

A Bibliography of Publications about the Python Scripting and Programming Language

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Abstract

This bibliography records books about the Python scripting and programming Language and related software.

Title word cross-reference

#105 [Bri12a]. #106 [Bri12b].

1 [DB17, Hug18, RKVL14]. 1.5 [SAA18].
\$24.95 [Lee17]. 3 [Bra13, ML16a, Pet02,
PBN+09, SDS00, ZL20]. \$34.95 [Ano00a].
\$44.95 [Ano97a]. *D* [HH17]. Γ [DEMM19].
N [HH17]. *Q* [JWHS16].

-D [Pet02, RKVL14]. -method [DEMM19].

-Statistics [JWHS16].

.NET [SKS08, HF06, SM04, Stu07].

/Python [LWH12, SV14].

1.0 [KPK+17]. 10 [SV14]. 1004 [RG20].
10th [ACM97]. 11 [Ano18]. 11th [IEE97a].
1997 [Ano97d].

2 [DPSD08, JNN13, LS17, MP19a]. 2.0
[Ano00c, MBW07, Seg07, SJL18, Yes15]. 2.2
[Chu02b]. 2.6 [Pay11]. 2000 [Ano00c]. 2001
[Ano01a]. 2009 [Jan10]. 23 [ESM98].
251pp. [Gve09].

3 [Bea09a, Bea12, BJ14a, Fas18, HB16,
Kiu13, Lee17, MP19a, MH15, Per14b, Phi10,

Phi15, Pil09, SW15, SS21, Sum09, Sum10].
3.0 [MMEH08, Per14b, RSPJ21, Wei09]. **3.1** [Pay11]. **3D** [PAB+97, SML06].

4 [CSZ+19, Cla15]. **4th** [Ass96, USE00].

6 [Ano13]. **6th** [Ano97c].

7 [Ano15a]. **77** [GH18, GHN19].

839 [Kir04].

9 [Ano15b]. **910** [Kor11]. **923** [Wim12]. **'96** [HK95, Ass96]. **'97** [ACM97]. **978** [Ano13, Ano15a, Ano15b, Cla15, Lee17].
978-0-12-418676-7 [Ano14].
978-0-12-418683-5 [Ano14].
978-0-521-72596-5 [Gve09].
978-0-691-17050-3 [Lee17].
978-1-4665-0455-4 [Cla15].
978-1-59327-590-7 [Ano15a].
978-1-59327-640-9 [Ano15b].
978-1-59749-957-6 [Ano13]. **997** [Spe19].

absolute [Daw03, Daw06, Daw10, MTS+18].
Abstraction [Hen08, LP19]. **Abstractions** [RHM+17]. **accelerate** [LHM14].
Accelerating [ZLBF14, YPB16].
acceleration [Wu13]. **Accelerator** [RSRT19]. **accelerators** [Mar18].
acceptance [Sal14]. **access** [BB17].
Accessing [Buc14]. **Accord** [Sta19].
acquisition [Myr15]. **activation** [SH19b].
Active [BBB02, CHG+16, Mit00].
Active-subspaces [CHG+16]. **ActiveState** [Ano00c]. **ACTS** [DGMP09]. **Ada** [Bri12a, Bri12b, Men09, Mos20, Och09, RAH+01].
adaptive [SVY09]. **Adding** [IOC+12, Tab10]. **Adjoint** [HA20].
Administration [Bru09, GJ08, Sil14].
adsorbed [SSH16]. **Advanced** [Chu07a, LT03, DDK19, Lan13]. **Advances** [Poo16, Spo12]. **Adventures** [Ric15]. **again** [Cas20]. **against** [Pre03]. **age** [LL08].

Agent [EVV12]. **agents** [HMD+96, Lot14b].
Agglomerative [Mül13]. **aggregate** [VFMM08]. **Agile** [Suc13, VB08, You08].
Agoren [Ano01a]. **Agreement** [EVV12].
AI [ZGL20]. **AIL** [vd91]. **Ajax** [RDS07].
Ajax-powered [RDS07]. **aktuell** [EK08].
aktuelles [Lin06b]. **Alberta** [ACM97].
Alexander [Ish17]. **algebra** [BCG05, JCMG11, Sah15]. **Algorithm** [BTR14, Wit15, Kir04, Kor11, RG20, Spe19, Tau16, Wim12]. **Algorithms** [BH12, Het10, Het14, Jan10, KBLJ18, Di 13, DV21, RZ09, VBM+18, Wep15]. **Alias** [GLS+10]. **Alice** [PAB+97, UVa95].
all-atom [HQF+20]. **alle** [Lin06b, The09].
Allen [Gve09]. **aller** [DF00]. **allow** [BM18].
always [Buc15]. **Amit** [Ano15b]. **analyses** [Spi18]. **Analysis** [BHS18, CH17, GdGB+18, GDP18, HU17, ISMA18, KSB12, LS16, MAFM21, McK12, Mil18, MB07, OZW18, TGEA09, VPO19, XL18, AM19, Bow15, Cue13, FPSZ21, GFB+14, GLS+10, Hug18, Idr14, Ish17, IOC+12, ICVG14, MP19a, NMGB17, Nel15, RJAL09, RRRGVD19, SHFJ18, Sto13, SH19b, Tom15, Wes15, Yes15]. **analysts** [O'C13]. **Analytical** [NCS17, MS15].
analytics [CFÁA+20, DDK19, Mil14, Mil15, Nel15, RO15a, SK19]. **analyze** [Lay15, Lot14b, MB17, Wes15]. **analyzer** [MTPHH18]. **analyzing** [HFF+17, MK16, PMBF17]. **Andrew** [Ish17]. **Android** [Bar11]. **Andy** [Ano00a].
angewendet [Wei06a]. **angle** [MTPHH18].
animation [vdH18]. **Annotated** [Di 13, Wep15, Bro00]. **Annotator** [HYG16]. **Annual** [ACM97, Ass96, USE00].
anomalies [MTS+18]. **Anthology** [Anoxxb]. **Antlab** [GMS17]. **Any** [Pre03].
Apache [TSC02]. **API** [Ano98b, AJH+12, BG17, FSZD20, Kuc98c, Men09, SGPHD+17, Smi17, van98c]. **APIs** [Meh15]. **App** [Pip15, San15]. **Application** [Ano01b, BSSz+20, Gut16, Orb18, Bah15,

BL97a, Buc15, HQF⁺20, HCPF95, Ree04, Rem01b, SV14].

application-programming [SV14].

Applications

[AJH⁺12, Ble20, DGMP09, ML16a, MSR03, Nil07a, Pul00, RM19, Shi07, BL97b, BCG05, CV15, CB96, DAJ⁺15, Di 13, Gup15, HF06, Har12, Hig03, Jos15, Kar14, Lot14a, Pip15, RDS07, RG10, RCRS06, SW15, ST⁺07, SML06, Seg07, Ull15, Wei15, Wep15, Yan14, YHA⁺16, Zac15]. **apply** [Idr14]. **applying** [Sal14]. **Apprendre** [Swi09].

apprenticeships [Lon08]. **Approach** [Evv12, Joh15, Mat16, Mis19, Arb14, Bro06, FMPS17, HHK⁺09, SML06, SWD15, Sha03].

Approaches

[KLM14, KLM15, Bra13, MD15, RMZG06].

Approximate [FV18]. **approxposterior**

[FV18]. **April** [IEE97a]. **ARC** [RSPJ21, Ano00c]. **ArcGIS** [Tom15].

ArcGIS-geospatial [Tom15].

Architecture [HM18, LLL⁺20]. **Archive** [Wal97]. **archives** [Bro00]. **ArcPy** [Tom15].

Arduino [DAJ⁺15, KSH14]. **Arithmetic**

[KJ14, Bri06]. **Arizona** [Ano97d]. **ARL's** [War18]. **ARM** [HC16]. **array** [Fas18].

Arrays [HH17]. **art** [Wei15, HC16]. **Article** [Wat95]. **Artificial** [Tan06]. **ASCII** [IG19].

Asia [IEE97b]. **aspiring** [Lot14b].

assembly [TBJ18]. **Assessing** [LJ19].

Associates [Jan10]. **AST**

[HWW⁺15, ZLBF14]. **Astroinformatics**

[MAC14]. **astronomical** [HJPB17].

astronomy [Ish17, ICVG14]. **asymmetric**

[CFSK14]. **Atlanta** [USE00]. **ATNF**

[Pit18]. **atom** [HQF⁺20]. **Atomic**

[OPA⁺14, RSPJ21]. **atomistic** [HHP⁺16].

