHIN11]. **Larus** [DD13]. **Latency** [MV16, ETR⁺15, JH11]. **lawn** [CH17]. **laws** [DMS11]. **Layer** [OTR⁺18, SKKR11, Den18]. **layered** [RCR⁺14]. **lazy** [TD15]. **Leading** [MSS10, PGA18]. **leak** [SS14, XR13, YSCX17]. **Leaks**

[And14, RW17, VB18]. **LeakSpot** [RW17]. **lean** [BRGG12, SV15b]. **Learn** [RT14].

Learning

[Dan18, JJCO19, PSJ18, Pau14, RT14, BSAL18, CNS13, KC12, Ano15, Teo13]. **learnt** [GY16]. **Legacy** [KH18, SVB⁺17, CDTM10]. **Legally** [Sam12]. **length** [SMP10]. **Less** [BNE16]. **Lessons** [URJ18]. **Level** [AC16, MGI14, SWU⁺15, YXS⁺19, EKUR10, Hos12, IHWN12, KBL14, LWC17, MGI17, RFBJ14, TTD⁺11, VWJB10, WCG14]. **leveraging** [WCST19]. **Lexical** [GN16]. **Lexicon** [TAF⁺18]. **Libraries** [BK12, RDCP12, BIVdS17, Cho14, EKR⁺12, PMTL14, PLR18, TTD⁺11]. **Library** [CH17, CWGA17, NBB18, OCFLI14, TAF⁺18, WN10, dJM18, CMM17, PMP⁺16, PQTGS17, Pos19, TFPB14, TGZ17]. **License** [GD12]. **Life** [Esq11]. **LIFT** [BTR⁺13]. **Light** [MvH15]. **Light-weight** [MvH15]. **Lightweight** [BW12, KBL14, KKK⁺17, RO12]. **like** [BDGS13, BCD13, DJLP10, PMTL14, SZ10, VGS14, OW16]. **Lime** [ABCR10]. **line** [SV17]. **linearizability** [LTZ14]. **lines** [BTR⁺13, KATS12]. **linguistic** [UR15]. **Linux** [Ric14]. **Linux-basierte** [Ric14]. **Listener** [JH11]. **little** [Han15]. **liveness** [LDL14]. **Load** [GMNC13, PDPM⁺16]. **loaders** [SM12]. **loading** [WGF11]. **Local** [NBB18, DDDF17]. **localised** [SP10b]. **locality** [HJH10, OJ12]. **localize** [ZZK13]. **location** [NCS10]. **Locators** [SDM12]. **Lock** [FC11, NM10a, NFV15, UMP10]. **Lock-free** [FC11, NFV15]. **Locking** [GGRSY17, JTO12, GGRSY14, GGRSY15, YKA⁺19]. **locks** [SPS17]. **Logging** [CJ19, CJ17]. **Logic** [ZLNP18, GMS12, Pha18, SD16b]. **loop** [DD13, HWI⁺12, PLR18]. **Loops** [RD15, LLL13]. **loss** [WHIN11]. **Low** [ETR⁺15, GM12, SWU⁺15, WCG14, ZHCB15, ZFK⁺16, BCR13, XMA⁺10].

Low-Budget [GM12]. **Low-latency** [ETR⁺15]. **Low-level** [WCG14]. **Low-overhead** [ZHCB15, ZFK⁺16]. **low-utility** [XMA⁺10]. **lunch** [DTLM14].

m [MZC10b]. **m-JGRIM** [MZC10b]. **M2M** [Pau14]. **Machine** [JJCO19, LYBB14, Ame13, CBLFD12, KS13, KC12, McM11, Piz17, SSMGD10, WGF11, WHV⁺13, BZD17, Cle16, LYBB13a, LYBB13b, LTK17, PTHH14, RRB19, SSB⁺14a, Sch13, Set13, SMSB11, SGV12, SSB01, SSB14b, UR15]. **Machine-Learning** [JJCO19]. **Machines** [AGR12, GTS⁺15, JK13, KRCH14, NK10]. **macros** [DFHF15]. **Magic** [SP10b]. **magic-sets** [SP10b]. **Magnitude** [BNE16]. **major** [Ano12]. **Making** [Loc13, Sta10, PS11]. **malformed** [SHU16]. **Malicious** [KCD12, AFGM15]. **malleable** [MZC10a]. **malware** [CSK17]. **Managed** [MAHK16, NFN⁺18, NWB⁺18, BM14, CBGM12, GTL⁺10, ZIvdS17]. **Managed-Language** [MAHK16]. **Management** [OTR⁺18, Pau14, YPMM12, AHK⁺15, BVGV14a, BGS⁺13, EKUR10, HB13, KCP⁺17, KB17, MLM17, Nil12b, PCL14, SWB⁺15, Tar11, WGW⁺11]. **manipulating** [KRR19, YS10]. **Manipulation** [MS14]. **manual** [KCP⁺17, KPP⁺18]. **many** [GTSS11, SV18]. **Map** [BBB⁺17]. **mapped** [SV15b]. **Mapping** [LTD⁺12, UR15]. **MapReduce** [LZYP16, RFRS14, SKBL11]. **maps** [NFV15, SV18]. **mashup** [ETR12]. **Masses** [BMSV18, BSO18, IvdS16]. **Massive** [BMSV18]. **Massively** [NBB18]. **mastering** [Sub11]. **Math.Js** [dJM18]. **Mathematical** [BW12]. **Mathematics** [dJM18].

MATLAB [Alt12, FBH17, PMTL14, VF10, Has12]. **MATLAB-like** [PMTL14]. **matrix** [HD17, TGZ17]. **matters** [DJB16]. **Maxine** [WHV⁺13]. **MCAPL** [Den18]. **me** [LCW18, CMM⁺10, GM12, XHH12].

