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Title word cross-reference

d [HL20]. λ [FKR20, SC18]. $\lambda\omega$ [VS20]. Π [BCRA18]. Σ [BCRA18].

-calculus [FKR20].

.NET [PVV⁺17].

72 [Ing20].

ableC [KKCV17]. **Abridging** [YMJ17].
Abstract [BGMW20, BGG⁺20, Cra19, KPE18, KE19, KMP19, SPV18, VPD19, WDR18, WCR19, ZYT⁺19]. **Abstracting** [BPPS19, DLNV17, MM19]. **Abstraction** [ZM19, CKA18, CdV20, GJJ⁺20, LRS⁺20, WDS18]. **Abstraction-safe** [ZM19].
abstractions [KSW18]. **accelerate** [CB17].
access [BP19]. **accuracy** [FJM19, SSH⁺19].
accuracy-aware [SSH⁺19]. **acquire** [AAJN18]. **across** [XCB⁺18]. **actor** [BBB⁺17, CFD⁺17]. **actor-based** [BBB⁺17]. **Actris** [HBK20]. **ad** [JME20].
adaptive [WCHRP17]. **adjunctions** [GHHW18]. **affine** [BKPS18]. **after** [MKV18]. **again** [NJA20]. **against** [VREV19]. **Agda** [VMA19]. **aided** [NWP⁺18, RGSNT17, WLH⁺17]. **Aiming** [HKGK20]. **air** [OD18]. **AL** [CR19]. **alarms** [ZGSN17]. **algebra** [BHP⁺19, CKA18, GHHW18, KKC⁺17, SFH⁺20, ZH18].
algebraic [Ahm18, BPPS18, BPPS19, BAS⁺18, Ham17, MRX⁺19, Mor19].
algebras [YvGK18]. **algorithm** [MS19].

Algorithmic [LY18]. **algorithms** [Ell17b, WNC⁺19]. **alias** [CCP18b, SAB17]. **alias-aware** [SAB17]. **aliasing** [JDKD20]. **alive** [MT17]. **allocation** [SdSCQ19]. **almost** [HFCG19, MMKK18]. **almost-sure** [HFCG19, MMKK18]. **Alone** [KNNJ18]. **Alpaca** [MCL17]. **already** [RAT17]. **analyses** [SBEV18]. **analysis** [AD17, COHY17, CCP18b, DHP18, GS17, JJO18, JCO17, LY18, LTMS18, LX19, QGG19, RBG⁺18, RKS18, SAB17, SNCM19, WWC17, WCR19, ZGSN17, ZYT⁺19]. **analytic** [PVSK18]. **Analytical** [BKPS18]. **analyzing** [SSK17]. **ancestors** [FMG⁺20]. **Android** [BFV18]. **any** [MM19]. **AnyDSL** [LBH⁺18]. **API** [YNIC19]. **APIs** [CHJ⁺19]. **APL** [HK20]. **application** [BGC18, CNRG19, WSH⁺19]. **application-specific** [BGC18]. **applications** [AMT17, AFH⁺18, GAGG⁺18, Ham17, LMM17a, MDSM19, OBL⁺18, WDLC18]. **applicative** [MLMD19]. **applying** [BSZL⁺18]. **approach** [ACN18, BBRM17, HBP19, PS18, WR18, WCH⁺19]. **ApproxHPVM** [SSH⁺19]. **Approximate** [ETG19, FJM19, SFRM20]. **approximation** [DR19]. **approximations** [MPV18]. **architecture** [RWNV20, Rei17]. **architectures** [DJR18]. **argument** [RAJ⁺17]. **arithmetic** [FK18, SMC19]. **ARM** [PFD⁺18, Rei17]. **ARMv8** [PFD⁺18, RWV19]. **Aroma** [LYB⁺19]. **array** [OCDR17, SFVJ19]. **array-processing** [SFVJ19]. **arrays** [NcS17]. **art** [HP19]. **Asphalion** [VREV19]. **assembly** [SCK⁺20]. **assessing** [TBB⁺19]. **assessment** [ACM⁺18]. **assets** [HVVH20]. **assignments** [LSSO18, SLO19]. **assisted** [SVR17]. **association** [SZD⁺17]. **asynchronous** [AZMT18, CY19, FLMD19]. **atomic** [PFD⁺18, ZZX⁺20]. **attention** [LWNN19]. **attention-based** [LWNN19]. **auditing** [ZPG⁺17]. **Augmented** [ASMS20]. **autogenerating** [CR19]. **automata** [AM17, WDS17]. **Automated** [DELT17, TLKC18, ACM⁺18, HP19]. **Automatic** [LSSO18, PHXD19, SLO19, Ell18, KKCV17]. **Automatically** [COHY17, BSPC19, BBZ18, LSA18]. **Automating** [AD17, Jab20]. **AutoPandas** [BLF⁺19]. **avoidance** [CSM⁺17]. **avoiding** [OD18]. **aware** [FG18, GRXB19, OMO19, SKS⁺19, SSH⁺19, SZZ⁺19, SHTZ⁺19, SAB17]. **axiomatic** [KH18, PFD⁺18]. **backed** [BLF⁺19]. **Backpropagation** [BMP20]. **backpropagator** [WZD⁺19]. **backward** [KZK⁺18]. **based** [ASMS20, BKN19, BBB⁺17, CNRG19, CB18, HBK20, KNNR17, LHP19, LWNN19, MKV18, PS18, SBEV18]. **basis** [KH18]. **batch** [SLDN17]. **Bayesian** [ŚKV⁺18, ŚKG18]. **BDA** [ZYT⁺19]. **before** [MKV18]. **behavior** [BKPS18]. **beliefs** [KNNR17]. **benefits** [SGDL20]. **Berry** [BM20]. **Better** [KMP19, Mai17]. **between** [WDR18]. **bias** [WCBG17]. **Bidirectional** [MKC18, DK19, KH18]. **bijections** [YF18]. **bijective** [MFP⁺18]. **binary** [DSPC⁺19, ZYT⁺19]. **Binders** [BPPS20]. **binding** [AAC⁺18]. **Bindings** [BGPT19]. **bioinformatics** [SNB⁺19]. **BioScript** [OLC⁺18]. **Bisimulation** [MV19]. **blame** [LKS⁺20, SSC⁺17, WMW18]. **blocking** [PVV⁺17]. **blocks** [CB17]. **blows** [BBTK⁺17]. **Bonsai** [CB18]. **borrows** [JDKD20]. **both** [FKR20]. **bound** [DR19]. **Bounded** [CPKG17, BGPT19, KESJ18]. **bounds** [AGLK18, HKGK20]. **bracketed** [SDB19]. **brainer** [DMS17]. **bridging** [WDR18]. **broken** [AZMT18]. **bug** [LWNN19, PS18]. **bugs** [BSPC19, MN18, SJL19, WZS19]. **Build** [MMJ18, WSH⁺19]. **building** [WLH⁺17]. **built** [DTM⁺18]. **built-in** [DTM⁺18].