Auction [Evv12]. **Auction-Based**

[Evv12]. **Ausdrücke** [SKS08]. **AutoCNet**

[LRPD18]. **autoDIAS** [SH19b]. **automan**

[Ram18]. **Automate** [Swe14, Tom15].

Automated [Bea98, HAB⁺20, LMW12,

LLL⁺20, TS14, Law15, SH19b, LW10].

Automatic

[MAC14, MO14, RJAL09, SL21].

Automating [Ble20, RHM⁺17, JAGP14].

Automation [OZW18, Ram18, Ste06].

autonomous [FMPS17, Len15]. **avancées**

[Chu07a]. **awarded** [Bal12]. **aware**

[ABF13, VC18]. **Awk** [Bla02, Bla04]. **AWS**

[Ano20].

B [Gve09]. **backed** [YHA⁺16]. **Bad**

[Bea09a]. **Banded** [Wim12]. **Banff**

[ACM97]. **Based**

[Ang00a, Aya14, BBB02, DGMP09, EVV12,

Nor17, Ram18, RSRT19, SN12, ZGL20,

ABGD⁺20, AZLY18, BKMY03, BKMY04,

BB17, CFMR19, CM20, CB96, Dec04,

GPP⁺21, Gup15, JAGP14, KSH14, Lac06,

LYX⁺18, OL17, Ott18, PFH⁺16, PBN⁺09,

RS17, Rad06, Rad08, TEG18, YKKD19].

bases [Swi09]. **Bash** [Bla02, Bla04, Ano12].

Basic [Het14, Tro96a, Het10]. **basierend**

[Lac06]. **basierte** [Ric14]. **basis** [Kir04].

Bastard [RAH⁺01]. **Batteries** [Dub07].

Battery [KBC⁺20]. **Battery-free**

[KBC⁺20]. **Bayes** [Sto13]. **Bayesian**

[JG17, PHF10, Sto13, SBMD14]. **BDD**

[Sal14]. **BeagleBone**

[Hia15, Ric13, Ric14, Buc14]. **Beautiful**

[Nai14]. **become** [BM15]. **Bed** [Ngu08a].

Beedle [Jan10]. **beginner**

[Daw03, Daw06, Daw10, Swe13]. **beginners**

[Can14, Cha15, Fla08, She15, Swe14].

Beginning [Het05, Het08, KM15, McG07a,

Mue14, Pay11, Vai09, Vai14]. **behandelt**

[LAG07]. **behavior** [WMM18]. **Beispiele**

[The09]. **Beispielen** [The09]. **believe**

[KI19]. **BEM** [SBA⁺15]. **benefits** [CEI⁺12].

Best [Hug97, Sco17, LS98, ZKB⁺08].

best-bet [LS98]. **bet** [LS98]. **Better**

[Sit02, SW14, Sla15]. **between**

[DOS17, LFT09, Sta17]. **beyond**

[BMK03, GL08b, GL09, SB15]. **BFree**

[KBC⁺20]. **Big** [VSS17]. **BIL** [BM18].

Bildbearbeitung [DF00]. **Bilder** [DF00].

Binary [AVS20]. **Bind** [Cot03]. **binding**

[KVSC21]. **Bindings** [LFN⁺11, RJAL09]. **Biocomputing** [HK95]. **Bioinformatics** [AVS20, Ant15, Fla08, Bas08, Bas10, Kin09, SNB⁺19, SB15]. **Biological** [AJH⁺12, VBB18, XL18]. **Biological-Modeling** [AJH⁺12]. **biologists** [LHB14]. **Biology** [MGS07, Di 13, LHM14, SB15, Wep15]. **biomolecular** [CBB14, CCFB16]. **bionic** [KI19]. **Black** [Sei14, Buc14, Ano15a]. **Blackboard** [UVa95]. **BLAKE** [AMPH14]. **blame** [VSS17]. **BLAS** [FSZD20]. **BLASFEO** [FSZD20]. **Blaxxun** [Ano00c]. **Bleeding** [Wil97a]. **Blitz** [AJJF14]. **Blood** [DB17]. **body** [Gra18]. **Book** [Ano97b, Ano97a, Ano00b, Ano00a, Ano13, Ano14, Ano15a, Ano15b, Bax01, Gve09, Hug01, Ish17, Ish19, Jan10, Joh97, Lak17, Lee17, LMW12, Mat16, Orb18, Roo98, Cha15, GHT06, GHT08]. **Bookshelf** [McG98c, Wil97b, Wil00, Wil01, Wil02]. **Boost** [Moo21, Lan13]. **boring** [Swe14]. **Borland** [Ano00c]. **Bose** [Nil07a]. **Both** [Hug97, Sma12, HB16]. **Boundary** [CFCB17, CCFB16, ŠBA⁺15, CBB14]. **Boundary-integral** [CFCB17]. **Box** [RAH⁺01]. **Boy** [RAH⁺01]. **breadth** [Sha03]. **breadth-first** [Sha03]. **Bringing** [Mos20]. **Browser** [BP17, CB96]. **browser-based** [CB96]. **BSD** [DF00]. **BSP** [Hin03, HLSØ06]. **Buch** [vF97]. **Buchs** [The09]. **bug** [KCS11, LWH⁺10]. **bugs** [Ros08]. **Build** [RM19, Ada14, Bah15, Jos15, Lot14a, Nai14, Pip15, SML06, Tos09, Yan14, Zac15]. **Building** [BL97b, CR15, Gup15, Kar14, KDC⁺18, Rem01b, Ste06, DPH16, HF06, Hig03, HWW⁺15, RG10, Seg07, VBM⁺18]. **Buildings** [ZGL20]. **built** [DTM⁺18, Hos12]. **built-in** [DTM⁺18]. **Business** [Ano01b].

C [DF00, Jan10, Ano18, Bai08, Bea96, Bea98, BFM18, Bri06, BM18, CSZ⁺19, Cot03, Dal01, EPM09, GH18, GHN19, HAGH18, Kor11, LWH12, Nag06, Ngu08c, Pre03, Pul00, RZ09, Sah12, SV14, SML06, SGPHD⁺17, Smi18, SM04, Stu07, WX18, WMA12, Wil00, Yes15, Zho97, van98c]. **C#** [SKS08]. **C/C** [Bea98, Pul00, WMA12]. **CA** [Ano97a, Ano00a, Ass96]. **CAD** [Ano00c, Ngu08d]. **calculating** [Gre16]. **Calculation** [RG20, CFSK14, MR18, QZWU19]. **Calculations** [Kor11, OZW18, Cri18, Gra18, KPK⁺17, RSPJ21]. **Calculus** [BH12, Sah15]. **California** [ACM92, Ano97c]. **caloric** [SAA18]. **CALPHAD** [OL17]. **CALPHAD-based** [OL17]. **Cambridge** [Gve09]. **Can** [Dör08, CBB14]. **Canada** [ACM97, USE96]. **canonical** [PHH⁺12]. **can't** [KI19]. **capabilities** [She97]. **capacity** [Zie19b]. **capture** [SGPHD⁺17]. **Careers** [Ano20, Cas20]. **Carlo** [ABGD⁺20, DEMM19, HQF⁺20, Mor17, Nil07b, PHH⁺12]. **Case** [JWHS16, AJJF14, HPH12, LJ19, LHM14, OMGDG14, RCRS06, ÜK12]. **Case-Control** [JWHS16]. **catalogue** [Pit18, Var16]. **cavities** [CBB14]. **CD** [DF00, Lin06b, The09]. **cell** [RKVL14]. **cellML** [CM07]. **census** [Smi17]. **CFD** [TGEA09]. **CG** [AJH⁺12]. **CGI** [Wei06a, Kuc98b, RG00, Van97b]. **CGI-Scripting** [Wei06a]. **cgimodel** [RG00]. **chain** [HQF⁺20, Mau02, You08]. **Challenges** [Sie17]. **Chameleon** [SVY09]. **change** [Cas17]. **Changes** [RAH⁺01]. **channel** [SGPHD⁺17]. **Chapman** [Ano01a]. **characteristics** [CSRV13]. **charge** [ABS20]. **Charts** [SJM18, Ada14]. **ChebTools** [Ano18]. **Chebyshev** [Ano18]. **checking** [Hen08, RF16]. **chemical** [HPT⁺16, NCS17]. **chemistry** [Dah18a, VAP⁺21]. **ChemPy** [Dah18a]. **Chet** [Ano14]. **CHICOM** [GHN19]. **Chimera** [HCPF95]. **Chityala** [Myr15]. **CHIWEI** [GH18]. **choice** [AJJF14]. **Choosing** [LS97]. **Christian**