ME-Based [GM12]. **mean** [Rub14]. **Means** [SS19]. **Measurement** [YPMM12, YW13]. **Measurement-Based** [YPMM12]. **Measuring** [DW10, DTLM14, Gra15, JH11]. **mechanical** [ZZK13]. **mechanised** [BCF⁺14]. **Mechanising** [Loc18]. **Media** [Bro12]. **meets** [KHL⁺13]. **Memento** [CPST15]. **memoization** [TPG15]. **memories** [ASME18]. **Memory** [BG17, JYKS12, MSM⁺16, NWB⁺18, OTR⁺18, SS14, ST15, WZL⁺18, AHK⁺11, AHK⁺15, AGGZ10, BSMB16, BFS⁺18, CWW13, DLZ⁺13, DVL13, FC11, FF10, GYB⁺11, HHB⁺14, HB13, KHL⁺17, KCP⁺17, KB17, Loc13, MSM⁺10, MLM17, Nil12b, OMK⁺10, RW17, SMS⁺12, SEPV19, SMN⁺12, SWB⁺15, SV15a, Tar11, TVD10, VB18, WGW⁺11, XR13, YSCX17, ZP14, ZHCB15, ZBB17]. **memory-performance** [SEPV19]. **MemSAT** [TVD10]. **merge** [ABC18]. **Mergesort** [LL15]. **merging** [SZZ⁺19, TLX17]. **Message** [KF11, ETTD12, TRTD11, TTD12, UR15]. **message-passing** [ETTD12, TRTD11, TTD12, UR15]. **messages** [eBH11]. **meta** [MD15, SZ10]. **meta-circular** [SZ10]. **meta-compilation** [MD15]. **metadata** [DVL13, WCST19]. **MetaFJig** [SZ10]. **metaheuristics** [DDDF17]. **metaprogramming** [PS11]. **Method** [AC16, BVGVEAFG11, BA19, GD12, AST12, AJL16, HMDE12, SS19, SS16, VBMDP16, ZYY⁺19]. **Method-Level** [AC16]. **Methods** [MM16, Pau14, VBZ⁺18, Bra14, GRF11, LSBV16, LSBV17, SSL18]. **Metrics** [KB11, JK11, SSK13, Sch13]. **Metriken** [Sch13]. **Microscopic** [RXK⁺17]. **Microservices** [KH18, LSCPE18]. **Microsoft** [Ano13]. **Middleware** [RTE⁺13, AdSCdR⁺19, HOKO14, HWLM11, MZC10b]. **middleweight** [IF16, MT14]. **midstream** [SSG⁺14]. **Migrating** [AST⁺16, CDTM10, FGB⁺19]. **Migration** [OwKPM15, Fee16]. **migrations** [TFPB14].

Miniboxing [UTO13]. **minimal** [CNS13]. **mining** [DRN14]. **Mint** [WRI⁺10]. **minute** [DHS15]. **minutes** [BTR⁺13]. **misconfigurations** [MCC17]. **Mismatch** [YCYC12]. **misses** [IN12]. **Missions** [WCB16]. **Mistakes** [BA17]. **Mitigating** [BGS⁺13, KC12]. **mixed** [CL17]. **Mobile** [GM12, GPT12, LYM⁺18, MV16, XHH12, GMNC13, GGC18, KF11, MZC10b, MTSH16]. **Mock** [SABB19]. **Model** [Bul18, CSF⁺16, CDG⁺17, CCA⁺12, DLR16, FSK12, JJCO19, JYKS12, Loc18, MSM⁺16, MCC17, MV16, BVGVEA11a, FGB⁺19, CHM13, CWW13, CV14, CS12, CSKB12, DLZ⁺13, FLZ⁺18, GY16, HAW13, Loc13, LSSD14, MLT17, MSM⁺10, PSW11, RR14, RBV16, RAS16, RDF15, SMN⁺12, SSG⁺14, SS19, Tai13, VWJB10, ZP14, ZXL16]. **Model-Aware** [JYKS12]. **Model-based** [MCC17, PSW11]. **model-driven** [FGB⁺19, CHM13]. **Modeling** [GBC12, JC10, KSPK12, LDL14, Rey13, SM12, CRAT⁺12, SKR17, TLX17, ZIvdS17]. **Modelling** [CSZ17]. **Models** [CC15, PE11, ZLCW14, AGR17, HHB⁺14, TVD10, ZBB17]. **Modern** [LMZP19, FIF⁺15, Hav11, JK13, KB17, Mor18, Teo13, WGW⁺11, ZDK⁺19]. **Modernization** [KH18, Nil12a]. **modes** [BP19]. **Modified** [GT10a]. **Modular** [IvdS16, LN15, RDCP12, AACR18, MRA⁺17, RO12]. **Modularisation** [SDM12]. **modularity** [Del13, SPAK10]. **module** [KR12, dARPH⁺19]. **Modules** [Bla18, PiLCH11]. **monad** [GSD⁺15]. **MongoDB** [Guo17]. **monitor** [STA18]. **Monitoring** [AGR12, MRF18, CMM⁺10, DJLP10, ES14, KF11]. **Monitors** [BLH12, HM12]. **Morgan** [Ano18]. **mori** [CPST15]. **movement** [NCS10]. **MPI** [RAS16, SZ11, VGRS16]. **MPI-based** [SZ11]. **MPJ** [JQJ⁺16, TTD12]. **MrCrypt** [TLMM13]. **MS** [FH16]. **Multi** [GSS⁺18, JTO12, RTE⁺13, BGS⁺13, DSEE13, Fee16, FC11, GSS⁺16, IHWN12, MS10, Puf13, SE12, SKBL11, SV18, TRTD11, Tar11, WRI⁺10, YKA⁺19]. **Multi-Core** [RTE⁺13, MS10, TRTD11]. **multi-cores** [SKBL11]. **multi-engine** [Tar11]. **multi-granularity** [YKA⁺19]. **Multi-Language** [GSS⁺18, Fee16, GSS⁺16]. **multi-level** [IHWN12]. **multi-maps** [SV18]. **multi-processor** [Puf13]. **multi-stage** [WRI⁺10]. **Multi-threaded** [JTO12, DSEE13, SE12, Taf13]. **multi-threats** [BGS⁺13]. **multi-version** [FC11]. **Multicore** [ASV⁺16, CCH11, MKG⁺17, SE12, SSMGD10, TWX⁺10]. **multilevel** [JK13]. **multiphase** [GvRN⁺11]. **Multipatform** [ZKB⁺16]. **Multiple** [AF12, ASF17, HLSK13, CSV15, DD13]. **multiplexing** [BVGVEAFG11]. **Multiprocessing** [VGS14]. **multiprocessor** [PS10b, PWA13, SPS17]. **Multiprocessors** [KW11, RS12]. **Multithreaded** [KKW14, Loc18, SR14a, BNS12, DJLP10, Fer13]. **Multithreading** [CCH11]. **multivariate** [AÖ11]. **multiway** [YKA⁺19]. **Mungo** [KDPG18]. **MuscalietJS** [RCR⁺14]. **Mutagenic** [YCYC12]. **mutants** [FRC⁺17]. **Mutation** [MMP15, KPP⁺18]. **mutators** [AHK⁺11]. **MySQL** [Ano15].