bytecode [CNRG19, WMLK18]. **Byzantine** [VREV19].
C [BBG⁺20, COHY17, CNH20, KKC17, KLSV18, MRdAP18, SCK⁺20, Str20, WCMH19, WCH⁺19]. **C-assembly** [SCK⁺20]. **C-like** [COHY17]. **C/C** [KLSV18]. **cache** [BKPS18, XCB⁺18]. **caching** [BC18]. **CakeML** [ONK⁺17]. **calculus** [BGM19, BMP20, CdV20, DdVMY19, FKR20, Ham17, Mor19]. **Call** [HH19, BBBK17, FKR20, KMLD20]. **Call-by-need** [HH19]. **call-by-push-value** [KMLD20]. **call-by-value** [FKR20, HH19]. **callback** [GAGG⁺18]. **calls** [ONK⁺17]. **canonical** [BvGKJ17, FJM19]. **capabilities** [SDB19, VPD19]. **capability** [SGD17]. **Capturing** [KSSL18]. **care** [BPPS18]. **carte** [MMJ18]. **case** [WH19]. **cast** [MHN19]. **Casting** [MHN19]. **Casts** [CCW18]. **Categorical** [Mel19]. **categories** [CK18, Ell17a]. **cause** [WMW18]. **centric** [CCP⁺18a, CPT19]. **certified** [SScWS19]. **Certifying** [WCMH19]. **changing** [Str20]. **Chaperone** [MP17]. **check** [FZL18]. **checking** [AAJN18, AAJ⁺19, BE19, CVG⁺17, KLSV18, KRV19, KKT19, SBF⁺20, UAM17, YNIC19]. **checkpoints** [MCL17]. **chemistry** [OLC⁺18]. **Chez** [FDD⁺19]. **child** [BS17]. **chip** [OLC⁺18]. **clairvoyant** [HH19]. **class** [BXMS19]. **classes** [SKR20, ZM17]. **classical** [KMP19]. **clauses** [BOR18]. **Clojure** [Hic20]. **Closure** [PA19a]. **CLOTHO** [RNDJ19]. **cloud** [ZPG⁺17]. **co** [CFD⁺17, CA18a]. **co-design** [CFD⁺17]. **coarrays** [RLS20]. **coaxioms** [ADZ17]. **codata** [BJSO20]. **code** [BT18, BSZL⁺18, LHJ⁺18, LWNN19, LMM⁺17b, LYB⁺19, SVR17, VPD19, VN18, WNC⁺19, XCB⁺18, YMJ17]. **Coherence** [BXMS19]. **coherency** [CFL17]. **cohesion** [Kav19]. **coin** [CY19]. **cold** [BBTK⁺17]. **Collapsible** [FGS⁺18]. **Collapsing** [AR18]. **collection** [DEH⁺18, UAM17]. **collections** [DTM⁺18, EE18]. **collective** [EWR19]. **combination** [SdSCQ19]. **combinatorics** [Mel19]. **communication** [CHJ⁺19]. **comonads** [HT18]. **CompCert** [SCK⁺20]. **CompCertM** [SCK⁺20]. **Competitive** [MAH18]. **compilation** [BBP20, Cra19, OUM18, VPD19]. **compile** [RAT17]. **compile-time** [RAT17]. **Compiler** [MTDC19, AHM⁺17, BBG⁺20, GCS⁺18, KKC⁺17, Mai17, PA19b, SSH⁺19]. **compilers** [CKA18, DELT17, MJK⁺17]. **Compiling** [COER19, Ell17a, NWP⁺18]. **Complete** [GFD19, AAR20, CK18, DK19, EE18, Pav20, UST18, VTC⁺18]. **completion** [WDS17]. **Complexity** [FISS20, AD17, BE19, DHP18, WWC17]. **component** [DEH⁺18]. **components** [KE19]. **composed** [BC18]. **composition** [KKCV17, SLDN17]. **Compositional** [DPQS18, KPE18, BGOS18, KNNJ18, KSW18, SGD17]. **computation** [CT19, DSLH20, Ham17, KVT20, PGFP17]. **computational** [CH19]. **computations** [ADZ17, OADR17]. **computer** [NWP⁺18]. **computer-aided** [NWP⁺18]. **computing** [AFF⁺18, JPBG19]. **concatenation** [HJL⁺18]. **concentration** [BZSL19]. **Concurrency** [FG18, KESJ18, KLSV18, PFD⁺18]. **Concurrency-aware** [FG18]. **concurrent** [AG20, BP19, BHP⁺19, EE18, KSW18, LF18, NBDF19, TB19, UAM17]. **conditioning** [DK20, NcS17]. **conditions** [GKJ⁺18, ZZX⁺20]. **cones** [EPT18]. **configuration** [SZD⁺17]. **Conflict** [ZH18]. **conservativity** [KP18b]. **consistency** [AAJ⁺19, BE19, GKMB17]. **consistent** [RNDJ19]. **constant** [BBG⁺20]. **constant-time** [BBG⁺20]. **Constrained** [ME17, BOR18]. **constraints** [CCH⁺18, HJL⁺18]. **Constructing** [KKA19]. **construction** [DSPC⁺19, SPV18]. **constructors** [JME20]. **context**

[JJO18, JJCO17, LTMS18, LWNN19, LX19]. **context-based** [LWNN19]. **context-sensitivity** [JJCO17]. **Contextual** [WCGC18, Jab20, TSKJB18]. **continuations** [CA18b, COER19, TB19]. **continuity** [SMC19]. **continuous** [BKMM19, WCGC18]. **contract** [NGTHV18, SNJ⁺19]. **contracts** [END⁺18, FGS⁺18, GKJ⁺18, GAGG⁺18, MP17, WZS19, WCD17, WMW18]. **control** [AFF⁺18, BGMW20, FKLP17, SDB19]. **conversion** [AÖV18, Ada19, DMS17, PA19a]. **coordination** [BNS20]. **copy** [UAM17]. **copying** [UAM17]. **coq** [BSZL⁺18, AHM⁺17, KZK⁺18, SM19, SBF⁺20, yXZH⁺20]. **coroutine** [Spi17]. **correct** [DSPC⁺19, QSL17, SBF⁺20]. **correct-by-construction** [DSPC⁺19]. **correction** [LSSO18]. **Correctness** [FSY⁺18, LSA18, PA19b]. **correlated** [ZPG⁺17]. **correlation** [BAS⁺18]. **cost** [DFS18, QGG19, RBG⁺18]. **costs** [CCW18, OD18]. **countering** [GFFS17]. **coupling** [AH18]. **Coverage** [LHP19]. **CPS** [BCRA18, DMS17]. **Cross** [DEH⁺18]. **Cross-component** [DEH⁺18]. **crowded** [Str20]. **Cubical** [VMA19, CH19]. **cycle** [MW20].

D [BAP20]. **dark** [MHN19]. **Data** [CCP⁺18a, JJCO17, BJSO20, Cha20, CCP18b, Coh18, IS18, JJO18, KPSJ19, KSW18, LRGC19, MW20, MM19, PJP⁺18, QSL17, SSC⁺17, WDS17, WCMH19, WCBG17, YvGK18]. **Data-centric** [CCP⁺18a]. **data-dependence** [CCP18b]. **Data-driven** [JJCO17, JJO18, SSC⁺17]. **data-structure** [QSL17]. **database** [RNDJ19, WDLC18]. **database-driven** [WDLC18]. **dataflow** [BBP20, SAB17]. **Datalog** [RMZ⁺20, SBEV18]. **datatypes** [JME20, XEdSO20]. **day** [BPPS20]. **dead** [BBTSTH17]. **Deadlock** [CSM⁺17, KP18a].

debugging [PN17]. **Decidability** [AÖV18]. **Decidable** [MPAG20, CCH⁺18, Ham17, HL20, MP20, PLSS17]. **Deciding** [MMK⁺20]. **decoders** [DSPC⁺19]. **decompiling** [NWP⁺18]. **decomposing** [SPV18]. **Decomposition** [BJSO20]. **Deductive** [CMP20]. **DeepBugs** [PS18]. **DeepSEA** [SScWS19]. **default** [LMM17a]. **defects** [RAJ⁺17]. **defined** [FKLP17]. **Definitional** [GCST19, DLNV17, PRT⁺18, WDR18]. **definitions** [KP18b]. **DéjàVu** [LMM⁺17b]. **delimited** [CA18b, FKLP17]. **demand** [SNCM19]. **demand-driven** [SNCM19]. **Demystifying** [WZD⁺19]. **Denotational** [ŠKV⁺18, LCTS⁺20]. **deoptimization** [FSY⁺18]. **Dependence** [GRXB19, CCP18b, ZYT⁺19]. **Dependence-aware** [GRXB19]. **Dependent** [CBTB20, AVW17, CA18a, CA18b, DFS18, ETG19, GSB19, LZ18, MPAG20, NVD17, PT20, RKHL17, RL19, SJL19, TV20, WFC⁺20, WVdAE17, WCVE19]. **Dependently** [CDD⁺19, SM19, VMA19]. **dependently-typed** [SM19]. **derivation** [DSPC⁺19, LZ18]. **Derivative** [HBP19]. **derivatives** [HBP19]. **deriving** [KPW18]. **descendants** [FMG⁺20]. **deserves** [Coh18]. **Design** [CNRG19, BCC⁺18, CFD⁺17, GV19, MRG18, NWP⁺18]. **Detecting** [RAJ⁺17, WZS19, ZZX⁺20]. **detection** [AMT17, BGOS18, GRXB19, GAGG⁺18, LWNN19, MKV18, PS18, SLO19, WCBG17]. **Deterministic** [KVT20, SLDN17, UST18]. **development** [WKS18]. **devices** [PGFP17]. **diagnosis** [LSSO18, SSC⁺17]. **Diagrammatic** [BHP⁺19]. **did** [WC17]. **difference** [YF18]. **differentiable** [AP20, SFVJ19, WZD⁺19]. **differential** [AH18, NDA⁺19, WCHRP17, ZRH⁺19]. **differentially** [SA19]. **differentiation** [Ell18]. **diffing** [MS19]. **Dijkstra** [MAA⁺19]. **dimensional** [DR19]. **direct**