[Lak17]. **Chromatin** [CSZ⁺19]. **ChromStruct** [CSZ⁺19]. **Ciphers** [Swe13]. **Circuit** [MAFM21]. **Class** [Ngu08a, Hig03, RS17, TSD⁺12]. **classes** [How98, TSD⁺12, Ngu08c]. **Classification** [AVS20, BHF16, CFSK14, Sta17]. **clear** [Ram15]. **Client** [Lac06]. **climate** [GWM18, Ros18, WHG17]. **CLIMLAB** [Ros18]. **Cloud** [Suc13, Kla11, NEGZG18]. **Clustering** [JWHS16, Müll13]. **CMistark** [CFSK14]. **CMU** [Mac91, Mac92a, Mac92b]. **CNNs** [SH19a]. **co** [Wu13]. **co-designed** [Wu13]. **Cobol** [Ano01b]. **coco** [Sta17]. **Code** [Ano00c, Ano01b, CSZ⁺19, GHN19, Har15, HAB⁺20, Mit00, The09, VMFG17, XMW10, ABGD⁺20, AM10, Ber13, BC09, Buc15, Cas17, Day07b, GH18, Lot15b, MO14, RBV16, Ros08, SML06, WMM18, WZ18]. **Code-Beispiele** [The09]. **Codes** [Anoxxd]. **codice** [Day07a]. **Coding** [MAFM21, Cha15, DV21, ZKB⁺08]. **coeur** [Chu07b, Chu07a]. **cold** [MTPHH18]. **cold-neutron** [MTPHH18]. **Collaboration** [Ano01b]. **collaborative** [VSS17]. **Collation** [Tau16]. **Collected** [Ngu08a]. **collecting** [Mit15, PMBF17]. **collection** [Ngu08d, Ngu08e]. **collections** [BDT13, DTM⁺18, SVY09]. **collective** [Seg07]. **Collector** [Roo97]. **combined** [AM10]. **Combining** [Zie19a, MS15]. **Comfort** [ZGL20]. **Command** [IG19]. **commandi** [Day07a]. **commands** [Day07b]. **Comments** [Roo97, VMFG17]. **commercial** [Tab10]. **Common** [Mac91, Mac92a, Mac92b, RO15b, RAH⁺01]. **Communications** [Ano00c]. **community** [Gar09]. **Comparative** [VPO19, Kak08, Mau02]. **comparing** [GHN19, MD15]. **Comparison** [Pre00, Zho97]. **Competitive** [DV21]. **compilation** [MD15, WMA12]. **Compiler** [Ano01b, CEI⁺12, HS12, IOC⁺12, Mac92b, Ott18, TTS⁺10]. **Compiling** [Fee16, CGK11]. **complete** [Meh15, Sum09, Sum10]. **completely** [Orl97]. **complex** [LR14]. **complexity** [KCS11]. **Compliant** [Ano01b]. **components** [HCPF95]. **Composable** [MLGW18]. **Composing** [RHM⁺17]. **compounds** [DMC⁺15]. **comprehend** [Cox14]. **Comprehensive** [RO15b, RG10, Tel06, You08]. **Compressive** [OPA⁺14]. **Computation** [AMGM20, Coe17, Gut13, Gut16, HA20, LLL⁺20, Orb18, SL21, Wim12, CM20, Guz03]. **Computational** [Aya14, Bäck07, Ble20, HM18, LT03, Lan08, MS07, OL17, VMFG17, Vir16, Bor07, HHK⁺09, Lan06, Lan07, MDRN18, RGS⁺21, TBA⁺17, VAP⁺21]. **Computations** [KJ14, AM10, CLM05, YFD98]. **Computer** [Dow15, IEE97b, MR07, Can14, Dow09, Jos15, JČMG11, MTS⁺18, MH15, Rad06, RMZG06, San13, Swe13]. **Computers** [BT06]. **Computing** [AJYH18, BSSz⁺20, HTA⁺97, HM18, LHB14, LD07, Oli07, PG07, PGH11, Ram18, VB08, BL97b, CSRV13, Cla15, DMC⁺15, DDMS14, DCOC⁺19, FKA⁺17, Her14, Kir04, LW10, Lub14, LS17, Mar18, Meh15, MBK09, Nil07a, Ras18, Ros13, Ros14, SAA18, YPB16]. **concentrations** [DMC⁺15]. **concentré** [Mar07]. **concepts** [BM15, ÜK12]. **concise** [Joh12, Ram15]. **concurrency** [Tab10]. **concurrent** [WO14]. **condensates** [Nil07a]. **Conditional** [Sco17]. **Conference** [ACM92, Ano97c, Eur91, HTA⁺97, IEE97b, USE96, USE00]. **Confidence** [PRH17]. **configuration** [Hos12, LJ19, QZWU19, VC18]. **confusion** [HJHZ18]. **Connolly** [Ish17]. **consistent** [SL21]. **console** [Rem01b]. **constants** [DCOC⁺19]. **constrained** [MWK⁺20]. **constructed** [HCPF95]. **constructing** [CB96]. **content** [GFB⁺14, May21]. **context** [MR09, MBK09]. **continuation** [VY15]. **contract** [Plo97]. **contraction** [SG18].

Control [BBB02, JWHS16, KB07, BST⁺17]. **Controlled** [WX18]. **Controlling** [ZGL20, KSH14]. **conversion** [McF16]. **convert** [GZT⁺18]. **converter** [Sta17]. **converting** [Sta17, VAP⁺21]. **Convex** [Ble20]. **Cookbook** [Mar02, Ant15, BJ14a, Buc15, Cox14, Law15, MMA05, O’C13, Per14b, Ros14, Sar14, Zac15]. **cool** [Jos15]. **COOTS** [USE96]. **Copperhead** [CGK11]. **Copula** [YH21]. **CORBA** [MSR03]. **Core** [Bax01, Chu01, Chu07c, Chu07b, Chu07a]. **Corner** [Ano01a]. **corner.py** [FM16]. **corpus** [Joh08]. **Correction** [Ano02]. **Corrections** [Spe19]. **correctness** [Hen08]. **correlation** [MR18]. **correspondence** [LRPD18, RS17]. **cottoncandy** [NEGZG18]. **Counterexample** [LP19]. **counting** [GdGB⁺18]. **country** [Sta17]. **Coupled** [HM18]. **Coupling** [HM18]. **Course** [WX18, Fla08, GL07a, Guz03, MS15, Mau02, MSW08]. **courses** [RMZG06]. **cp** [Zie19b]. **cp-tools** [Zie19b]. **Cracking** [GAS⁺16]. **crafting** [Vai09, Vai14]. **CRC** [Cla15]. **Create** [Ano01a, Cha01, Kno08, Lay15, RDS07, Ull15]. **create-modify-reuse** [Kno08]. **Creating** [MD17, CR15, KL97, Mur18]. **creativity** [Gal14]. **Creator** [Chu02b]. **cross** [CFW17, HPT⁺16, Ull15]. **cross-machine** [CFW17]. **cross-platform** [HPT⁺16, Ull15]. **Crossing** [Gue18]. **crunching** [Wil05]. **cryptography** [Swe13]. **crystal** [FPSZ21]. **crystalline** [Zie19b]. **crystallography** [TV13]. **CS** [Sha03]. **CS1** [EPM09, GL07a, GL08c, Rad08]. **CS2** [EPM09]. **curriculum** [HRS06]. **customizable** [Bah15]. **Customized** [TGEA09]. **cutting** [RO15a]. **cutting-edge** [RO15a]. **CV** [Len15]. **cycles** [Hug18]. **Cython** [Smi15].