Names [SRTR17]. **Naming** [STST12]. **Native** [JQJ⁺16, LT11, LT14, KFBK⁺15, STS⁺13]. **Natural** [LL15]. **naturalness** [HBG⁺16]. **NDetermin** [BENS12]. **nested** [CHM16, ZLB⁺13]. **Netflix** [Liu14]. **Network** [CC15, GGC18, GGC19, RR14]. **Networking** [Hol12]. **Networks** [AFGG11, ETR⁺15, ZYY⁺19]. **neural** [ZYY⁺19]. **neuromorphic** [HNTL12]. **Neutral** [WBHN18]. **Next** [YWW⁺18, CRJ⁺10, CMM⁺10]. **Next-Generation** [YWW⁺18]. **NG2C** [BOF17]. **NGS** [YWW⁺18]. **NGS-FC**

[YWW⁺18]. **Nicolai** [Bla18]. **Nixon** [Ano15]. **No** [BVGVEA10]. **No-Heap** [BVGVEA10]. **NoCs** [PWA13]. **Node** [HC11, BJBK12]. **Node.js** [BSMB16, MTL15, Ano14]. **nodes** [DRN14]. **Nominal** [BO13]. **Non** [BVGVEA11b, BSOG12, GGZ⁺15, TD17, WZL⁺18, YKM17, MZC10a, OMK⁺10, SSL18, ZP14]. **Non-Adequate** [GGZ⁺15]. **non-cache-coherent** [ZP14]. **non-cloned** [SSL18]. **Non-equivocation** [TD17]. **Non-functional** [BVGVEA11b]. **non-intrusively** [MZC10a]. **Non-Java** [YKM17, OMK⁺10]. **Non-termination** [BSOG12]. **Non-volatile** [WZL⁺18]. **Non-Volatility** [WZL⁺18]. **Nonblocking** [RTET15, SP10a]. **Nondeterministic** [RB15, BENS12]. **noninterference** [IF16]. **Nopol** [XMD⁺17]. **Normalization** [ADJG19]. **NoSQL** [DFR13]. **Notation** [Sev12a]. **Novel** [NK10, MZC10b]. **November** [Hol12]. **Novice** [BA17]. **Novices** [RT14]. **null** [AT16]. **NullPointerExceptions** [BSOG12]. **NUMA** [GTS⁺15]. **NumaGiC** [GTS⁺15]. **number** [PPMH15, SLF14]. **Numbers** [Jaf13, AJL16, Wal12]. **Numerical** [HCLH18, KS15, KFBK⁺15, PQTGS17]. **NXT** [SWF12].

Obfuscated [KCD12]. **obfuscation** [CCFB15]. **obfuscations** [CSK17]. **Object** [CSGT17, GLGA19, GS11, KB11, LZ12, NWB⁺15, PTHH14, PiLCH11, RC17, Sev12a, SW12, AST⁺16, BZD17, DDDF17, FMBH15, IvdS16, KRR19, LX19, MME14, MHBO13, RDF15, UJR14, VM10, WM10, ZCdSOvdS15, Zha12, ZDS14, hEYJD12]. **Object-Bounded** [NWB⁺15]. **object-constraint** [FMBH15]. **object-manipulating** [KRR19]. **Object-Oriented** [GS11, KB11, RC17, PTHH14, AST⁺16, DDDF17, MHBO13, VM10, ZDS14, hEYJD12]. **object-sensitive** [LX19]. **Objective** [Sta10]. **Objective-C** [Sta10]. **Objects** [BS12, RKN⁺18, AFGM15, MHL15, SK13, SABB19, WXR16, BVGVEA10]. **Observations** [AAB⁺10]. **OCaml** [Cle16]. **OCaml-Java** [Cle16]. **OCTET** [BKC⁺13]. **odeToJava** [KS15]. **offloading** [ZHL⁺12]. **on-demand** [ZHL⁺12]. **On-Stack** [WBHN18]. **On-the-fly** [URJ18, UJR14]. **once** [WSH⁺19]. **one** [SV18]. **ones** [AST⁺16]. **Online** [NG13, GGC18, GGC19, HCV17, NK10]. **only** [NM10a]. **Ontology** [KSPK12]. **OoOJava** [JhED11]. **Open** [BSA14, GD12, ABC18, CJ17, CJ19, EKUR10, JK11, Tai13, VGRS16]. **Open-Source** [BSA14, ABC18, Tai13]. **OpenJDK** [BFS⁺18, CHM16, dGRdB⁺15]. **OpenMP** [VGS14]. **OpenMP-like** [VGS14]. **operating** [HDK⁺11]. **operation** [KKW11]. **operations** [MHN19, TABS12, TGZ17]. **Operator** [PQD12]. **opportunities** [TPG15]. **Optimal** [AD16, JCMM19, SK12, ELW15]. **optimale** [Sch13]. **optimally** [BGS⁺13]. **optimisation** [PPS16]. **optimistic** [WGF11]. **Optimization** [LTD⁺12, RRB19, YKM17, AFG⁺11, BDB11, DDDF17, JMO14, KS13, KC12, NG12]. **Optimizations** [DR10, BB17, CPST15, DS16, NG13, SAdB⁺16]. **Optimized** [PKPM19]. **Optimizing** [LYM⁺18, SV15b, WZK⁺19, YRHBL13, HWW⁺15, KRH16, MD15, ZLBF14]. **optional** [CMS⁺12]. **Oracle** [LMS⁺12, Sam12]. **ORB** [OUY⁺13]. **Orchestrating** [CDBD18]. **Order** [SGD15, SMP19, JhED11, KT15, SPKT18, TD15]. **ordering** [KC12]. **Orders** [BNE16]. **ordinary** [MZC10a]. **O'Reilly** [Ano15, Bro12]. **Oriented** [ABMV12, BH10, GLGA19, GS11, KB11, LYM⁺18, RC17, AST⁺16, DDDF17, EABVGV14, MHBO13, PTHH14, RVP11, VM10, VBAM10b,

WBA⁺¹¹, ZDS14, hEYJD12]. **OSck** [HDK⁺¹¹]. **OSGi** [BVGVEA13, GD10, Del13]. **OSS** [ZMM⁺¹⁶]. **other** [EKUR10, KS13]. **out-of-order** [JhED11]. **out-of-thin-air** [OD18]. **output** [KM10]. **Over-exposed** [VBDPM16]. **overhead** [BCR13, ZHCB15, ZFK⁺¹⁶]. **overlap** [ADJG19]. **overlay** [CDTM10]. **Overloading** [PQD12]. **overview** [Nil12b]. **own** [MPM⁺¹⁵]. **Ownership** [ZPL⁺¹⁰, BDGS13, DDM11].