[MKC18]. **directed** [OUM18, RNDJ19]. **discrete** [SFRM20]. **Disentanglement** [WYFA20]. **dispatch** [PHSR19]. **Distributed** [CHJ⁺19, WKS18, BvGKJ17, BGMW20, BVG19, DPQS18, GKMB17, MDSM19, OMN⁺18, OMO19, PLSS17, SKS⁺19, SWT18]. **distribution** [BBB⁺17]. **distributions** [SFRM20]. **divergent** [ADZ17]. **diversity** [BJSO20]. **Does** [LKS⁺20, MTDC19]. **domain** [PLS⁺19]. **domain-specific** [PLS⁺19]. **domains** [SPV18]. **don't** [GFFS17]. **DOT** [RL19]. **DProf** [BVG19]. **driven** [JJO18, JJCO17, MJK⁺17, SSC⁺17, SNCM19, WDLC18]. **DSL** [ZYB⁺18]. **Duet** [NDA⁺19]. **duplicates** [LMM⁺17b]. **durable** [ZFS⁺19]. **DWARF** [BKN19]. **DWARF-based** [BKN19]. **Dyck** [CCP18b]. **Dynamic** [MSI19, AFF⁺18, CCP⁺18a, CPT19, DTM⁺18, DPQS18, FSY⁺18, MKV18, MRG18, Pav20, SPKT18, WCBG17]. **dynamically** [CHJ⁺19]. **dynamically-instantiated** [CHJ⁺19]. **dynamism** [BCC⁺18].

early [Sym20]. **edit** [MGL⁺19]. **Editorial** [Wad17]. **edits** [PBS⁺17]. **education** [CDH17]. **Effect** [BSO18, MJK⁺17, BPPS20, FKLP17, GCS⁺18, ZM19]. **Effect-driven** [MJK⁺17]. **Effective** [KLSV18, KRV19, ZGSN17, MN18, TTS18]. **effectively** [GAGG⁺18, Pav20]. **effects** [Ahm18, BPPS18, BPPS19, BAS⁺18, FKLP17, HT18, PT20, SB19]. **Efficient** [CFL17, SFVJ19, ZFS⁺19, ACN18, MS19, ONK⁺17, SAB17, WNC⁺19, WHZ⁺19]. **efficiently** [HJL⁺18]. **Elaborating** [CA18a]. **elimination** [DS17, PT20]. **Emacs** [MS20]. **embedded** [PZR⁺17]. **embedding** [NA18]. **embedding-projection** [NA18]. **empirical** [GCS⁺18, MHN19]. **Empowering** [MT18]. **encapsulation** [SDB19, TSKJB18]. **encoders** [DSPC⁺19]. **endpoint** [CHJ⁺19]. **enforcing** [NDA⁺19, SDB19]. **enhancing** [MKV18]. **epoch** [RV18]. **EPR** [PLSS17]. **equational** [Mor19]. **Equations** [SM19]. **equivalence** [AAJ⁺19, Jab20, WCGC18, WDLC18]. **Equivalences** [TTS18, TSKJB18]. **erasure** [SBF⁺20]. **error** [WCC17, WCH⁺19]. **errors** [BBZ18, DdVMY19, LSSO18, SSC⁺17, SLO19, WC17, ZZX⁺20]. **essence** [Eil18]. **Ethereum** [GKJ⁺18, WZS19]. **Evaluating** [CBA17]. **evaluation** [AVW17, AK20, BT18, BP18, LBH⁺18, MKC18]. **event** [BAS⁺18]. **eventual** [GKMB17]. **Every** [Coh18]. **everywhere** [KMV19]. **Evolution** [MS20, CNH20, Ing20]. **exact** [SMC19]. **example** [ASMS20, WFB⁺20]. **example-based** [ASMS20]. **examples** [BFV18, IS18]. **ExceLint** [BBZ18]. **Exceptional** [FLMD19, PTFT19]. **Executable** [GB20]. **executables** [ZYT⁺19]. **execution** [BGC18, CKT18, CB17, MCL17, WMLK18]. **exhaustive** [CPKG17]. **existentials** [DK19]. **expected** [BEG⁺18, WFC⁺20]. **experience** [ACM⁺18, AHM⁺17, BRS18, BS17, BSZL⁺18, CDD⁺19, FDD⁺19, HP19, YW19]. **experiments** [TBB⁺19]. **explain** [RSPC17]. **explodes** [BT18]. **Exploiting** [KNNR17, CFL17]. **expressions** [MKTD17, PHXD19]. **expressive** [FKLP17, NDA⁺19]. **extensible** [KKCV17, KJJ⁺18, MM19]. **extension** [YvGK18]. **extensionality** [BGG⁺20]. **extensions** [KKCV17]. **extraction** [KMLD20].

F# [Sym20]. **F*** [PZR⁺17]. **failures** [ZPG⁺17]. **Fairness** [MWA19, ADDN17, BZSL19]. **FairSquare** [ADDN17]. **Familia** [ZM17]. **Familial** [Hir19]. **families** [ME17]. **family** [ZM17]. **Fast** [CVG⁺17, Pav20, BKN19, LX19, WCR19, WSH⁺19]. **Faster** [Spi17, WMLK18]. **Fault**

[Per18, BGC18, LZ17, MDSM19]. **fault-tolerant** [MDSM19]. **faults** [VREV19]. **features** [COHY17]. **FFT** [Ell17b]. **fibrations** [MPV18]. **fibred** [Ahm18]. **file** [SZD⁺17]. **Finding** [AZMT18, BT18, BBZ18]. **Finitary** [OUM18]. **finite** [WDS17]. **fire** [PT20]. **first** [MKV18, NJA20, PHL⁺18, WBE20]. **first-order** [PHL⁺18]. **fitch** [BGM19]. **fitch-style** [BGM19]. **fix** [BSPC19]. **fixed** [WC17]. **fixing** [FGS⁺18]. **Fixpoint** [BKMMP19, KVT20]. **FlashProfile** [PJP⁺18]. **floating** [Ada19, ZZ⁺20]. **floating-point** [ZZ⁺20]. **flow** [AFF⁺18, Kav19, KSW18, SDB19]. **fluent** [YNIC19]. **fly** [MGL⁺19]. **Formal** [BBG⁺20, JPBG19, EUR⁺17, GB20, LRS⁺20, Rei17]. **formalising** [RWV19]. **formalization** [BP19, ZdSOS19]. **formalized** [HVK19]. **formatting** [RL19]. **Format** [CKA18]. **formats** [DSPC⁺19]. **formula** [BBZ18]. **Fortran** [RLS20]. **Foundations** [BBBK17, LMP18, AFH⁺18, HVK19, JPBG19, JJKD18, OBL⁺18]. **FR** [HVK19]. **fragments** [HL20]. **framework** [EUR⁺17, KKC17, KJJ⁺18, LBH⁺18, LZ18, MA18, PJP⁺18, SSK17, WCHR17]. **free** [AJSW17, Coh18, GAGG⁺18, MW20, TTS18, YvGK18, ZFS⁺19]. **friendly** [WCC17]. **Full** [CdV20]. **Fully** [Cra19, KMP19, RL19, VPD19]. **fully-abstract** [KMP19]. **function** [CCH⁺18, OBL⁺18, ONK⁺17]. **Functional** [NWP⁺18, ŠKG18, ACM⁺18, ACF17, AK20, AG20, Ber17, BG18, BBRM17, CDH17, DLNV17, DMS17, Ell17b, EHAO18, HP19, KMLD20, KSSL18, LSSO18, OVCH19, PA19b, PN17, Per18, QGG19, RSPC17, SFVJ19, SLO19, SM19, SAFF⁺17, SC18, SB19, VS20, WWC17, WDR18, YF18]. **functional-imperative** [QGG19]. **functions** [EPT18, SPKT18]. **functors** [BGPT19, MLMD19]. **fusing** [SSK17]. **Futhark** [EHAO18]. **future** [JLP⁺20, KSSL18]. **futures** [CSM⁺17]. **FuzzFactory** [PLS⁺19]. **Fuzzi** [ZRH⁺19]. **fuzzing** [MTDC19, PLS⁺19].