D [Bra13, DB17, Hug18, ML16a, Pet02, PBN⁺09, RKVL14, SDS00, SAA18, ZL20]. **D3GB** [BP17]. **DAEs** [SL21]. **DAG** [IG19]. **dark** [May21]. **Data** [Ano97d, CSZ⁺19, GDP18, Gut16, HC16, KJ15, KHD⁺16, MAFM21, McK12, MT18, ML16a, Mil18, Ngu08a, RZ09, Van16, Wil05, Ada14, BST⁺17, BB17, BM15, CGK11, CFÁA⁺20, CR15, Cue13, DDK19, FKA⁺17, GdGB⁺18, GZT⁺18, HPT⁺16, HFF⁺17, Idr14, Ish17, ICVG14, JAGP14, LRPD18, Lay15, Lot14b, Mad15, MB17, MTPHH18, MMG19, Mil14, Mil15, Mit15, NMGB17, Nel15, Ras18, Ros13, Ros14, RC18, SML06, Smi17, SH19a, Tom15, Var16, Wes15, Orb18, Ish17, Jan10]. **data-intensive** [FKA⁺17]. **Database** [Ano00c, DDK19, SCAK⁺19, YHA⁺16]. **database-backed** [YHA⁺16]. **dataset** [RS17]. **Datasets** [HH17, HJPB17]. **Dateien** [DF00]. **Datenbanken** [The09, Wei06b]. **David** [Jan10]. **day** [Cha15, GL08b, GL09]. **DB** [Ano98b, Kuc98c]. **DB-API** [Ano98b, Kuc98c]. **dc** [CFSK14]. **Debian** [DF00]. **Debugging** [Par11, BL97a]. **December** [IEE97b]. **decision** [RBV16]. **declarative** [FMPS17]. **decomposition** [TEG18, DTR18]. **Deep** [JCY⁺19, RM19]. **deeper** [RO15a]. **defect** [DMC⁺15]. **defects** [BMZ⁺18]. **Deferred** [Spe19]. **defined** [Dah18b]. **defining** [RS17]. **Definitive** [HKM08, Gar09, Lot15b, Sum08]. **demonstration** [SCAK⁺19]. **demoss** [Jos15]. **Dense** [Wim12]. **density** [MWK⁺20]. **Dependent** [KSB12]. **Derivative** [CFMR19]. **Derivative-free** [CFMR19]. **Derivatives** [AMGM20, HM18]. **description** [Dec04]. **Design** [Ano01b, BBB02, Bro06, KL97, KB07, MMT09, MH18, Plo97, VKSB15, BCC⁺18, Dow09, Kas15, Len15, LHM14, MRG18, OA17, Wei15, Gve09]. **designed** [Wu13]. **Designing** [Mit00, CG17, ZKB⁺08]. **desktop** [Bah15, Law15]. **desukutoppu** [SM04]. **detailed** [Sar14]. **Detecting** [GAS⁺16]. **detectors** [ABGD⁺20, LWH⁺10]. **determination** [SL21]. **develop** [DAJ⁺15,

DV21, Gup15, Jos15, Pal14, SW14, Sar14]. **Developer** [Hug01, RAH⁺01, dos01, Ano19]. **developers** [Tos09]. **developing** [Har12, RCRS06, RH15]. **Development** [Ano00c, Ano01b, GdGB⁺18, Hin03, HKM08, KM15, LD07, Bah15, BL97a, CFÁA⁺20, Con95, FBC09, Gar09, Gov15, Mau02, McG07a, Per14a, Pip15, Ree04, You08, Lac06]. **Devices** [Por03, KPK⁺17]. **Devito** [LLL⁺20]. **DGB** [Par11]. **diagnosis** [SL21]. **dialect** [Men09]. **Different** [Bra13, KLM14, KLM15, Ori97, PBN⁺09, Sta17, Wep15]. **Differential** [BT06, GWW09, LT03, LMW12, MSL⁺07]. **differentiation** [SL21]. **Diffpack** [LT03, LM03]. **Diffusive** [BFM18]. **Digital** [Rad08, Hos14, LL08, Rad06]. **Dimensional** [Pat16]. **direct** [ML16b]. **discrete** [DPH16, JEC18, vdH18]. **Discretization** [BH12]. **Disease** [JWHS16]. **dispel4py** [FKA⁺17]. **display** [Wes15]. **Distance** [BSSz⁺20]. **distortion** [SH19b]. **distortion/interaction** [SH19b]. **Distributed** [Ano98c, ABC97, Eur91, KI19, SSH08, SCAK⁺19]. **distributed-memory** [SSH08]. **distributing** [ZKB⁺08]. **Distribution** [Ano00c]. **Distributions** [FV18]. **dit** [JEC18]. **Dive** [Orr05, Pil04, Pil09]. **Django** [EK08, Alc09, Ben08, FBC09, Gup15, HKM08, MBW07]. **DNest4** [BFM18]. **Document** [Ano00c]. **documents** [KL97]. **Does** [She97]. **Doing** [Sah15, Ano15b]. **DOLFIN** [LW10, LWH12]. **domain** [HWW⁺15]. **domain-specific** [HWW⁺15]. **Done** [HKM08, LRvE17]. **données** [Swi09]. **dot** [KPK⁺17]. **Downey** [Gve09]. **Downscaling** [LVH⁺18]. **dozen** [Ros08]. **draw** [RC18]. **Dreaming** [Ros08]. **driven** [Gov15, Kin05, LGS10, Per14a]. **dummies** [MM06, Mue14]. **dust** [Gre18]. **dustmaps** [Gre18]. **Dyer** [Ano00b]. **Dynamic** [DTR18, Ada14, BC09, CEI⁺12, DTM⁺18, FhDAF09, GLS⁺10, LWH⁺10, MRG18, OMGDG14, RF16, SAA18, Wu13, YHA⁺16, YPB16]. **dynamical** [Mar17, Wie18]. **Dynamically** [Kla99, BDT13, IOC⁺12]. **dynamically-typed** [IOC⁺12]. **dynamics** [CMM14, JNN12, JNN13, PW17, SV14]. **dynamism** [BCC⁺18].

e-book [Ano14]. **E-Business** [Ano01b]. **Early** [Sev15a]. **easily** [SW15]. **Easy** [RG00, SJL18, Arb14, Bea96, Cox14, Kla99, NEGZG18, PAB⁺97, Tos09]. **easy-to-comprehend** [Cox14]. **eBook** [Haj08]. **Econometrics** [CS09]. **Ecosystem** [PGH11]. **Eddylicious** [ML18]. **Edge** [Wil97a, RO15a]. **Edit** [BSSz⁺20]. **Editing** [Ano00c]. **Edition** [Ano00b, Orb18]. **Editor** [RAH⁺01, CB96, Dub07, Gar98]. **Education** [Bäc07, MS07, VMFG17, DDMS14]. **effect** [CFSK14]. **Effective** [Sla15, Cri18, Ram15, Wha18]. **effects** [SAA18]. **efficiency** [AM10]. **Efficient** [CSR13, CFÁA⁺20, RG20, SN12, TEG18, Wim12, BM15, McF16, Pal14, SW14, Sie17, SK19, Zac15]. **efficiently** [Lot14a]. **effmass** [Wha18]. **egtplot** [MWS18]. **Eighth** [HTA⁺97]. **Einführung** [EK08, LAG07]. **Einsteiger** [Ric14]. **Einstein** [Nil07a]. **Einstieg** [The09]. **einsum** [SG18]. **einsum-like** [SG18]. **electric** [CFSK14]. **Electrical** [LYX⁺18]. **electro** [Wie18]. **electro-dynamical** [Wie18]. **Electromagnetic** [LFN⁺11]. **Electron** [ABGD⁺20, GDP18]. **electronic** [HTH⁺20]. **electrostatic** [ABS20]. **electrostatics** [CFCB17, CBB14, CCFB16]. **Elektronik** [Ric14]. **Elektronik-Projekte** [Ric14]. **Element** [LMW12, RHM⁺17, AM10, Kir04, LW10, LWH12, ZMS18]. **Elementary** [MS15]. **Elements** [Ano02, Ple02, CBB14, CCFB16]. **embedded** [Cas17, CGK11, LHM14, Par11]. **Embedding** [Nag06, Pul00, van98b, GF18, Rie09, van95a]. **emphasizing** [Gar09]. **Empirical**

[Pre00, SS13, KVSC21, MP19a]. **employer** [Ano20]. **ENA** [BG17]. **Enabling** [GDP18, KBC⁺20, PHH⁺12]. **ENASearch** [BG17]. **encoding** [SGPHD⁺17]. **encrypt** [Lot14b]. **End** [LD07, GHT06]. **ends** [MP19b]. **energy** [GDP18, HHM18, MTPHH18, QZWU19].

Engine [Ano00c, Ang99, SCAK⁺19, Pip15, San15]. **Engineering** [IEE97b, STS⁺18, VMFG17, Kiu10, Kiu13, MP19b, SML06, Yan14]. **Engineers** [MA11, O’C13, Sei09]. **engines** [BKC14]. **English** [VPO19]. **enhanced** [WO14]. **Ensemble** [AVS20]. **ensure** [Buc15]. **ensuring** [RS17]. **Enterprise** [Hig03]. **Entity** [KDC⁺18]. **Entwicklung** [Lac06]. **Enumeration** [SN12]. **ENVI** [BM18]. **ENVI-BIL** [BM18]. **Environment** [Ano01b, BKMY03, BMK03, BKMY04, Pal14, VFMM08]. **Environments** [McG98c]. **eqtools** [CFW17]. **equation** [Bra13]. **Equations** [BT06, GWW09, LT03, LMW12, MSL⁺07, CKK⁺13, Dah18b, WZ18]. **equilibria** [CM20, CFW17]. **Equilibrium** [San13, DMC⁺15]. **Equivalent** [MH18]. **Era** [Sev15b]. **Errata** [Ano01a].