PaaS [ZLHD15]. **Package** [SLS⁺¹², CRAT⁺¹², MB12, OW16, AK13]. **Packages** [PiLCH11]. **PackedObjects** [YKA⁺¹⁹]. **panic** [Ano12]. **Paper** [DDDF17, PDPM⁺¹⁶, Cha18, SV15a]. **paperback** [Ano18]. **Papers** [DVL13, HL13, LMK16, Puf13]. **Parallel** [DS16, Esq11, LLL13, LHR19, MKG⁺¹⁷, NKH16, NBB18, QSaS⁺¹⁶, RD15, RS12, AACR18, BP10, BBP13, BSMB16, CRP⁺¹⁰, MGS19, NG12, NG13, PPMH15, Sie10, SZ11, TTD12, Taf13, VYY10, BKP16, WN10]. **Parallelisation** [GS11]. **Parallelism** [NKH16, BENS12, HHSS13, MZC10a, RHSD15, TWL12, ZLB⁺¹³]. **Parallelization** [DTM⁺¹⁸, SS16, YRHBL13]. **parallelize** [LPA13]. **Parallelizing** [NKH16, hEYJD12]. **parameters** [GBS14]. **Parametric** [AGGZ10, PULO16, UTO13]. **Parlog** [Bla18]. **Part** [KP15]. **ParTejas** [MKG⁺¹⁷]. **Partial** [CSK17, JB12, SGD15, SMP19, BS13, LX19, MD15, TD15, WGF11, WWH⁺¹⁷]. **Partial-Order** [SGD15, TD15]. **Partially** [BLH12, BCR11]. **Partitioning** [AD16, BS12]. **party** [FOPZ14, LVG10]. **passing** [ETTD12, TRTD11, TTD12, UR15]. **Path** [SGD15, AZLY18, DD13, HHSS13, SMP10]. **path-based** [AZLY18]. **path-length** [SMP10]. **Path-Sensitive** [SGD15]. **pathfinder** [KPP12, CS12, MPR12, NNTK17, NNT⁺¹⁹, PdMG12, SM12, vdMvdMV12, Den18, RR14, SMP19]. **patient** [EKUR10]. **patient-level** [EKUR10]. **pattern** [GSD⁺¹⁵, SAdB⁺¹⁶]. **Patterns** [RC17, BVGVEA11b, Del13, Ste10]. **PayPal** [Ano14]. **PCR** [YCYC12]. **PCR-RFLP** [YCYC12]. **PE** [JB12]. **PE-KeY** [JB12]. **perceptible** [JH11]. **Perfect** [SLE⁺¹⁷]. **Perform** [LMZP19]. **Performance** [AACR18, CSZ17, CCH11, DR10, GBC12, Hol12, HJ12, MSM⁺¹⁶, Oak14, OCFLI14, QSaS⁺¹⁶, RVT18, TRE⁺¹³, TPG15, THC⁺¹⁴, URJ18, VP16, WWG⁺¹⁸, WN10, ACS⁺¹⁴, AAB⁺¹⁰, BRGG12, BRWA14, CBGM12, Dei11, GSS⁺¹⁶, HWI⁺¹², IRJ⁺¹², JH11, Ngo12, ODL15, PSNS14, SE12, SEPV19, TTD⁺¹¹, TWX⁺¹⁰, WFF18, WHIN11, WWH⁺¹⁷, Zak10]. **performance-guided** [PSNS14]. **permission** [HBT12, SNS⁺¹⁴]. **permits** [PPS16]. **Persistence** [LZ12]. **Perspective** [YHY13]. **Pert** [LZ12]. **pervasive** [MHM10]. **pgs** [Ano18]. **PHALANX** [VYY10]. **phase** [KC12]. **phase-ordering** [KC12]. **phone** [GMNC13]. **phoneME** [RDPC12]. **Phosphor** [BK14]. **PHP** [Ano15, Ott18, TTS⁺¹⁰]. **Phynx** [EKUR10]. **Physics** [Zak18, JEC⁺¹²]. **pickler** [MHBO13]. **pickles** [MHBO13]. **PINs** [MTSH16]. **pipeline** [LPA13]. **pipelines** [CRP⁺¹⁰]. **Pivot** [AD16, MRF18]. **PL** [FGB⁺¹⁹]. **PL/SQL** [FGB⁺¹⁹]. **place** [DVL13]. **Plan** [DLZ⁺¹³]. **Platform** [AFGG11, PE11, WBHN18, BD17, CRJ⁺¹⁰, CMM⁺¹⁰, GD10, GMC⁺¹³, MKZ⁺¹⁴, PWA13, YP10]. **Platforms** [DR10, Has12, BP10, JMO14, KSR14]. **PLDI** [FLL⁺¹³]. **pluggable** [MME⁺¹⁰]. **Point** [Jaf13, AJL16]. **Pointer** [LHR19, LTMS18, LX19, TL17]. **Pointers** [RKN⁺¹⁸, AT16]. **Points** [BK12, SDC⁺¹²,