game [CY19, Mel19, dVPJ20]. **games** [ACM⁺18, BKMMP19, FK18]. **gap** [WDR18]. **garbage** [DEH⁺18, UAM17]. **gas** [GKJ⁺18]. **GC** [CFD⁺17]. **general** [KJJ⁺18, SSK17]. **generalized** [DS17]. **Generating** [LPP18, WCH⁺19, YNIC19, COHY17]. **generation** [CPKG17, RNDJ19, RGSNT17, SPKT18, WH19]. **generators** [BLF⁺19, LPP18]. **Generic** [DFS18, Ell17b, KPW18, Yal17, dVPJ20]. **Geo** [BBB⁺17]. **Geo-distribution** [BBB⁺17]. **Getafix** [BSPC19]. **getting** [MAH18]. **ghost** [CMP20]. **GitHub** [LMM⁺17b]. **globally** [MA18]. **GLORE** [DS17]. **glossy** [ACM⁺18]. **Go** [KSW18, CHJ⁺19]. **good** [LPP18]. **goSLP** [MA18]. **GPU** [CNRG19, EHAO18]. **GPU-based** [CNRG19]. **GPUs** [CPKG17]. **graded** [OLE19]. **grading** [HP19]. **Gradual** [CL17, CLPS19, ITVW17, NLA19, TLT19, VTV18, BBTSTH17, CCW18, CCEW18, ETG19, FGS⁺18, GFD19, ISI17, MP20, MSI19, MT17, RAT17]. **Graduality** [NA18, NJA20]. **grammar** [YNIC19]. **grammars** [AM17, HBP19]. **graph** [WCMH19, ZYB⁺18]. **graph-manipulating** [WCMH19]. **graphics** [DELT17]. **GraphIt** [ZYB⁺18]. **graphs** [PBS⁺17]. **greedy** [Ber17]. **Groovy** [Kin20]. **ground** [RWV19]. **guarantees** [BVG19, OMN⁺18]. **Guarded** [SFH⁺20, MV19]. **guards** [Rei17]. **guided** [GJJ⁺20, LHP19, LTMS18, RMZ⁺20, WH19].

Handle [BPPS18]. **handlers** [BPPS18, BPPS20, BSO18, FKLP17, ZM19]. **Handling** [Ahm18, CA18b, KRV19]. **happens** [MKV18]. **happens-after** [MKV18]. **happens-before** [MKV18]. **harder** [HKGK20]. **hardware**

[BGC18, CVS⁺17]. **harmonizing** [CCW18]. **Haskell** [BBN⁺18, BSZL⁺18, CDD⁺19, HVH20, KFEJ19, WVdAE17, WCVE19]. **HDL** [FMG⁺20]. **heap** [GFFS17, MMK⁺20, TLKC18, TGSM19]. **heap-manipulating** [MMK⁺20]. **Heaps** [GFFS17, EWR19]. **Herbarium** [SAFF⁺17]. **heterogeneous** [PGFP17, SMM17]. **heuristics** [COHY17]. **high** [CVS⁺17, LHJ⁺18, LBH⁺18, SGDL20, SNB⁺19, SM19, WNC⁺19, ZYB⁺18]. **high-level** [CVS⁺17, LHJ⁺18, SGDL20, SM19, WNC⁺19]. **high-performance** [LBH⁺18, SNB⁺19, ZYB⁺18]. **Higher** [BOR18, CH19, KFEJ19, ABG⁺17, AK20, BBN⁺18, CK18, CGM18, DK20, DK19, EPT18, EHAO18, Jab20, MP17, NDA⁺19, NGTHV18, ŠKV⁺18, SPKT18, SC18, UST18, VMA19, WCD17, ZdSOS19]. **Higher-order** [BOR18, KFEJ19, ABG⁺17, AK20, BBN⁺18, CGM18, DK20, EPT18, EHAO18, Jab20, MP17, NDA⁺19, NGTHV18, ŠKV⁺18, SPKT18, SC18, UST18, WCD17]. **higher-rank** [DK19]. **higher-ranked** [ZdSOS19]. **Hindley** [MSI19]. **History** [RLS20, SHK⁺20, CB17, Hic20, Kin20, MHR20, ML20, Sym20, VHSS20]. **hoc** [JME20]. **HOL** [KP18b]. **holes** [OVCH19]. **hood** [CDH17]. **Horn** [BOR18, END⁺18]. **Horn-ICE** [END⁺18]. **hot** [BBTK⁺17]. **hs** [BSZL⁺18]. **hs-to-coq** [BSZL⁺18]. **Hygienic** [CW20].

I/O [SJL19]. **ICE** [END⁺18]. **IDEal** [SAB17]. **idempotence** [SJL19]. **Identifying** [VN18]. **Imperative** [RSPC17, PRT⁺18, QGG19]. **implementation** [CNRG19, GV19, XCB⁺18]. **implementations** [LSA18]. **Implementing** [GSB19]. **implicit** [KNNR17, OBL⁺18]. **implicits** [KMV19]. **improvement** [HH18]. **Improving** [LWNN19, CBA17]. **impure** [yXZH⁺20]. **incomplete** [BGG⁺20, MRdAP18]. **incorporated** [EJMmH17]. **Incorrectness** [O'H20]. **Incremental** [HPC18, KPSL18]. **Incrementalizing** [SBEV18]. **indexed** [DK19]. **induction** [HKGK20]. **inductive** [CH19, KKA19, LPP18, VMA19]. **inductive-inductive** [KKA19]. **industry** [CDD⁺19]. **Inference** [MRdAP18, AKL19, AD17, FISS20, KNNJ18, LYRY20, LCTS⁺20, LZ18, MSI19, ŠKV⁺18, ŠKG18, VTV18, WNC⁺19, XEdSO20, ZdSOS19]. **Inferring** [PKW17]. **information** [AFF⁺18, FISS20, Kav19]. **initialization** [AMT17, WSH⁺19]. **Initialize** [WSH⁺19]. **input** [CPKG17, RGSNT17, WH19]. **instances** [BPPS20]. **instantiated** [CHJ⁺19]. **instantiation** [LMP18]. **Instrumentation** [WCBG17]. **integrated** [MT18, SKS⁺19]. **integrating** [IS18, RV18]. **Intel** [RWNV20]. **Intel-x86** [RWNV20]. **IntelliMerge** [SZZ⁺19]. **Interaction** [yXZH⁺20]. **interactive** [KJJ⁺18, MDSM19, ZGSN17]. **interfaces** [ZM17]. **intermittent** [MCL17, SJL19]. **interpretation** [BGMW20, BPPS18, EHAO18, KE19, ZYT⁺19]. **interpretations** [BGG⁺20]. **interpreters** [AR18, CNRG19, DLNV17, KPE18, PRT⁺18, WDR18, WCR19]. **Intersection** [DdVMY19, CL17, MPV18, MT18, WMW18]. **Intrinsically** [PRT⁺18]. **Intrinsically-typed** [PRT⁺18]. **invariant** [FISS20, KCBR18]. **invariants** [END⁺18, WWC17]. **IR** [SSH⁺19]. **Iris** [dVPJ20]. **irrelevance** [GCST19]. **Isabelle** [KP18b]. **Isabelle/HOL** [KP18b]. **isolation** [KNNJ18, LRS⁺20]. **isomorphism** [SdSCQ19]. **IVT** [WHZ⁺19].

Java [BP19, CNRG19, MHN19, MKTD17]. **JavaScript** [AMT17, AZMT18, CVG⁺17, MLT17, SMN⁺18, WBE20]. **JaVerT** [SMN⁺18]. **JIT** [XCB⁺18]. **Jones** [BP18].

Jones-optimal [BP18]. **Julia** [BCC⁺18, NBP⁺18]. **JVM** [LMM17a].

Kahn [BM20]. **Kami** [CVS⁺17]. **Keep** [FZL18]. **Kind** [XEdSO20]. **kinds** [CT19]. **Kleene** [SFH⁺20]. **knew** [RAT17]. **know** [BG18]. **knowledge** [RAT17].