ErsatzPasswords [GAS⁺16]. **ESB** [Suc13]. **Essential** [Cop08, Joh08, Bea00, Bea01, Bea06, Bea09b, Bow15, Day07b, Lot14b]. **Essentials** [PR02, Bah15, BM15, CV15, FL06, Lot15b, Moh15, Wes15]. **Estimate** [CSZ⁺19]. **Estimation** [Nor17, LWV20]. **èÜbungsaufgaben** [The09]. **EurOpen** [Eur91]. **Evaluating** [Dör08]. **Evaluation** [KLM14, KLM15, RO15b, TTS⁺10, BHJ⁺18, CSRV13, IOC⁺12, MD15, VKSB15]. **evaluator** [Huc18]. **even** [LR14]. **événements** [Swi09]. **Event** [Kin05, DPH16, HQF⁺20, vdH18]. **event-chain** [HQF⁺20]. **Event-driven** [Kin05]. **events** [LRvE17]. **everyday** [Wil05]. **evidence** [LFT09]. **Evolution** [Yes15]. **Evolutionary** [MWS18, Wie18]. **exact** [Bri06]. **Examining** [Ang99, CK00].

example [Jos15, RH15]. **exciting** [Gup15]. **Execution** [JCY⁺19, BKC14, Spi18]. **exemple** [MRA06]. **existing** [Lot15b]. **ExoData** [Var16]. **exoplanet** [Var16]. **expanded** [RSPJ21]. **expansions** [Ano18]. **Experience** [CM07, Pop10]. **Experiment** [WX18, BST⁺17]. **experimental** [KSH14]. **Experiments** [MD17, MAFM21, CG17]. **Expert** [Sma12, ZKB⁺08]. **Explain** [VMFG17]. **explaining** [LFT09]. **Explicit** [HPH12]. **Explorative** [HLR15]. **explore** [Mad15, Sah15]. **exploring** [BMK03, Sev13]. **Exposure** [JWHS16]. **express** [Har07]. **expression** [Stu03, Stu07]. **expressions** [LR14, Rom14, SG18, SM04, Stu07]. **extendable** [KVSC21]. **Extending** [Dar12, DY96a, DY96b, DY99, van95a, van98b, CEI⁺12, PHH⁺12]. **extensibility** [Kla99]. **Extensible** [BL97a, CFW17, HCPF95]. **Extension** [Ngu08c, BSG⁺16]. **Extensions** [Ano98c, Bea98, Dal01, DPSD08, Ras18]. **Exterior** [BH12]. **Extracting** [HGMC⁺97]. **Extractive** [VPO19]. **extrinsic** [DMC⁺15]. **Eyringpy** [DCOC⁺19].

F [Ano00b]. **facilitating** [Spi18]. **FAD.js** [BB17]. **Fall** [MH18]. **FAQ** [Ano98e]. **Fast** [Mül13, BB17, Yes15]. **fastcluster** [Mül13]. **Faster** [SN12]. **father** [LS97]. **FDTD** [CKK⁺13]. **features** [LR14, Pip15]. **Featuring** [S JL18]. **FEniCS** [LMW12]. **fgivenx** [Han18]. **FIAT** [Kir04]. **Field** [Pat16, Cri18, Wie18]. **fields** [CFSK14, Mur18]. **Fifth** [CI96]. **file** [VAP⁺21]. **files** [KI19, VAP⁺21, VC18]. **filled** [CBB14]. **Filter** [BHF16]. **Finally** [Aya14]. **Finance** [Vir16, Di 13, Hil15b, Wei15, Wep15, Yan14]. **financial** [Yan14]. **Finite** [Ano02, LMW12, Ple02, RHM⁺17, AM10, Kir04, LW10, LWH12, ZMS18]. **FiPy** [GWW09]. **Firedrake** [RHM⁺17]. **first** [GL08b, GL09, HRS06, MSW08, Rad06,

SL08, Sha03, TSD⁺12]. **first-class** [TSD⁺12]. **fit** [GH18]. **Flask** [Gup15]. **Flexibility** [CFMR19, Gar09, PHH⁺12]. **Flexible** [KB07, BL97b, CSRV13, SAA18]. **Flow** [DB17, TGEA09, YHA⁺16]. **flows** [ML16b]. **Flowtracks** [ML16a]. **Fluent** [Ram15]. **fluid** [CM20]. **fly** [Cas17]. **Follow** [STS⁺18]. **fundamentales** [Chu07b]. **Force** [OPA⁺14]. **foreign** [LWH⁺10]. **forensic** [Hos14, O'C13]. **Forensics** [Hos14, Ano14]. **Forests** [PRH17]. **form** [GS12]. **format** [Fas18]. **formats** [VAP⁺21]. **Formula** [AJJF14]. **Formulation** [Ble20]. **Fortran** [AJJF14, DY99, GH18, GHN19, LC11, MMEH08]. **Fortran-77** [GH18, GHN19]. **Fotos** [DF00]. **Foundation** [Ngu08c]. **Foundations** [RG10, RG14, You08]. **FPGAs** [AJYH18]. **fracture** [ZL20]. **fragments** [OA17]. **Framework** [HA20, JPOB20, MMT09, Nor17, Ram18, Zuk97, BSG⁺16, BK19, CM20, DMC⁺15, FMPS17, FKA⁺17, Gar09, GQCP⁺18, JNN12, JNN13, KVSC21, KSH14, Kuc98b, Law15, LC11, LGS10, LYX⁺18, Mar17, OMGDG14, RGS⁺21, SV14, SAA18, Tay18, ZMS18]. **frameworks** [Dal07, Gup15, MBW07, RCRS06]. **Francisco** [ACM92]. **Franklin** [Jan10]. **Free** [Ano00c, Tro96c, Tro96a, Tro96b, Tro97, CFMR19, HFF⁺17, KBC⁺20, QZWU19]. **French** [Chu07b, Chu07a]. **friendly** [DDK19, GPP⁺21]. **front** [MP19b]. **front-ends** [MP19b]. **Frontier** [Gue18]. **full** [Pip15, PMM⁺13, Wie18]. **full-field** [Wie18]. **Function** [AMPH14, Kor11]. **Functional** [ACM92, Lot15a, MB07, BBH⁺15, Cla15, Han18, Her14, MWK⁺20]. **functions** [CSRV13, Kir04, May17, MR18]. **Fundamental** [Chu07b]. **fundamentals** [Chu08, Lee11]. **Funktionen** [Wei06b]. **Further** [LFT09]. **fvextra** [Poo16]. **Gala** [PW17]. **galactic** [PW17]. **Game** [Gut04, Har07, McG07a, RH15]. **Games** [KM15, MWS18, RH15, Swe09, Ull15]. **Gas** [Mor17, DCOC⁺19]. **gaseous** [ABGD⁺20]. **Gaussian** [SBMD14]. **Ge** [Wei06b]. **Ge-Packt** [Wei06b]. **Gem** [Bri12a, Bri12b, GF18]. **gem5** [RSRT19]. **Gemma** [Cas17]. **General** [AJYH18, LS16, AZLY18, Myr15]. **General-Purpose** [AJYH18, LS16]. **Generate** [Bie97]. **Generating** [May21, VAP⁺21]. **Generation** [Ano01b, HAB⁺20, JPOB20, AM10, Dal07, FPSZ21, ML18, RJAL09]. **Generator** [Bri02, MO14, NCS17, WZ18, vd91, Hag17]. **genesis** [TV13]. **Geneva** [IEE97a]. **Genome** [BP17]. **genomic** [GQCP⁺18]. **gentle** [MS13]. **Geodesy** [Ngu08c]. **geometric** [PBN⁺09]. **geometry** [TEG18]. **Georgia** [USE00]. **Geospatial** [KHD⁺16, Bah15, Law15, Tom15, WZ18, Tom15]. **German** [Lac06]. **gestalten** [DF00]. **Get** [Wil02, CR15, Cox14, SW15]. **Getting** [Hos12, MAFM21, McG07b, Nai14, Nix15, Ric13]. **GIFT** [SGPHD⁺17]. **GIFT-Grab** [SGPHD⁺17]. **GIMP** [DF00, DF00]. **GIMP-** [DF00]. **GIS** [Bah15, Law15, Shi07]. **Glade** [Ano01a, Cha01, Ree04]. **glass** [WMM18]. **Global** [LVH⁺18]. **Globus** [Jac02]. **GlusterFS** [Dar12]. **GMES** [CKK⁺13]. **gmx2qmmm** [GPP⁺21]. **GNU** [DF00]. **Go** [Ano98d]. **Good** [Bea09a, Pre03, HB16]. **goodness** [GH18]. **Google** [Pip15, San15]. **GPU** [CFCB17]. **GPUs** [AJYH18, CBB14, CCFB16, VY15]. **Grab** [SGPHD⁺17]. **Gradual** [TSD⁺12, Sie17, VKSB15, VSS17]. **Grafik** [Lin06b]. **Grafik-Modul** [Lin06b]. **Grafiken** [DF00]. **Grammar** [MP19b]. **grand** [PHH⁺12]. **grand-canonical** [PHH⁺12]. **grants** [Bal12]. **Graph** [BSSz⁺20, Hag17, JCY⁺19, LS16, Boe17, GF18]. **Graph-Mining** [LS16]. **graph-theoretic** [Boe17]. **Graphical** [SJL18, Kar14, MTS⁺18]. **Graphics**