BSAL18, DHS15, SBK13, TLX17].
Points-To [SDC⁺12, BSAL18, DHS15, SBK13, TLX17].
Policies [FHSR12, MPS12, BVGV14a].
policing [DW10]. **Policy** [YPMM12, JK13].
Policy-Driven [YPMM12]. **polyglot** [EV13]. **Polymorphic** [Zha12].
polymorphism [GMT14, PULO16, UTO13].
polynomial [Pos19]. **POPL** [BCR13].
Popular [Has12, SRB18].
Popular-but-Seemingly-Dissimilar [Has12]. **portable** [BM18, LTK17, RGM13].
portal [MCY⁺10]. **Power** [MV16, Pau14, BRGG12, CBGM12, Kie13, THC⁺14]. **pp.** [Bro12]. **PQL** [RSI12]. **Practical** [AMT17, JACS10, SLES15, VS10, WBHN18, WWH⁺17, FGB⁺19, FIF⁺15, WT10].
Practice [HGCA11, AS14, EKUR10, LWC17, TRE⁺13]. **practices** [CJ17, YW13].
Pragmatic [Ano18, RO12]. **pre** [SBK13].
pre-processing [SBK13]. **Precise** [PIR17, TN19, XR13, BHSB14, CVG⁺17, HyG12, PLR18, PG12, RGM13, TLX17, WFF18].
Precise-Yet-Efficient [TN19]. **Precision** [LTMS18, LX19, RSB⁺14].
Precision-guided [LTMS18].
Precision-preserving [LX19]. **Predicate** [PL12]. **predictable** [LTK17]. **Predicting** [BSA14, RVK15, RVK19, AZLY18].
prediction [ZWZ⁺14]. **predictive** [RGB18].
Presence [RK19, ZBB15]. **preserving** [AK13, LX19]. **pressure** [DTLM14].
pretenuring [BOF17]. **Preventing** [AFGM15, MSSK16]. **prevention** [VS11].
Price [Ano18]. **Primer** [YCYC12].
primitives [BJBK12]. **Principles** [HGCA11, JEC⁺12, VM10]. **Printf** [ALB⁺19]. **Printing** [AJL16].
Prioritization [LMZP19, MT13].
Prioritized [NGB16]. **Priority** [ASV⁺16, HM12]. **Privacy** [And14].
Proactive [CL17, BGS⁺13]. **PROB** [YP10].
Probabilistic [RBV16, GY16, ZWZ⁺14].
Problem [YHY13, ZW13, J⁺12, KC12].
problem-solution [J⁺12]. **problems** [TPG15]. **Proceedings** [Hol12, KP15].
Process [SK12, AGR17, GT10a]. **Processes** [BMDK15, CDBD18]. **Processing** [LLL13, WN10, SBK13, SSG⁺14, UJR14, ZDK⁺19].
Processor [TKL⁺15, Puf13, SPPH10, SMN⁺12].
Processors [ASV⁺16, MKG⁺17].
producers [DAA13]. **product** [BTR⁺13, KATS12, KvRHA14, SV17].
product-based [KvRHA14]. **production** [RGM13]. **professionals** [JACS10]. **profile** [Ott18, VSG17, WKJ17]. **profile-guided** [Ott18]. **profiler** [DTLM14]. **profilers** [MDHS10]. **profiling** [DD13, JH11, KRH16, NK10, RCB17, SSB⁺14a, STY⁺14, THC⁺14, WLL19, XR13, ZBB15]. **Program** [BGK17, JJCO19, KKW14, RVK15, RT14, WCG⁺18, ZKB⁺16, AZLY18, AÖ11, DS16, GMS12, HCN14, JLL17, JWMC15, KM10, KMZN16, MKZ⁺14, NS13, RKHN18, RVK19, Sch10a, SPY⁺16, Tai13, TABS12, UPR⁺18, WGF11, ZMG⁺14].
Programmable [OA17, AYZI10].
Programmers [Esq11, RLMM15, Rau14].
Programming [AFGG11, ABMV12, BCR11, Bro12, BA17, DLPT14, GLGA19, HWM11, HGCA11, Kö10, KSPK12, LM15, McK16, NM10b, OAC18, PTML11, RSI12, RB15, SS13, Sub11, Alt12, AMWW15, BCvC⁺13, BMR14, BSMB16, BRWA14, CL17, ECG12, EV13, FMBH15, Han15, HA13, Hav11, Lew13, MSM⁺10, MGS19, MvH15, OW16, PTF⁺15, RVP11, RFBJ14, SNS⁺14, SGG⁺17, TB14, UFM15, VWJB10, VBAM10b, Wam11, WRI⁺10, WBA⁺11, ZWSS15]. **Programs** [AGR12, BH17, BR12, BMOG12, CYWD19, GS11, JB12, LTD⁺12, PSJ18, STST12, SS12, SDM12, SR17, TN19, XMD⁺17, ZLCW14, AACR18, ASdMGM14, AZMT18, AdCGGH16, BA12, BNS12, CDBD18, DJLP10, ECS15, ES14, EP14, Fer13, HL13, IN12, KRR19, LKP19, LMS⁺13, LO15,

LPA13, MHN19, MRMV12, MCW19, NG12, OJ12, PL12, RR14, RAS16, RLBV10, SMS⁺12, SZ11, SJPS10, SHU16, Taf13, WCST19, YS10, YSCX17, dCMMN12, hEYJD12]. **Progress** [WCG⁺18, Sie17, ZHCB15]. **Project** [Wan11]. **Projects** [LMZP19, ZMM⁺16, ABC18, CJ17]. **Projekte** [Ric14]. **Prolog** [CMM17, Tar11]. **promises** [AZMT18, MLT17]. **promising** [KHL⁺17]. **Proof** [LL15]. **Proofs** [BMOG12]. **propagation** [IvdS16, PQTGS17]. **Properties** [BO11, CYWD19, RVK15, SS12, AZLY18, FWDL15, RVK19, SD16b, YS10]. **Protecting** [MPS12]. **Protein** [YHY13]. **Protocol** [GM12, FGR12]. **protocols** [KDPG18, PS10a]. **prototyping** [PWA13]. **Provably** [AdCGGH16, DJLP10, PS10a]. **providing** [OW16]. **proving** [AGH⁺17, Taf13]. **Proxies** [VM10, Eug13, KT14]. **PSE** [KS15]. **pseudorandom** [PPMH15, SLF14]. **PT** [MGS19]. **Published** [Ano18, LSBV17]. **pure** [SS16]. **Purely** [RSI12, NfV15, SV18]. **Purely-Declarative** [RSI12]. **purely-functional** [NFV15]. **Purity** [NSDD17, HMDE12]. **purpose** [AdSCdR⁺19]. **Putting** [BNP⁺18]. **PYE** [TN19]. **Python** [Ric14, Dan18].

QoS [YPMM12]. **qualitas** [TMVB13]. **Qualitas.class** [TMVB13]. **Quality** [BNP11, CCFB15, WKJ17]. **Quantitative** [CPV15, GYB⁺11, MRA⁺17, PMTP12]. **queries** [GK15, MRA⁺17, SGG⁺17]. **query** [FWDL15]. **query-** [FWDL15]. **questions** [KM10]. **Quicksort** [AD16].