Label [TV20, LZ18]. **Label-dependent** [TV20]. **labels** [BPPS20]. **laboratories** [OLC⁺18]. **laboratories-on-a-chip** [OLC⁺18]. **LabVIEW** [Kod20]. **lambda** [BMP20, CdV20, MKTD17, Mor19, YW19]. **lambda-calculus** [BMP20, CdV20]. **Language** [SKS⁺19, AP20, AK20, BBN⁺18, BRS18, BBP20, BAP20, DSLH20, JJKD18, KKC17, Kin20, KPSL18, NDA⁺19, Pue17, RGSNT17, SFVJ19, SNB⁺19, SScWS19, SC18, VHSS20, VMA19, WCGC18, WWC17, YWDD17, ZPG⁺17]. **Language-integrated** [SKS⁺19]. **language-parametric** [KPSL18]. **languages** [ACF17, COHY17, CFD⁺17, DTM⁺18, KPSL18, LCTS⁺20, MRG18, PRT⁺18, SPKT18]. **large** [EHAO18, KMV19]. **large-scale** [KMV19]. **late** [KMP19]. **lattice** [SBEV18]. **lattice-based** [SBEV18]. **lattices** [BKMM19]. **layering** [HT18]. **layout** [BFV18, PETK19]. **laziness** [FZL18, GV19]. **lazy** [HT18]. **leaks** [BGM19]. **Learning** [SSC⁺17, WCC17, BSPC19, CR19, COHY17, CWF⁺19, END⁺18, LWNN19, PS18, SZD⁺17, SC18, WCH⁺19]. **lemma** [BG18, TLKC18]. **lenient** [CKT18]. **lenses** [HPC18, MMF⁺18, MFP⁺18, MMF⁺19]. **LER** [DS17]. **LER-notation** [DS17]. **Less** [SY19, JME20]. **Leto** [BGC18]. **level** [CT19, CVS⁺17, GCS⁺18, KFEJ19, LHJ⁺18, MA18, PZR⁺17, SGDL20, SM19, WNC⁺19, ZRH⁺19]. **Leveraging** [AMPS19, RAT17]. **lexically** [BPPS20]. **Lexicographic** [ACN18]. **libraries** [DA18, LBH⁺18]. **library** [MRX⁺19, WLH⁺17]. **lie** [GFFS17]. **life** [MW20]. **lightweight** [SCK⁺20]. **like**

[COHY17]. **Linear** [VPD19, AG20, BNS20, BHP⁺19, BMP20, FK18, KCBR18, LMZ19, NDA⁺19, SDB19, SFH⁺20, BBN⁺18]. **Linearity** [CGM18, BBN⁺18]. **linearizability** [EE18]. **link** [DA18]. **linking** [SCK⁺20]. **liquid** [HVH20, VTV18]. **Liquidate** [HVH20]. **Lisp** [MS20]. **literal** [OA18]. **Live** [OVCH19]. **liveness** [PHL⁺18]. **living** [Mai17]. **LLVM** [LHJ⁺18]. **Local** [CJ17, PBS⁺17, dVPJ20]. **localization** [LZ17]. **localizations** [WCMH19]. **localizing** [SSC⁺17]. **Lock** [BS17, Coh18, KRV19, MW20, ZFS⁺19]. **lock-free** [Coh18, MW20, ZFS⁺19]. **Lock-step** [BS17]. **logging** [CFL17]. **logic** [ABG⁺17, AG20, BHL20, HBK20, JLP⁺20, KJJ⁺18, NBDF19, O'H20, PHL⁺18, SC18, TLKC18, TGSM19, VPD19, ZRH⁺19]. **logical** [LSSO18, SLO19, TSKJB18]. **logics** [MHRV20]. **Logo** [SHK⁺20]. **loop** [DS17, GCS⁺18]. **low** [HKGK20, LHJ⁺18, PZR⁺17, SGDL20]. **low-level** [LHJ⁺18, PZR⁺17, SGDL20]. **lower** [HKGK20]. **LR** [YNIC19].

m [Rei17]. **machine** [BBTK⁺17, MRG18, SVR17]. **machine-code** [SVR17]. **machines** [WDR18]. **macro** [CW20]. **macros** [CBTB20]. **made** [KKT19, PLSS17]. **MadMax** [GKJ⁺18]. **Makam** [SC18]. **making** [ACF17, JME20]. **management** [PVV⁺17]. **Manifest** [BP17]. **manipulating** [MMK⁺20, WCMH19]. **manipulation** [MKC18]. **manipulations** [QSL17]. **manual** [PVV⁺17]. **many** [KPSL18]. **map** [LMM⁺17b]. **masses** [BSO18, Pue17]. **matching** [CA18a]. **math.h** [LSA18]. **MATLAB** [ML20]. **matter** [MTDC19]. **means** [AG20]. **Measurable** [EPT18]. **mechanical** [ZdSOS19]. **Mechanized** [BBP20, TB19]. **meets** [DJKD20]. **memory** [CFL17, Coh18, CAL18, DJKD20, DJR18,

MMK⁺20, MW20, PVV⁺17, RV18, UAM17]. **merge** [CBA17, SDL18, ZH18]. **Mergeable** [KPSJ19]. **merging** [SZZ⁺19]. **Merlin** [BRS18]. **message** [Wad17]. **messages** [WCC17]. **messaging** [MAN17]. **meta** [WCR19]. **meta-programming** [WCR19]. **metaprogramming** [EUR⁺17]. **method** [WHZ⁺19]. **methods** [LF18]. **Migrating** [CCEW18]. **Milner** [MSI19]. **mining** [KNNR17]. **mix** [PT20]. **Mixed** [LMZ19]. **ML** [MHR20, WR18]. **modal** [BGM20, GSB19, KJJ⁺18, OLE19]. **Modalities** [Kav19]. **Model** [SVR17, UAM17, AAJN18, AAJ⁺19, EPT18, JDKD20, KLSV18, KRV19, KKT19, MLT17, MDSM19, RV18]. **Model-assisted** [SVR17]. **modeling** [BKPS18, SMC19]. **models** [BGC18, PFD⁺18, RWV19, UAM17]. **modern** [WCD17]. **modes** [BP19]. **Modular** [HFCG19, PETK19, TGSM19, AMPS19, CVS⁺17, ŠKG18, SCK⁺20, WCR19]. **module** [Cra19]. **modules** [EHAO18]. **Monadic** [RBG⁺18, SLDN17, FKLP17, TSKJB18]. **monads** [AHLM20, HT18, Hir19, MAA⁺19]. **monitoring** [EE18]. **monitors** [CMP20, GFD19]. **monotonic** [AFH⁺18]. **MOOC** [CDH17]. **morphisms** [NBDF19]. **MoSeL** [KJJ⁺18]. **mostly** [BBTSTH17]. **movies** [ACF17]. **Mtac2** [KZK⁺18]. **much** [MTDC19]. **multicopy** [PFD⁺18]. **multicopy-atomic** [PFD⁺18]. **multiparadigm** [VHSS20]. **multiparty** [SY19]. **multiple** [PHSR19]. **multiplexing** [DA18]. **multiplicative** [AG20].

name [MM19, PS18]. **name-based** [PS18]. **Narcissus** [DSPC⁺19]. **Natural** [QSL17, BGPT19, LMP18, YWDD17]. **nearly** [SFH⁺20]. **need** [BBBK17, HH19]. **needa** [BG18]. **negation** [BMP20]. **nested** [WYFA20]. **nested-parallel** [WYFA20]. **NetKAT** [VS20]. **network** [BGMW20]. **networks** [LWNN19]. **neural** [BLF⁺19, LWNN19]. **neural-backed** [BLF⁺19]. **never** [KMP19]. **next** [MHRV20, PA19b, CNH20]. **night** [BPPS20]. **NK** [VS20]. **No** [DMS17]. **No-brainer** [DMS17]. **nominally** [MT17]. **Non** [KCBR18, CFL17, CAL18, LMZ19, PVV⁺17, UST18]. **non-blocking** [PVV⁺17]. **non-deterministic** [UST18]. **Non-linear** [KCBR18, LMZ19]. **non-volatile** [CFL17, CAL18]. **nondeterministic** [WZS19]. **noninterference** [AB19]. **Normalization** [AVW17, BP18, ETG19]. **notation** [DS17, OA18]. **novice** [SSC⁺17]. **numerical** [SPV18].

O [SJM19]. **Object** [CAL18, FG18, LX19, RKS18, RKHL17, SGD17]. **Object-oriented** [CAL18, FG18]. **object-sensitive** [LX19]. **object-sensitivity** [RKS18]. **Objective** [CNH20]. **Objective-C** [CNH20]. **objects** [EJMmH17, GAGG⁺18, LF18, WHZ⁺19]. **oblivious** [DSLH20]. **OCaml** [BRS18, CDH17]. **once** [WSH⁺19]. **One** [KPSL18]. **Online** [GAGG⁺18, TBB⁺19]. **only** [BBTSTH17]. **operational** [HH18, Hir19, Mai17, PFD⁺18]. **operations** [EWR19, MHN19]. **opportunities** [VN18]. **optics** [BG18]. **Optimal** [AAJN18, AAJ⁺19, CCP18b, SFRM20, BP18]. **Optimization** [BSRC19]. **optimizations** [FSY⁺18, LHJ⁺18, SSH⁺19]. **optimize** [RAT17]. **optimized** [MA18]. **optimizing** [Mai17, OUM18]. **Orca** [CFD⁺17]. **order** [ABG⁺17, AK20, BBN⁺18, BOR18, CCP⁺18a, CPT19, CGM18, DK20, EPT18, EHAO18, Ham17, Jab20, KFEJ19, MP17, NDA⁺19, NGTHV18, PHL⁺18, ŠKV⁺18, SPKT18, SC18, UST18, WCD17]. **oriented** [CAL18, FG18]. **Origins** [BAP20, CNH20]. **ornamentation** [WR18]. **other** [MM19]. **ours** [JLP⁺20]. **out-of-gas** [GKJ⁺18]. **out-of-thin-air** [OD18]. **Oz** [VHSS20].