[SDS00, GL08b, GL09, PAB⁺97, SML06]. **grasp** [Lot14a]. **gravity** [MTS⁺18]. **Gray** [Ish17, Sei09]. **Great** [RAH⁺01]. **groff** [RAH⁺01]. **GROMACS** [PHH⁺12, GPP⁺21]. **GromPy** [PHH⁺12]. **große** [Haj08]. **Grundlagen** [DF00]. **GSAS** [TV13]. **GSAS-II** [TV13]. **Gsolve** [MTS⁺18]. **GTK** [DF00]. **GTK-Versionen** [DF00]. **Guest** [Dub07]. **GUI** [Wei06a, Bri02, Con95, Har12, LS98, Sum08, Tal00]. **GUI-Programmierung** [Wei06a]. **Guide** [HAB⁺20, HKM08, Lee17, Mit00, Feh02, Gar09, Ish17, Ish19, ICVG14, KN15, Lot15b, Meh15, Mil14, RO15a, RG10, RH15, Sum08, Swe13, Tel06]. **Guided** [LP19, FhDAF09, Ott18]. **Guido** [Chu02b, Dou98, Kuc98a, Sev15a, Sev15b]. **GUIs** [EK08]. **Gumbie** [Bri02]. **gut** [SKS08]. **Guttag** [Orb18].

H [HA20]. **H-Revolve** [HA20]. **Hack** [Ott18]. **hackers** [O’C13, Sei09, Sei14]. **Hacking** [Swe13]. **Haddad** [Ano00b]. **Halloween** [Cas17]. **Hammond** [Ano00a]. **hand** [Buc15]. **Handbook** [Van16, dos01, Hug01]. **Handbuch** [EK08, EK09]. **Handle** [GZT⁺18, CBB14, Var16, VC18]. **Handook** [RAH⁺01]. **Hands** [Mil18, Bro06, Cha15, Ros14]. **Hands-On** [Mil18, Bro06, Cha15, Ros14]. **HappyJIT** [HS12]. **Hardware** [JPOB20, Dec04, Tab10]. **harness** [Lay15]. **Hash** [AMPH14]. **Haskell** [CM07, Pop10]. **Hawaii** [HK95]. **heat** [SAA18, Zie19b]. **Heatrapy** [SAA18]. **Hector** [ABC97, WHG17]. **Height** [MH18]. **Held** [HTA⁺97]. **Help** [Dör08, HR00, HS13, Law15, Len15]. **Herman** [Cla15]. **Heterogeneous** [HM18]. **HexagDLy** [SH19a]. **hexagonally** [SH19a]. **HHVM** [Ott18]. **Hi** [CSZ⁺19]. **Hi-C** [CSZ⁺19]. **Hierarchical** [HA20, Mü13]. **High** [AMGM20, Dog15, GO14, Hin02, Hin03, Lew09, LD07, ML16b, CFÁA⁺20, GQCP⁺18, HF06, Lan13, Mar18, Ros13, Ros14, SNB⁺19, SSH08]. **High-Level** [Hin02, Hin03]. **High-order** [AMGM20]. **high-performance** [HF06, Mar18, Ros13, Ros14, SNB⁺19, SSH08]. **high-throughput** [GQCP⁺18]. **higher** [MO14]. **highlighter** [BC09]. **Hill** [Lak17]. **Hindi** [VPO19]. **histograms** [GH18, GHN19]. **Historic** [TS14]. **Hits** [Sco17]. **hmis** [MB17]. **Holistic** [VFMM08]. **Holographic** [BDF⁺20]. **HoloPy** [BDF⁺20]. **home** [Ste06]. **homotopy** [VY15]. **Hong** [IEE97b]. **Hosmer** [Ano14]. **hot** [OMGDG14]. **hot-reprogramming** [OMGDG14]. **Houches** [Sta19]. **Hour** [Ngu08b]. **HSImage** [BM18]. **HTML** [Bie97, KL97]. **HTML-supporting** [KL97]. **HTML5** [Ada14]. **HTML5-ready** [Ada14]. **HTMLgen** [Ham98]. **huge** [Cox14]. **Hughes** [Ano00b]. **humanleague** [Smi18]. **HW** [Wu13]. **HW/SW** [Wu13]. **Hybrid** [LP19]. **hydraulic** [ZL20]. **hyogen** [SM04]. **Hyperbolic** [LeV09]. **hyperspectral** [BM18]. **HyPhy** [Spi18]. **HYSPLIT** [War18].

i-PI [CMM14]. **IAST** [SSH16]. **Ibrahim** [Ano00b]. **IDE** [Ano01b, SW14]. **Ideal** [SSH16]. **ideas** [Chu07b, Chu07a]. **identification** [LRPD18]. **II** [Ang00c, TV13]. **Iisignature** [RG20]. **Image** [Ble20, SLGB14, LRPD18, Myr15]. **Images** [ISMA18, OPA⁺14, BM18, TEG18]. **Imaging** [MB07, CG17]. **immediately** [Cha15]. **impact** [LJ19]. **Impedance** [LYX⁺18]. **Imperative** [JCY⁺19]. **Implement** [Mil18, Wei15]. **Implementation** [BBB02, JWHS16, Ngu08a, ABS20, BISC14, DEMM19, KL97, OA17, Sco17, Tau16]. **Implementations** [RO15b]. **Implemented** [BHF16, Bra13, Kar14]. **Implementing** [Bri06, EVV12, Nil07b, Zuk97, RNR17]. **improved** [Sco17]. **improvements**