R [CH17, Dan18, KMMV14, NL14, SLS⁺12, Vit14]. **Race** [BH10, EP14, RD15, AMT17, BGOS18, EQT10, HHB⁺14, RGB18, WFF18]. **race-aware** [EQT10]. **RacerD** [BGOS18].

racers [FF10, WCG14, XXZ13]. **Racket** [YK14]. **racy** [SRJ15]. **Rady** [Teo12]. **Rails** [Teo12]. **Range** [BS12]. **Ranged** [FSK12]. **rapid** [PWA13]. **rationing** [ASME18]. **raw** [HH13]. **rays** [SBF⁺10]. **RCDC** [DNB⁺12]. **RDMA** [ETR⁺15, IRJ⁺12]. **RDMA-based** [IRJ⁺12]. **RDMA-enabled** [ETR⁺15]. **re** [NCS10]. **re-location** [NCS10]. **Reachability** [NS13]. **React** [HOSC16]. **reaction** [SRB18]. **reactive** [BCvC⁺13, MvH15]. **read** [NM10a]. **read-only** [NM10a]. **Reading** [Jaf13]. **ready** [RHS15]. **Real** [BVEAGVA10, BBB⁺17, Fox17b, HTW14, KW11, Nil12a, Pau14, SLES15, SLE⁺17, VK12, BCR13, BVGVEA10, BVGVEA11a, BVGVEA11b, BVGVEA13, BVGV14a, BVGV14b, CRAJ10, DW10, EABVGV14, Fox17a, GMC⁺13, HTLC10, KHM⁺11, KPHV11, KvGS⁺14, KW10, KPP⁺18, KSR14, LTK17, MDS⁺17, PS10b, PZM⁺10, PSW11, Puf13, RHT13, SP10a, Sie10, SPS17]. **Real-Time** [BVEAGVA10, BBB⁺17, Fox17b, HTW14, KW11, Pau14, SLES15, SLE⁺17, VK12, Nil12a, BCR13, BVGVEA10, BVGVEA11a, BVGVEA11b, BVGVEA13, BVGV14a, BVGV14b, CRAJ10, DW10, EABVGV14, Fox17a, GMC⁺13, HTLC10, KHM⁺11, KPHV11, KvGS⁺14, KW10, KSR14, LTK17, PS10b, PZM⁺10, PSW11, Puf13, RHT13, SP10a, Sie10, SPS17]. **realtime** [OUY⁺13]. **Reasoning** [LN15, Sun18, ABK⁺16, MLT17, RKHN18]. **Recap** [BlvdS17]. **recipes** [J⁺12]. **recommendations** [LMS⁺13]. **recompilation** [NED⁺13]. **Reconfigurable** [OUY⁺13, STY⁺14, OIA⁺13]. **reconstruction** [LSWM16]. **Recovering** [CRAJ10]. **Reducing** [MV16, WHIN11]. **Reduction** [BO12, MSS19, SMP19, TD15]. **redundant** [HLO15]. **reengineering** [FGB⁺19]. **Refactoring** [AS14, STST12, VBZ⁺18, ZHL⁺12, FMM⁺11, FM13, SZZ⁺19].

refactoring-aware [SZZ⁺19]. **Reference** [Sch14, Sun18, UJR14, HMDE12]. **refinement** [GY16, JLP⁺14, KSW⁺14, MCW19, SNCM19, ZMG⁺14, ZFK⁺16]. **Reflexes** [SPP⁺10]. **region** [Ott18]. **region-based** [Ott18]. **regions** [AC10]. **register** [YZY⁺12]. **register-based** [YZY⁺12]. **Regression** [MM12]. **Regular** [CYWD19, NM10b, PIR17]. **reification** [RRB17]. **Reified** [GBS14]. **Reim** [HMDE12]. **ReImInfer** [HMDE12]. **relation** [TD15]. **relational** [MLGA11]. **relationship** [LSBV16, LSBV17, SH12]. **relaxed** [DNB⁺12, KHL⁺17, PPS16]. **relaxed-memory** [KHL⁺17]. **Release** [Ano14]. **reliability** [HWLM11]. **reliable** [LMS⁺13]. **relying** [IN12]. **Remodularizing** [OJ12]. **Remote** [BVGVEA10, BVGV14a, BJBK12, GSD⁺15, SS19, BVGVEAFG11]. **removal** [MRMV12, WGF11]. **removing** [PLR14]. **rename** [FM13]. **Repair** [SEK⁺19, XMD⁺17, ZLNP18, MDS⁺17, SHU16]. **repeatability** [Vit14]. **Replacement** [WBHN18, BCD13]. **Replay** [BH12]. **Replaying** [WKG17]. **replication** [CJ17, UIY10]. **replication-based** [UIY10]. **report** [CBLFD12, Sch10a]. **Reports** [OW16]. **repository** [HC10]. **representation** [AZLY18]. **reproducibility** [Vit14]. **reproduction** [SR14b]. **Requirements** [MSS19, AGGZ10]. **ResAna** [KvGS⁺14]. **Research** [SR17, TRE⁺13, CRJ⁺10, CBLFD12, EKUR10, Rub14, VBMDP16, Vit14]. **RESOLVE** [Sun18]. **Resource** [BVG14a, WZK⁺19, YPMM12, ADI13, ES14, KvGS⁺14, KSR14, SGV12]. **resource-aware** [SGV12]. **resource-based** [ADI13]. **responsive** [SPP⁺10]. **responsiveness** [PSNS14]. **restart** [CNS13]. **Restructuring** [RC17]. **results** [OD18]. **Retention** [ZMM⁺16]. **Rethinking** [LHR19, Xue12, RCR⁺14]. **retrofitted** [TTS⁺10]. **retrofitting** [LPGK14]. **Reusability** [Tai13]. **reusable** [HC10, MME14]. **reuse** [WR10]. **Reusing** [PKPM19]. **Reverse** [CCA⁺12, MLM17, MLM19]. **Review** [Ano15, Ano18, Bro12, Del13, Gve13, Kie13, Ngo12, Teo12, Teo13, EKUR10]. **Revisited** [Mei14, Gon11]. **rewriting** [GGC19, HLO15]. **rewriting-based** [GGC19]. **RFID** [AYZI10]. **RFLP** [YCYC12]. **richer** [CV14]. **rigor** [Vit14]. **Rigorous** [AGR17]. **rings** [Pos19, Pos19]. **Rise** [DiP18a]. **risk** [MPM⁺15]. **River** [HHSS13]. **RJ** [OW16]. **RMI** [SS19]. **Road** [RXK⁺17, SWU⁺15]. **Robin** [Ano15]. **Robotic** [DiP18b, LM15]. **Robots** [SWF12]. **Robust** [VM15, VDV17, MKZ⁺14, SGV12, VM10]. **Rod** [Teo12]. **ROM** [MLM19]. **row** [Lei17]. **row-typed** [Lei17]. **RTSJ** [ZW10]. **Rubah** [PVH14]. **Ruby** [Teo12]. **Rule** [YPMM12, QLBS17]. **Rules** [CCA⁺12, HLO15, PTRV18]. **run** [WAB⁺11]. **run-time** [WAB⁺11]. **Running** [HC11, TWX⁺10, YK14]. **runs** [FIF⁺15]. **Runtime** [BLH12, CMM⁺10, GSS⁺18, MAHK16, MSS10, NWB⁺15, OCFLI14, XMA⁺14, BRGG12, EQT10, GTL⁺10, GSS⁺16, LMK16, MS10, OOK⁺10, PKC⁺13, RO12, STY⁺14, TWSC10, VBAM10a, WLL19, YRHBL13, dCMMN12]. **runtimes** [BM14, CSV15, RCR⁺14, WWH⁺17]. **ryu** [ALB⁺19].