P [GS17, VS20]. **P/Taint** [GS17]. **page** [PETK19]. **pairs** [NA18]. **Parallel** [DHP18, AG20, CSM⁺17, Ell17b, FJM19, KVT20, MRG18, SLDN17, WYFA20]. **parallelism** [MA18, MAH18, MWA19, RLS20]. **Parallelization** [DTM⁺18, Mor19]. **Parameterized** [AAR20]. **Parametric** [HH18, NVD17, CHJ⁺19, CVS⁺17, KPSL18]. **Parametricity** [DPP18, AJSW17, AB19, NJA20, TTS18, TLT19]. **parsing** [HBP19]. **Partial** [JME20, BP18, CCP⁺18a, CPT19, LBH⁺18, LF18, LX19]. **Partially** [YvGK18]. **Partially-static** [YvGK18]. **partition** [MN18]. **pass** [MMK⁺20]. **past** [KSSL18]. **path** [MPAG20, MV19, RL19, ZYT⁺19]. **path-dependent** [RL19]. **pathology** [FGS⁺18]. **pattern** [CA18a]. **patterns** [SGD17]. **Paxos** [PLSS17]. **payment** [WZS19]. **pearl** [ACF17, Ber17, BG18, BBRM17, DLNV17, DMS17, KSSL18, PA19b, Per18, SAFF⁺17, SC18, SB19, WDR18, YF18]. **penultimate** [WZD⁺19]. **per-path** [ZYT⁺19]. **performance** [BCC⁺18, CCW18, GF18, LBH⁺18, SNB⁺19, ZYB⁺18]. **Persistence** [Pue17, RV18]. **Persistency** [RWNV20, RV18, RWV19]. **perspective** [CLPS19]. **perturbation** [ASMS20]. **phases** [UAM17]. **pi** [DdVMY19]. **pi-calculus** [DdVMY19]. **pipelines** [Spi17]. **placement** [PGFP17]. **Planalyzer** [TBB⁺19]. **planes** [BGMW20]. **platform** [CVS⁺17]. **play** [BS17]. **Plotkin** [BM20]. **point** [Ada19, ZZX⁺20]. **Pointer** [MW20, LTMS18, LX19]. **points** [GS17, JJO18, JJCO17, RKS18]. **points-to** [GS17, JJO18, JJCO17, RKS18]. **polling** [BC18]. **Polyadic** [MPV18]. **Polymorphic** [PHSR19, BBN⁺18, ISI17, WHZ⁺19, ZdSOS19]. **polymorphism** [DK19, HH18, OUM18, ZM17]. **portable** [SSH⁺19]. **POSIX** [GB20]. **possible** [BCRA18]. **power** [FKLP17, MKV18]. **PPI** [CNH20]. **PPI/Stepstone** [CNH20]. **Practical** [AMT17, BBN⁺18, CT19, Ham17, SPV18, WWC17, XCB⁺18, ZYT⁺19]. **Precise** [EWR19, JJO18, CVG⁺17, SAB17, WCH⁺19]. **Precision** [LTMS18, LX19]. **Precision-guided** [LTMS18]. **Precision-preserving** [LX19]. **predicate** [SB19]. **prediction** [KP18a, Pav20]. **predictive** [GRXB19, MKV18]. **preemptive** [LRS⁺20]. **presence** [TSKJB18]. **preserving** [BBG⁺20, BCRA18, LX19]. **pretty** [Ber17]. **preventing** [ZPG⁺17]. **Principality** [DR19]. **principled** [WR18]. **printer** [Ber17]. **printf** [Ada19]. **priorities** [MAH18]. **privacy** [AH18, NDA⁺19, SKS⁺19, WCHRP17, ZRH⁺19]. **privacy-aware** [SKS⁺19]. **private** [SA19]. **Probabilistic** [BZSL19, ACN18, ADDN17, BEG⁺18, BHL20, DK20, EPT18, HKGK20, HFCG19, LYRY20, LCTS⁺20, NeS17, OMN⁺18, VS20, WCGC18, WFC⁺20]. **probabilistically** [DSLH20]. **probability** [SFRM20]. **problem** [KNNR17]. **problems** [BBRM17, LY18]. **processes** [KMP19, XCB⁺18]. **processing** [SLDN17, SFVJ19]. **profiler** [BVG19]. **profiles** [PJP⁺18]. **profunctor** [BG18]. **Program** [GJJ⁺20, MRX⁺19, WDS18, ADDN17, ACM⁺18, BLF⁺19, COHY17, HKGK20, MHRV20, OLE19, SDL18, SBEV18, WWD18, WCR19, ZYT⁺19]. **programmable** [BGC18, LCTS⁺20, OA18]. **Programming** [SWT18, AP20, BGM19, BAP20, BBRM17, CT19, CDH17, CHJ⁺19, DPQS18, DMSM18, EPT18, EHAO18, FG18, HP19, JJKD18, Kin20, KFEJ19, KH18, LSSO18, LBH⁺18, LRGC19, MRG18, MDMSM19, NWP⁺18, OVCH19, OLC⁺18, PN17, Per18, PZR⁺17, SMM17, ŠKG18, SNJ⁺19, SFVJ19, SLO19, SM19, SC18, VMA19, WZD⁺19, WCR19, Yal17]. **programs** [ACN18, ABG⁺17, AZMT18, AG20, BvGKJ17, BNS20, BKPS18,

BEG⁺18, BHY⁺20, CR19, CSM⁺17, DK20, FJM19, HFCG19, Jab20, KMLD20, LYRY20, LZ17, LY18, MHN19, MMK⁺20, MRdAP18, NBDF19, NcS17, NGTHV18, QGG19, RMZ⁺20, RSPC17, SA19, SFH⁺20, TB19, UST18, WCMH19, WFC⁺20, WYFA20, yXZH⁺20]. **Progress** [LF18]. **Project** [PVV⁺17]. **projection** [NA18]. **Prolog** [SC18]. **promises** [AZMT18, MLT17]. **proof** [GCST19, MMKK18, RKHL17]. **proof-irrelevance** [GCST19]. **proofs** [AH18, AAC⁺18, AG20, BHY⁺20, FV20, KPE18, KJJ⁺18, LMP18]. **properties** [ASMS20, BZSL19, BGG⁺20, OCDR17, TGSM19]. **property** [LHP19]. **prophecy** [JLP⁺20]. **protocols** [BSRC19, CFL17, Mai17, PLSS17, SWT18]. **Prototyping** [AHM⁺17, SC18]. **provably** [PBS⁺17, QSL17]. **provably-correct** [QSL17]. **prove** [Ham17]. **Provenance** [RMZ⁺20]. **Provenance-guided** [RMZ⁺20]. **Proving** [BEG⁺18, WFC⁺20, LSA18, SWT18, SM19, TSKJB18]. **PSPACE** [AAR20]. **PSPACE-complete** [AAR20]. **push** [BC18, KMLD20].

quantifier [LMP18]. **quantifiers** [NVD17]. **Quantitative** [OLE19]. **quantum** [BHY⁺20, CdV20, LY18]. **quasiquotes** [PVSK18]. **Qubit** [SdSCQ19]. **queries** [SKS⁺19, WCB18]. **query** [AHM⁺17, YWDD17]. **QuickChecking** [MJK⁺17]. **quotient** [KKA19, MMF⁺18].