[DPSD08]. **Improving** [Ago01, CFMR19]. **In-Code** [VMFG17]. **In-database** [SCAK⁺19, DDK19]. **Included** [Dub07]. **includes** [Gar09, SML06]. **independent** [PFH⁺16, She97]. **index** [SL21]. **indispensable** [Buc15]. **Industry** [Joh15, Mat16]. **Infer** [VBB18]. **Inference** [SN12, SBMD14]. **inflationary** [MR18]. **inflow** [ML18]. **informatics** [Sev13]. **information** [Gra18, HGMC⁺97, JEC18, Sev13, YHA⁺16]. **Informix** [Ano00c]. **Inhibiting** [GAS⁺16]. **InitDAE** [SL21]. **Initiation** [Bai08]. **initio** [CMM14]. **inkl** [The09]. **input** [VAP⁺21]. **inputs** [CSR13]. **ins** [DF00, Est01]. **insightful** [Lay15]. **insights** [RO15a]. **inspired** [VBM⁺18]. **Instant** [WMA12]. **Instantiation** [Ano01b]. **Instrumentino** [KSH14]. **instruments** [KSH14]. **insulators** [BMZ⁺18]. **Integral** [RG20, ŠBA⁺15, CMM14, CFCB17]. **integrals** [BHJ⁺18]. **integrate** [CV15]. **integrating** [Bea96, TSC02]. **integration** [Dah18c]. **integrations** [Suc13]. **integrators** [MO14]. **integrity** [RS17]. **Intelligence** [Tan06, Lot14b, Seg07]. **Intelligent** [RM19, ZGL20]. **intensive** [FKA⁺17]. **Inter** [AAC⁺98]. **Inter-Language** [AAC⁺98]. **interacting** [BG17]. **interaction** [BM18, SH19b]. **interactions** [MMEH08]. **Interactive** [BP17, PG07, RAH⁺01, SDS00, DDK19, Len15, PAB⁺97, Ros18, Ros13, Ros14, Ull15, Ano00c]. **interdisciplinary** [SWD15]. **Interface** [ACM97, DGMP09, SJL18, CMM14, DOS17, GPP⁺21, Gre18, HJPB17, HHP⁺16, Jac02, MTS⁺18, Pit18, PHH⁺12, PWF17, Spo12, WZ18, WHG17]. **Interfaces** [Ano01a, Cha01, LWH⁺10, Smi17, Smi18]. **interfacial** [CM20, SHFJ18]. **interferometric** [HJPB17]. **intermetallic** [DMC⁺15]. **International** [Ano97c, CI96, IEE97b, IEE97a]. **Internet** [DF00, Joh97, The09, Wei06b, Ano97b, DAJ⁺15, McG98b, Shi07, WvA96]. **Internet-Programmierung** [Wei06b]. **interpreted** [BKC14]. **Interpreter** [van98b, CM07, van95a]. **interpreters** [HWW⁺15, MD15, ZLBF14]. **interstellar** [Gre18]. **Intervals** [PRH17]. **Interviews** [Kuc98a]. **intricacies** [Lot14a]. **intrinsic** [DMC⁺15]. **Introducing** [BC09, GL07a, HRS06, Lub14]. **Introduction** [Bau96, Dub07, Ful96, Gut13, Gut16, Har12, Ngu08b, SWD15, Tan06, ÜK12, War18, vRD05b, Can14, Joh12, MS13, Poo16, Rad06, Sto13, Sum09, Sum10, vRD03, Orb18]. **Introductory** [KLM14, KLM15, WX18, LFT09, MBK09, RMZG06]. **Intuitive** [Hug14]. **invariant** [LGS10]. **invariant-driven** [LGS10]. **inventing** [Hos14]. **Investigates** [Ano95]. **Investigation** [SS13]. **invited** [Sie17]. **involving** [SAA18]. **IO** [Buc14]. **IOData** [VAP⁺21]. **ion** [BFT20]. **IoT** [ZGL20]. **IPython** [Ber13, PG07, Ros13, Ros14]. **ISBN** [Ano13, Ano14, Ano15a, Ano15b, Cla15, Lee17]. **isotropic** [Mur18]. **Iterated** [RG20]. **Iterated-Integral** [RG20]. **iterative** [BHA18]. **iterators** [ZLBF14]. **Ivezić** [Ish17]. **Izzet** [Ano01a]. **J** [Ano00b, Ano13, Ish17]. **Jacob** [Ish17]. **Jacobian** [NCS17]. **Jacquez** [JWHS16]. **January** [HK95]. **Java** [SML06, SKS08, Ang99, Ano00c, Ano01b, Ano20, HF06, Hig03, Hug97, MSR03, Pre03, Rem01b, Roo97, SM04, Stu07, Tro97, Wil05, Zho97]. **Java-Compliant** [Ano01b]. **JavaScript** [Ric14, Gar09]. **JCanvas** [Ano01b]. **JDBC** [Tan01]. **jedem** [Wei06a]. **JeLLyFysh** [HQF⁺20]. **Jesse** [Lee17]. **Jinn** [LWH⁺10]. **JIT** [ABF13, BBH⁺15, BB17, CEI⁺12, HS12, Ott18, PFH⁺16]. **JIT-based** [BB17, PFH⁺16]. **John** [Jan10, Orb18]. **Jose** [Ano97c]. **JPython** [Ang99]. **JSON**

[BB17]. **Jug** [Coe17]. **Julia** [BCC⁺18, MT18]. **July** [Ano01a, Ass96]. **Jump** [MH18]. **Junction** [SN12]. **June** [ACM92, USE96]. **Jupyter** [Moo21]. **Just** [RF16, Wil97a, LJ19, May21, TTS⁺10, WMA12]. **Just-in-time** [RF16, LJ19, TTS⁺10, WMA12]. **Justin** [Ano15a]. **Jython** [PR02, Bri02, Hig03].

Kapitel [Wei06a]. **KDE** [Ano00c]. **Keeping** [Chu02a]. **Kernel** [Ago01, Ano01a]. **key** [BM15, RS17]. **key-based** [RS17]. **keynote** [McK16]. **Kids** [Lin06b]. **Kinder** [Lee17]. **kinetic** [LWV20]. **kinetics** [NCS17]. **kisses** [Bri12a, Bri12b]. **Kivy** [Ull15]. **Klassen** [Wei06a, Wei06b]. **Know** [MAFM21]. **Knowbot** [HMD⁺96]. **Kong** [IEE97b]. **Korner** [Ago01]. **kurz** [SKS08].

L [Har07]. **lab** [Rad06]. **lab-based** [Rad06]. **labeled** [HH17]. **Lady** [Bri12a, Bri12b]. **lagrangians** [May21, May21]. **Langages** [Bla02]. **Language** [AAC⁺98, Ano95, BKL09, CL06, Ful96, HC16, Het10, Het14, LD07, Lut98a, PFH⁺16, RM19, Rie09, Roo97, Sco09, SS13, Tro96c, van98a, vRD05a, AJJF14, BBH⁺15, Bor07, CLM05, Can14, CEI⁺12, CGK11, Dec04, DY96a, Fee16, HWW⁺15, IOC⁺12, LS97, LWH⁺10, LGS10, MR07, Nel15, Ngu08d, Och09, Ori97, Per14b, SL08, SNB⁺19, She97, Sum09, Sum10, vd91]. **Language-independent** [PFH⁺16]. **Languages** [Ano98d, Dör08, ESM98, Pre00, Pre03, Bea96, BL97b, BDT13, BKC14, Cas20, CEI⁺12, DTM⁺18, FhDAF09, GLS⁺10, HPH12, LS97, Mau02, MRG18, Ngu08e, OMGDG14, RF16, Wu13, YPB16]. **large** [BL97b, BCG05, Var16]. **large-scale** [BL97b]. **LAST** [Sco17]. **latest** [Cas20]. **Lattice** [Mor17]. **Lattice-Gas** [Mor17]. **lattice_mc** [Mor17]. **Laughs** [Wil97a]. **layers** [CBB14]. **Lazily** [Har15]. **LazySorted** [Har15]. **Learn**

[Cha15, Don14, Ros13, CV15, HS13, Idr14, Mad15, Nai14, Swe09, ZKB⁺08]. **Learning** [Ada14, AVS20, Arb14, BW14, Duf15, Gun14, Hia15, Hil15a, Hil20, Hug99, JCY⁺19, Lay15, Len15, LA99, LA04, Lut08, Lut09a, Lut09b, Lut13, MH15, RM19, Ros13, SW15, Bow15, CR15, Har07, Ish17, ICVG14, Kar14, RS17, RO15a, Ras18, SCAK⁺19, Lak17]. **LEED** [GDP18]. **LEEM** [GDP18]. **LegacyJ** [Ano01b]. **LEGOs** [BMK03]. **Leitfaden** [Haj08]. **lets** [Cas17]. **Letter** [Gar98]. **Letters** [RAH⁺01]. **Level** [Hin02, Hin03, Myr15]. **leverage** [LR14, SW14]. **Libraries** [MLGW18, Bah15, Hig03, She97, Wes15]. **Library** [AMGM20, BTR14, CHG⁺16, CR12, HC16, HAGH18, ISMA18, LS16, Lun01, Moo21, RG20, AM19, Ada14, BG17, BM18, Cri18, FPSZ21, Gre16, HJHZ18, HTH⁺20, HU17, HB16, JAGP14, KL97, LRPD18, LRvE17, LWH12, May17, MMP11, MK16, PBN⁺09, RJAL09, RC18, SH17, Ull15, VAP⁺21, Yes15, ZMS18, Zie19b, van95b]. **life** [Yan14]. **lightweight** [Bah15, Gar09, RGS⁺21]. **Like** [Dow15, Dow09, SG18]. **Line** [IG19, Har07, Har07]. **Linear** [SBMD14, BCG05, CFSK14, Dah18b]. **Lines** [HAB⁺20]. **linguistics** [Joh08]. **Linking** [vd91]. **Linux** [Ano00b, DF00, Ric14, USE00, Ago01, Ano00b, Ano00c, Bla02, Bla04, GJ08, Lac06, MS⁺00, Par11, RAH⁺01, TSC02]. **Linux-basierte** [Ric14]. **Lion** [BFT20]. **Lisp** [ACM92, Mac91, Mac92a, Mac92b]. **List** [Har15]. **lists** [Ano20]. **little** [VSS17]. **LJ** [Kuc98a, RAH⁺01]. **LLNL** [Ano98c]. **LLNL-Distributed** [Ano98c]. **LLVM** [RSRT19]. **LLVM-Based** [RSRT19]. **Log** [RG20]. **logic** [Bro06]. **Loop** [ABF13, LS17]. **Loop-aware** [ABF13]. **Loosa** [RAH⁺01]. **Low** [GDP18]. **Low-energy** [GDP18]. **LSPR** [CFCB17]. **Lua** [Gut04]. **Lunch** [Ang00a]. **Lutz** [Ano97a].