S [Gve13]. **Safe** [Eug13, GvRN⁺11, JTO12, Loc18, MPS12, RSF⁺15, SWB⁺15, WAB⁺11, HJS⁺10, HAW13, KHR11, KMLS15, KCP⁺17, Loc13, RDP16, WWS13]. **Safety** [MCW19, RS12, SDH⁺17, WCB16, ZLCW14, AGR17, EKUR10, GMC⁺13, Nil12b, PG12, SD16b, Taf13, YS10, ZBvdB⁺19, CWW13, HL13, LWC17, WK12]. **Safety-Critical** [MCW19, WCB16, ZLCW14, RS12, SDH⁺17, AGR17, CWW13, LWC17].

Salespoint [ZDS14]. **Salt** [Hol12]. **SAM** [BO13]. **San** [KP15]. **Sane** [MPS12]. **sanitizer** [VS11]. **Sapphire** [URJ18]. **SAT** [UPR⁺18]. **Satin** [VWJB10]. **SAW** [CFH⁺13]. **Scaffolding** [RT14]. **Scala** [SMS⁺12, AT16, Hin13, Lew13, PTML11, Pos19, SMSB11, SMS⁺12]. **Scala-Based** [PTML11]. **Scala.js** [DS16]. **Scalability** [CCH11, VP16, WZK⁺19, AAB⁺10, DSEE13, BFS⁺18, GTSS11]. **Scalable** [BBB⁺17, BS12, DFR13, GGRSY17, HC11, JQJ⁺16, RXK⁺17, RTE⁺13, XMA⁺14, XXCL19, ETTD12, FC11, GGRSY15, NFV15, PIR17, PLR18, RTET15, TTD12]. **ScalaLab** [PTML11, PMTL14]. **scalar** [PQTGS17]. **Scale** [BA17, PE11, CJ19, DHS15, LO15, MDS⁺17, MCY⁺10, PTF⁺15, WHIN11]. **SCEL** [DLPT14]. **scenarios** [AMWW15, Sch13]. **Scheduler** [QSaaS⁺16, IF16, TWL12]. **scheduler-independent** [IF16]. **Scheduling** [ASV⁺16, BVEAGVA10, KPHV11, EP14, EABVGV14, ZW10]. **scheme** [XHH12, YKA⁺19]. **SCHISM** [PZM⁺10]. **Science** [HWM11, VF10, SGV12]. **sciences** [NL14]. **Scientific** [Esq11, PTML11, TAF⁺18, WN10, FRGPLF⁺12, PMTL14]. **scientists** [Bra14]. **SCJ** [MCW19]. **SCJ-Circus** [MCW19]. **SCORM** [HC10]. **Scrap** [ZCdSOvdS15]. **Script** [MSSK16]. **Scripting** [CSGT17, KKK⁺17, HBT12, KRR⁺14, PMTL14, Zha12]. **SE** [LYBB14]. **Seamless** [OwKPM15]. **Search** [NBB18, SED14, WCG⁺18, XXCL19, DDDF17]. **searching** [ETR12]. **Second** [HD17]. **secrets** [Alt12]. **section** [DTLM14]. **sections** [NM10a]. **Secure** [AFGM15, GMPS12, GM12, ABFM12, LMS⁺12, LMS⁺13, TLMM13, WA19]. **securely** [SFR⁺14]. **securing** [CDMR19]. **Security** [CDG⁺17, Gon11, HBS16, JWMC15, MCC17, PS10a, STA18]. **Seemingly** [Has12]. **selection** [WHIN11]. **Self** [MPS12, SEPV19, YXS⁺19, hED12, AHK⁺11, AGH⁺17, CBLFD12, HWW⁺15, MD15]. **Self-adaptive** [SEPV19]. **Self-Admitted** [YXS⁺19]. **self-collecting** [AHK⁺11]. **self-composition** [AGH⁺17]. **self-hosted** [CBLFD12]. **self-optimizing** [HWW⁺15, MD15]. **Self-stabilizing** [hED12]. **Semantic** [GGRSY17, RvB14, BNS12, GGRSY14, GGRSY15, MKK⁺12, MKK⁺13, OA17]. **Semantics** [BO12, BR15, Kri12, LKP19, LML17, SPY⁺16, AK13, FBH17, FZ17, KHL⁺17, Mil13, MT14, PSR15, PPS16, ZHCB15]. **Semantics-based** [SPY⁺16]. **Semantics-driven** [LKP19]. **semantics-preserving** [AK13]. **Semi** [FM13, SEK⁺19, ABC18, MRMV12]. **semi-automated** [MRMV12]. **Semi-automatic** [FM13]. **Semi-Autonomic** [SEK⁺19]. **semi-structured** [ABC18]. **Sensitive** [SGD15, HWM13, KRR19, LMK16, LX19, STA18]. **sensitivity** [HB13, LTMS18, LX19, PLR18]. **Sensor** [AFGG11, MTSH16]. **separability** [WRI⁺10]. **Separating** [DDM11, AC10]. **Separation** [ZLNP18, Pha18, TWSC10]. **Sequence** [NBB18, ZWZ⁺14]. **Sequencing** [YWW⁺18]. **Sequent** [FFF17]. **sequential** [BENS12, DMS11]. **serialization** [MHBO13]. **Seriously** [Kie10]. **Server** [HC11, KRH16, D'H12, Dei11, GGC19, HWLM11, R⁺13]. **Server-Side** [HC11, KRH16, D'H12]. **Service** [BVEAGVA10, SDM12, CSKB12, EABVGV14, GD10, HWLM11, KF11]. **service-oriented** [EABVGV14]. **services** [MZC10b]. **session** [KDPG18, FGR12]. **Set** [SBK13, Lon10a, Lon10b]. **Set-based** [SBK13, Lon10a, Lon10b]. **sets** [SP10b]. **setters** [Mil13]. **setting** [BDGS13]. **Settings** [GM12]. **Seven** [ST15]. **SGX** [CDMR19]. **Shadow** [NNTK17, NNT⁺19].