R [Cha20, GV19]. **race** [AMT17, BGOS18, GRXB19, MKV18, Pav20, WCBG17]. **RacerD** [BGOS18]. **Racket** [FDD⁺19]. **Racketensis** [SAFF⁺17]. **radio** [Mai17]. **random** [MN18, OMO19, WCGC18]. **Randomized** [OMN⁺18, WFC⁺20]. **rank** [DK19]. **ranked** [ZdSOS19]. **ranking** [ACN18]. **rational** [NBP⁺18]. **RaTT** [BGM19]. **reachability** [CCP18b, TGSM19]. **Reactive** [BC18, BGM19, DMSM18, PN17, Per18]. **reads** [AAJ⁺19]. **reads-from** [AAJ⁺19]. **Ready** [BSZL⁺18]. **real** [BSZL⁺18, SMC19]. **real-world** [BSZL⁺18]. **reasonable** [FKR20]. **Reasonably** [OA18, PTFT19]. **Reasoning** [ADZ17, CB18, EWR19, HVH20, HBK20, KZK⁺18, KNNJ18, KCBR18, MLT17, Mor19, OLE19, PLSS17, WCB18]. **Rebuilding** [FDD⁺19]. **Recalling** [AFH⁺18]. **reclamation** [Coh18, MW20]. **recommendation** [LYB⁺19]. **reconciled** [BCC⁺18]. **Reconciling** [LHJ⁺18]. **reconstruction** [NBP⁺18]. **recovery** [CAL18]. **Recurrence** [KMLD20]. **recursion** [CGM18, WCGC18]. **recursive** [LMZ19, MV19, SSK17, yXZH⁺20]. **Reducing** [PHL⁺18]. **Reduction** [AHLM20, CCP⁺18a, CPT19, Mor19]. **Reductions** [FV20]. **redundancy** [DS17]. **refactoring** [SZZ⁺19, VN18]. **refactoring-aware** [SZZ⁺19]. **references** [Jab20]. **Refinement** [CT19, RKS18, VTC⁺18, AKL19, CJ17, GJJ⁺20, SNCM19, UST18, WDS18]. **refinements** [RBG⁺18]. **Reflection** [SHTZ⁺19, FKLP17, VTC⁺18]. **Reflection-aware** [SHTZ⁺19]. **Refunctionalization** [WDR18]. **regression** [SHTZ⁺19]. **regular** [PHXD19]. **reinforcement** [CWF⁺19]. **relation** [TSKJB18]. **Relational** [BHY⁺20, CWF⁺19, GHHW18, QGG19, WWD18, ABG⁺17, ASMS20, BFV18, BPPS18, HPC18, MHRV20, RBG⁺18, TB19, WCB18]. **relations** [AKL19, LPP18]. **Relatively** [UST18]. **relaxed** [DJKD20, DJR18]. **release** [AAJN18]. **release-acquire** [AAJN18]. **Reliable** [BKN19, KKCV17]. **reloaded** [SM19]. **repair** [PHXD19]. **ReplaceAll** [CCH⁺18]. **replacement** [SKR20]. **replacing** [VN18]. **replaying** [KSSL18]. **replicated** [KPSJ19, LRGC19]. **replication** [KESJ18]. **report** [ACM⁺18, AHM⁺17, BRS18, BS17,

BSZL⁺¹⁸, CDD⁺¹⁹, FDD⁺¹⁹, HP19, YW19]. **representation** [LWNN19]. **representing** [yXZH⁺²⁰]. **reset** [BBP20, WZD⁺¹⁹]. **resolution** [BXMS19, ZGSN17, ZH18]. **resolve** [KNNR17]. **resource** [HVH20]. **responsive** [MWA19]. **Restricting** [AM17]. **results** [OD18]. **reusable** [KE19]. **reuse** [DFS18]. **reusing** [CB17]. **revisited** [Ada19, SY19, TLT19]. **right** [MAH18]. **Robust** [BFV18, SGD17, SMC19]. **role** [CHJ⁺¹⁹, WCVE19]. **role-parametric** [CHJ⁺¹⁹]. **roles** [FG18]. **root** [WMW18]. **rows** [MM19]. **RRB** [Pue17]. **RRB-vectors** [Pue17]. **rule** [MMKK18, SZD⁺¹⁷]. **runST** [TSKJB18]. **runtime** [DdVMY19]. **Rust** [AMPS19, JJKD18, JDKD20]. **RustBelt** [DJKD20, JJKD18]. **Ryū** [Ada19].

S [Cha20]. **Safe** [KESJ18, AAC⁺¹⁸, BP18, CT19, DMSM18, MS19, OLC⁺¹⁸, PBS⁺¹⁷, PA19a, PVV⁺¹⁷, ZM19]. **Safer** [SNJ⁺¹⁹]. **Safety** [KP18b, CCW18, FV20, FJM19, MMK⁺²⁰, PHL⁺¹⁸]. **same** [CY19]. **sampling** [SFRM20, ZYT⁺¹⁹]. **sandboxing** [SGDL20]. **SAVI** [EJMmH17]. **Scala** [KMV19]. **scalable** [JJO18, SLO19]. **ScalaLoci** [WKS18]. **scale** [KMV19]. **Scaling** [CDH17]. **scan** [Ell17b]. **schedulers** [LRS⁺²⁰]. **scheduling** [Mel19]. **Scheme** [FDD⁺¹⁹]. **schemes** [CGM18]. **science** [Cha20]. **Scilla** [SNJ⁺¹⁹]. **scope** [AAC⁺¹⁸, PKW17]. **scoped** [BPPS20]. **Scopes** [vAPRV18]. **Scott** [BM20]. **scripts** [CB17, KM17, WDS17]. **Seam** [PBS⁺¹⁷]. **search** [LYB⁺¹⁹]. **second** [Ham17]. **second-order** [Ham17]. **Secure** [AFF⁺¹⁸]. **securing** [JJKD18]. **security** [LZ18]. **Segal** [CK18]. **selection** [RAJ⁺¹⁷, SHTZ⁺¹⁹]. **Selective** [MLMD19]. **Semantics** [DK20, AAJN18, AAC⁺¹⁸, BBP20, CY19, GB20, HT18, Hir19, KMP19, LCTS⁺²⁰, Mai17, Mel19, MRdAP18, RV18, RWV19, RWNV20, SB19]. **Semi** [CK18]. **Semi-Segal** [CK18]. **Seminaïve** [AK20].

semistructured [CBA17]. **sensitive** [LX19]. **sensitivity** [BEG⁺¹⁸, JJCO17, LTMS18, LX19, RKS18, WFC⁺²⁰]. **separation** [BHL20, HBK20, JLP⁺²⁰, KJJ⁺¹⁸, NBDF19, TLKC18, TGSM19, VPD19]. **separation-logic-verified** [VPD19]. **Seq** [SNB⁺¹⁹]. **Sequential** [LRGC19, AAJ⁺¹⁹]. **sequentialization** [BvGKJ17, FJM19]. **server** [BRS18, LMM17a]. **serverless** [AFF⁺¹⁸, JPBG19]. **services** [BBB⁺¹⁷, BC18, WCD17]. **session** [BP17, CY19, CHJ⁺¹⁹, DHP18, FLMD19, HBK20, ITVW17, SY19, TV20]. **session-type** [HBK20]. **sessions** [MP17]. **set** [BSZL⁺¹⁸]. **sets** [ZFS⁺¹⁹]. **seven** [BBRM17]. **shader** [DELT17]. **share** [DA18]. **ShareJIT** [XCB⁺¹⁸]. **sharing** [BP17, EJMmH17, WHZ⁺¹⁹, XCB⁺¹⁸]. **shell** [GB20]. **shielding** [VREV19]. **shift** [WZD⁺¹⁹]. **shift/reset** [WZD⁺¹⁹]. **shifting** [LKS⁺²⁰]. **shot** [WCH⁺¹⁹]. **should** [CSM⁺¹⁷]. **side** [CY19]. **sides** [CY19]. **signatures** [AHLM20]. **Simple** [AB19, AP20, Ell18, RKHL17]. **Simplicity** [OBL⁺¹⁸]. **simplification** [Mor19]. **Simplifying** [PFD⁺¹⁸]. **Simply** [BGM19, BMP20]. **simulation** [BS17]. **simulations** [NBDF19]. **since** [HK20]. **single** [MMK⁺²⁰]. **single-pass** [MMK⁺²⁰]. **sized** [AVW17, AD17, Dan18]. **sized-type** [AD17]. **Skip** [CB17]. **slicing** [RKS18]. **Smalltalk** [Ing20]. **Smalltalk-72** [Ing20]. **smart** [GKJ⁺¹⁸, GAGG⁺¹⁸, SNJ⁺¹⁹, WZS19]. **SMT** [VTC⁺¹⁸]. **snapshots** [GFFS17]. **snowflake** [PVV⁺¹⁷]. **Soft** [NGTHV18]. **Software** [DA18, SZZ⁺¹⁹, SScWS19]. **solid** [SMC19]. **solved** [HJL⁺¹⁸]. **solver** [RGSNT17, WLH⁺¹⁷, dVPJ20]. **solver-aided** [RGSNT17, WLH⁺¹⁷]. **solving** [BBRM17]. **Sound** [BBTSTH17, DK19, EE18, KP18a, KE19, MT17, SMC19, GRXB19, LCTS⁺²⁰, Pav20].