ShadowVM [MKZ⁺14]. **shalt** [LCW18].
shape [GMT14]. **Shared** [BG17, FBG17, BSMB16].
Shared-Memory [BG17, BSMB16].
sharing [PKO⁺15]. **Sherlock** [ADJG19].
Short [AHK⁺11, Cha18, SV15a, Zak12].
Short-term [AHK⁺11]. **shortcut** [MLM19, CSGT17]. **Side** [Bul18, HC11, OBPM17, D'H12, KRH16].
Side-Channel [Bul18]. **SIGCSE** [Wal12].
Signatures [DR10]. **significance** [FMS⁺11].
Similarity [ADJG19]. **simpA** [RVP11].
Simple [BO11, BO12, KCP⁺17, BVGV14b, MSM⁺10]. **Simplicity** [Dei11]. **Simplifying** [Mor18, Ano18]. **Simulating** [LM15].
Simulation [HWLM11, FLZ⁺18, KKW11, Rim12, ZXL16]. **Simulation-based** [HWLM11]. **simulations** [MCY⁺10].
Simulator [MKG⁺17, RXK⁺17]. **single** [JK13]. **Sinking** [CDG⁺17]. **site** [CPST15, SSB⁺14a]. **sites** [OOK⁺10]. **size** [AST12, UTO13]. **sizing** [CSV15]. **SJL** [MvH15]. **sketching** [HZZK19]. **skills** [JACS10]. **Skip** [WBHN18]. **Skyway** [NFN⁺18]. **slices** [YSCX17]. **Slicing** [XMA⁺14]. **Slimming** [WGF11]. **SLOC** [LSBV16, LSBV17]. **Smaller** [GS12].
smalltalk [FIF⁺15, HKVG14]. **smart** [BL15, GMPS12]. **Smartcard** [RBL12].
SMArtOp [TGZ17]. **Smartphones** [RT14].
SMARTS [RXK⁺17]. **snapshots** [AST12].
Snippets [SWU⁺15]. **SNP** [YCYC12]. **SoC** [TKL⁺15]. **social** [GGC18, GGC19]. **Socket** [WA19]. **Soft** [WZK⁺19, JACS10].
Software [BSA14, CC15, KH18, LMZP19, PBM⁺19, RC17, Wan11, YQTR15, YMHB19, BMSZ17, BTR⁺13, CBGM12, CFH⁺13, CJ17, CJ19, CDMR19, DVL13, EKUR10, FRGPLF⁺12, FC11, GT10a, HBG⁺16, JhED11, JK11, LPA13, MHR⁺12, NGB16, OIA⁺13, PLL⁺18, PBB19, RAS16, SZZ⁺19, SV17, XR13, YRHBL13, ZZK13, ZHCB15, ZDS14, CKS18].
Solidity [Dan17]. **Solution** [KS15, EKUR10, J⁺12]. **Solving** [SED14, FMBH15, UPR⁺18]. **Sorting** [BKP16]. **soul** [McM11]. **Sound** [BO13, BGK17, LE16, SMP19, BHSB14, ELW15, PPMH15, RGB18]. **soundly** [BS13].
Source [ADJG19, BSA14, GD12, MM16, RLMM15, SRTR17, SED14, ABC18, AK13, CJ17, CJ19, DRN14, EKUR10, FMS⁺11, JK11, MKK⁺12, MKK⁺13, OJ12, PMP⁺16, SSK13, Tai13, ZWSS15]. **source-code** [MKK⁺12, MKK⁺13]. **source-to-source** [AK13]. **sources** [IN12]. **Spark** [LXP18]. **sparse** [TGZ17]. **sparse-matrix** [TGZ17].
spatial [MLGA11]. **Speaking** [Rau14, Sam12]. **Special** [DVL13, Fox17a, HL13, HGCA11, Puf13, HTLC10, RHT13, HTW14, VK12].
specialization [KRR⁺14, SV15a]. **specific** [CSdL16, EEK⁺13, HWW⁺15, Kie13].
Specification [GJS⁺13, GJS⁺14, IF16, KW11, LN15, LYBB13a, LYBB13b, LYBB14, MCW19, TWNH12, BVGVEA11a, BCF⁺14, KR12, KW10, MRA⁺17, YP10, dCMMN12].
specifications [BSAL18, BENS12, PS10a, TVD10, UPR⁺18].
specified [BCR11]. **Specifying** [BNS12, HL13]. **Speculation** [AC16, MGI14, MGI17]. **speculative** [BB17, YRHBL13]. **speed** [HRS⁺17, SBF⁺10, UTO13]. **SPF's** [PSJ18].
Spi [PS10a]. **SPIN** [ASdMGM14]. **SPL** [BTR⁺13]. **splittable** [SLF14]. **SPOON** [PMP⁺16]. **spot** [LMK16]. **SPUR** [BBF⁺10]. **SQL** [FGB⁺19, KMLS15].
SqueakJS [FIF⁺15]. **SSNTDs** [VSG17].
Stability [BSA14, LL15]. **stabilizing** [hED12]. **Stack** [WBHN18, CDBD18, KRCH14, Xue12].
stack-based [KRCH14]. **stage** [WRI⁺10].
staged [SC16]. **staging** [RO12].
Stakeholders [YMHB19]. **Standard** [WKG17, LMS⁺12]. **Standardization** [TWNH12]. **StarL** [LM15]. **start** [WSH⁺19].
State [AGR12, BLH12, MvDL12, MS14,

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