soundness [GF18, KPE18, RKHL17]. **source** [GCS⁺18, YMJ17]. **source-level** [GCS⁺18]. **space** [BGM19, FKR20, PA19a, ZH18]. **SpaceSearch** [WLH⁺17]. **sparse** [CKA18, KNNR17]. **spatial** [OCDR17]. **specialization** [BP18]. **specialization-safe** [BP18]. **specific** [BGC18, PLS⁺19]. **Specification** [AKL19, AMPS19, CVS⁺17, KNNR17, Rei17, WVdAE17]. **specifications** [BNS20, MRX⁺19, SZD⁺17, WCH⁺19]. **Specifying** [NBDF19]. **spectrum** [GF18]. **spectulative** [FSY⁺18]. **speed** [BC18]. **Speeding** [WCB18]. **split** [AGLK18]. **SPMD** [RLS20]. **spreadsheet** [BBZ18]. **spreadsheets** [IS18]. **Spy** [dVPJ20]. **SQLizer** [YWDD17]. **Squeak** [Ing20]. **stability** [GCS⁺18]. **stable** [EPT18]. **stack** [BKN19, SDB19]. **Stacked** [JDKD20]. **Staged** [WCR19, Yal17]. **stages** [SMM17]. **Stainless** [HVK19]. **Standard** [MHR20]. **start** [WSH⁺19]. **state** [AFH⁺18, TSKJB18, VN18]. **stateful** [NGTHV18]. **stateless** [AAJN18, AAJ⁺19, KLSV18, KRV19]. **Static** [EHAO18, PGFP17, SMM17, SNCM19, BGOS18, MRdAP18, SHTZ⁺19, YvGK18, ZGSN17]. **statically** [CHJ⁺19, DA18, NDA⁺19, PVSK18]. **statically-typed** [CHJ⁺19, PVSK18]. **step** [BS17]. **Stepstone** [CNH20]. **StkTokens** [SDB19]. **stochastic** [LYRY20]. **stores** [LRGC19]. **strangers** [CSM⁺17]. **Strategy** [FK18]. **Strict** [HT18]. **String** [HJL⁺18, CCH⁺18]. **stroll** [SAFF⁺17]. **strong** [BBBK17, BVG19, GKMB17]. **structural** [Hir19, LYB⁺19, MS19]. **structure** [Coh18, QSL17]. **structured** [EWR19, ZH18]. **structures** [CHJ⁺19, KSW18, MW20, WCMH19]. **students** [WC17]. **study** [GCS⁺18, KMV19, MHN19]. **style** [BGM19]. **subclass** [VN18]. **subgraph** [SdSCQ19]. **sublanguage** [YW19]. **substitution** [PT20]. **subsumes** [BM20]. **subtracting** [YF18]. **subtype** [WHZ⁺19]. **subtyping** [MPAG20, MT18, NBP⁺18, YdSO17]. **sugar** [PKW17]. **suggestions** [MGL⁺19]. **Super** [ACF17]. **supermartingales** [ACN18]. **supervised** [CR19]. **superword** [MA18]. **sure** [HFCG19, MMKK18]. **surviving** [GKJ⁺18]. **swapping** [SdSCQ19]. **swift** [BSRC19]. **Symbolic** [CKT18, NcS17, BT18, HBP19, KKT19, TLKC18, WCB18]. **symbolic-heap** [TLKC18]. **symmetric** [BJSO20, MMF⁺19, PHSR19]. **synchronization** [Mel19]. **synchronizing** [DTM⁺18]. **synchronous** [BBP20, CY19]. **syntactic** [PKW17]. **syntax** [KPSL18, YNIC19]. **syntaxes** [AAC⁺18]. **Synthesis** [BNS20, WDS17, ASMS20, BLF⁺19, BFV18, CB18, FK18, GJJ⁺20, KCBR18, MRX⁺19, MGL⁺19, QSL17, RMZ⁺20, SVR17, TLKC18, WDS18, WWD18, YWDD17]. **synthesis-based** [CB18]. **Synthesizing** [AH18, MMF⁺18, MFP⁺18, MMF⁺19, SKR20, SZD⁺17, SA19, END⁺18, PJP⁺18]. **system** [CFD⁺17, MAN17, NDA⁺19, SScWS19, UST18, WKS18, HVK19]. **systems** [BHP⁺19, CB18, CBTB20, DPQS18, GKMB17, MMJ18, OMN⁺18, OMO19, Pue17, RNDJ19, SJL19]. **SyTeCi** [Jab20]. **tactics** [KZK⁺18]. **taint** [GS17, GS17]. **tandem** [LZ17]. **tasks** [CSM⁺17]. **Taylor** [BM20]. **Teaching** [ACM⁺18, HP19]. **technique** [SZZ⁺19]. **techniques** [Dan18]. **technology** [CW20]. **temporal** [BNS20, DHP18, LRS⁺20]. **tensor** [CKA18, KKC⁺17]. **termination** [ACN18, HFCG19, LY18, MMKK18, WFC⁺20]. **Test** [SPKT18, CPKG17, KM17, RNDJ19, RGSNT17, SHTZ⁺19]. **test-input** [CPKG17]. **Testing** [PN17, DPQS18, DELT17, KM17, LHP19, MN18, OMN⁺18, OMO19]. **tests**

[LZ17, SFH⁺20]. **their** [AHLM20, AAC⁺18, RSPC17]. **them** [DA18]. **Theorems** [AJSW17, PA19b]. **theories** [Ham17]. **theory** [AÖV18, CH19, GSB19, NLA19, NVD17, PTFT19]. **thin** [OD18]. **Thread** [DMSM18]. **Thread-safe** [DMSM18]. **threats** [TBB⁺19]. **three** [SDL18, ZRH⁺19]. **three-level** [ZRH⁺19]. **three-way** [SDL18]. **Thriving** [Str20]. **tiers** [FLMD19]. **Tight** [AGLK18]. **time** [BBG⁺20, EWR19, FKR20, NJA20, RAT17, SFH⁺20, WFC⁺20, WSH⁺19]. **timeline** [LRS⁺20]. **TiML** [WWC17]. **TLA** [KKT19]. **together** [KNNJ18, NJA20]. **token** [SdSCQ19]. **tolerance** [BGC18, MN18]. **tolerant** [MDSM19, Per18]. **too** [DA18]. **tool** [KPSL18]. **toolchain** [SMN⁺18]. **tools** [WLH⁺17]. **towers** [AR18]. **Trace** [LCTS⁺20, OMO19, AKL19]. **tractable** [EE18]. **transactional** [BE19, RWV19]. **Transactions** [DJR18]. **transducers** [HJL⁺18]. **transformation** [KPSL18, WMLK18]. **transformations** [GCS⁺18]. **transformer** [SB19]. **Transforming** [LZ17]. **translation** [BCRA18]. **transparent** [WMLK18]. **transport** [TTS18]. **traversals** [KPW18, SSK17]. **tree** [AM17, SSK17, WDS17]. **TreeFuser** [SSK17]. **trees** [yXZH⁺20]. **triangle** [PT20]. **trustworthy** [VREV19]. **TSO** [AAR20, RV18]. **tunneling** [JJO18, ZM19]. **Two** [CY19]. **Type** [BCRA18, KM17, WH19, AÖV18, AAC⁺18, AD17, BXMS19, CT19, CH19, CB18, CBTB20, CVG⁺17, CFD⁺17, DPP18, GSB19, GF18, GJJ⁺20, HBK20, JME20, KFEJ19, MS19, MSI19, MV19, ME17, NDA⁺19, NLA19, NVD17, OUM18, PTFT19, SSC⁺17, SBF⁺20, UST18, VTV18, VN18, WC17, WCC17, ZM17, ZdSOS19]. **type-directed** [OUM18]. **type-error** [WCC17]. **Type-guided** [WH19, GJJ⁺20]. **type-level** [CT19, KFEJ19].

Type-preserving [BCRA18]. **type-safe** [CT19, MS19]. **typechecking** [DK19]. **typed** [BMP20, CHJ⁺19, CDD⁺19, KZK⁺18, OVCH19, PVSK18, PRT⁺18, SM19, VMA19]. **types** [AVW17, AJSW17, AMPS19, BP17, BCRA18, CCEW18, CK18, CL17, CY19, CHJ⁺19, CH19, CKT18, CA18b, DdVMY19, Dan18, DHP18, DFS18, DK19, ETG19, FLMD19, GFD19, ITVW17, KPSJ19, KKA19, LCTS⁺20, LMZ19, MPAG20, MPV18, MW20, MP20, MV19, MM19, MT18, OBL⁺18, OLE19, RKHL17, RL19, SY19, TV20, VMA19, WVdAE17, WCVE19, WMW18, vAPRV18]. **TypeScript** [KM17]. **typing** [BBTSTH17, CCW18, CL17, CLPS19, CJ17, FGS⁺18, ISI17, MSI19, MT17, RAT17, YdSO17]. **typings** [AGLK18].

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