M [Jan10, Lee17, Wep15]. **Mac** [SML06, Wal07]. **Machine** [Bow15, CFW17, CR15, Ish17, ICVG14, Kar14, MRG18, RS17, RO15a, Ras18, SCAK⁺19]. **machines** [MRG17, PFH⁺16]. **Made** [RG00, AW06, Cox14]. **MAGICC** [GWM18]. **Magnetic** [MB07, CFW17]. **Magni** [OPA⁺14]. **maintaining** [RS17]. **majors** [Guz03, HHK⁺09]. **make** [Mad15]. **makes** [Kla99]. **Making** [Dal01, DDK19, Swe09]. **manage** [RC18]. **Management** [Ano97d, Ano00c, BBB02, IG19, KDC⁺18, ML16a, AW06, Hos12, JAGP14]. **Managing** [Por03, PMBF17]. **Manifolds** [HAGH18]. **manipulate** [GZT⁺18]. **Manipulation** [Mil18]. **ManPy** [DPH16]. **Manual** [DF00, van98c, vRD05a, Mac91, Mac92a, van95c, HYG16]. **manufacturing** [DPH16]. **many** [Gra18]. **many-body** [Gra18]. **Maple** [GS12]. **mapped** [Fas18]. **mapping** [HK15, Tom15]. **maps** [Gre18]. **March** [HTA⁺97]. **Marginalization** [SN12]. **Mark** [Ano97a, Ano00a]. **Marketing** [Mil15]. **Mass** [SN12, Wha18]. **massively** [BSG⁺16]. **master** [Ada14, Meh15, Pip15, Zac15]. **Mastering** [Dog15, Het14, Kas15, LR14, Lot14a, Mad15, Meh15, Rom14, Wei15, BJ14a, Het10, Tid07]. **Matching** [KDC⁺18, KB18]. **MatchingTools** [Cri18]. **MatchPy** [KB18]. **Math** [Ano15b, Sah15]. **Mathematica** [Sta19]. **Mathematical** [SdSS16, Wei15]. **Mathematics** [LL08]. **Matplotlib** [RC18, Tos09, Nel15]. **Matrices** [FSZD20, Wim12, FM16]. **matrix** [HJHZ18, SH17]. **matter** [May21]. **Maxwell** [CKK⁺13]. **May** [Ano97d, Ano01a, Eur91]. **Maya** [Gal14]. **Maybe** [How06]. **MCycle** [Hug18]. **measurements** [MTS⁺18]. **Measuring** [ÅW16, KCS11]. **Mechanics** [Ble20, MS15, GPP⁺21]. **mechanics/Gromacs** [GPP⁺21]. **media** [Guz03]. **Mediator** [Far02]. **Mediator/Python** [Far02]. **Medical** [ISMA18, SML06]. **medium** [LRvE17]. **medium-sized** [LRvE17]. **Meep** [LFN⁺11]. **memory** [Fas18, SSH08, Tab10]. **memory-mapped** [Fas18]. **mental** [SG07]. **mesh** [GS12]. **message** [BL97a]. **Meta** [Tro96b, MD15]. **meta-compilation** [MD15]. **metagraphs** [RNR17]. **Method** [LMW12, RHM⁺17, CKK⁺13, DEMM19]. **Methodologists** [Dör08]. **Methods** [Gez20, LT03, MS07, Nor17, AM10, GF18, Kiu10, Kiu13, You08]. **metrics** [Gre16]. **MGtoolkit** [RNR17]. **microcontrollers** [Ano19]. **microframework** [VBM⁺18]. **Microscopy** [BDF⁺20, OPA⁺14]. **microsynthesis** [Smi18]. **migration** [Fee16]. **migrations** [Lot15b]. **Milestone** [SV14]. **minimal** [May21]. **minimal-lagrangians** [May21]. **Mining** [LS16, sR11, Rus14, Ish17, ICVG14, Lay15]. **Minneapolis** [HTA⁺97]. **Minolta** [Ano00c]. **Misconception** [RAH⁺01]. **Mitch** [Ano01a]. **Mitchell** [Mit00]. **Mix** [Est01]. **Mix-ins** [Est01]. **MLxtend** [Ras18]. **mmappickle** [Fas18]. **MN** [HTA⁺97]. **MO** [Cas17]. **Mobile** [ST⁺07, HMD⁺96, Len15]. **Mode** [CR12, DTR18]. **Model** [BTR14, CFMR19, War18, ABS20, GWM18, Hen08, May21, RBV16, WHG17]. **Model-based** [CFMR19]. **Modelica** [Ern99]. **Modeling** [Ano01b, AJH⁺12, DDMS14, ISMA18, JPOB20, KB07, Mil14, RSRT19, Tie16, YH21, BK19, BMZ⁺18, HHM18, HCPF95, KN15, Mar17, Mil15, Ros18, WMM18, Lee17, Ish19]. **Modelling** [PHF10, PBN⁺09, Tay18]. **Models** [HM18, SBMD14, DPH16, Kar14, KVSC21, Lay15, SG07]. **Modern** [Sev15b, AJJF14, Lub14, MS15, Mit15, TV13]. **moderne** [LAG07]. **modernize** [Lot15b]. **modify** [Kno08]. **modred** [BTR14]. **Modul** [Lin06b]. **Modular** [CFW17, HYG16, BST⁺17, HPT⁺16, KSH14]. **Modularisierung** [EK08]. **Module**

[Ham98, KB07, MD17, Mor17, SBMD14, TGEA09, Wei06b, Fas18, PHH⁺12, Tom15]. **modules** [Idr14]. **molecular** [CMM14, DFC18, FC17, HCPF95, SHFJ18, Yes15]. **Monograph** [Anoxxc]. **Monte** [ABGD⁺20, DEMM19, HQF⁺20, Mor17, Nil07b, PHH⁺12]. **MontePython** [Nil07b]. **Monterey** [Ass96]. **monty** [PMM⁺13]. **Moodle** [Rad08]. **most** [Cox14, LR14]. **MPI** [DPS05, DPSD08]. **MPI-2** [DPSD08]. **mpnum** [SH17]. **Multi** [EVV12, GMS17, MLGW18, Och09, Pul00, BHJ⁺18, Fee16, LRPD18, MTPHH18, QZWU19, SGPHD⁺17]. **Multi-Agent** [EVV12]. **multi-channel** [SGPHD⁺17]. **multi-configuration** [QZWU19]. **multi-image** [LRPD18]. **Multi-language** [Och09, Fee16]. **Multi-Processing** [MLGW18]. **Multi-Robot** [GMS17]. **multi-scale** [BHJ⁺18]. **Multi-Threaded** [Pul00]. **Multi-Threading** [MLGW18]. **Multiclass** [HJHZ18]. **Multicomplex** [AMGM20]. **Multidisciplinary** [MMT09, HHK⁺09]. **Multidual** [AMGM20]. **MultiFLEXx** [MTPHH18]. **multiflexxlib** [MTPHH18]. **multigrid** [BISC14]. **multimedia** [GFB⁺14]. **multiphysics** [BSG⁺16]. **Multiple** [Kor11, MP19b]. **Multiple-Precision** [Kor11]. **Multiscale** [LWV20]. **multithreading** [Swi09]. **multivariate** [CSRV13]. **MultiZ** [AMGM20]. **music** [MBK09]. **Musterlösungen** [Wei06a]. **MWA** [HYG16]. **MyHDL** [Dec04]. **Myro** [Men09]. **MySQL** [Bis01, HF06, TSC02]. **Mython** [Rie09].

Names [RAH⁺01, Sta17]. **NanoNET** [KVSC21]. **Nanophotonics** [BVB⁺07]. **nanostructures** [Wie18]. **Nansat** [KHD⁺16]. **Natter** [SLGB14]. **Natural** [BKL09, RM19, SLGB14, Per14b]. **nature** [VBM⁺18]. **nature-inspired** [VBM⁺18]. **Ncpol2sdpa** [Wit15]. **need** [Cha15].

Nelson [Lee17]. **Neo4j** [Gup15]. **Nest** [Dub05]. **Nested** [BFM18]. **Net** [Bis01]. **Network** [Ago01, Ano00c, BBB02, LS16, Ngu08a, XL18, AW06, FL06, GL07a, Gre16, HK15, RG10, RG14, Sar14, SW15, WZ18]. **Networks** [KSB12, VBB18, Boe17]. **Netzwerkkommunikation** [EK08]. **neurophysiology** [NMGB17]. **Neuropsydia.py** [MD17]. **NeuTomPy** [MMG19]. **neutron** [MTPHH18]. **NeuVis** [Ano01b]. **New-Style-Klassen** [Wei06b]. **News** [HPT⁺16, LRvE17, PHH⁺12, She15, Yes15]. **Next** [Dal07]. **Next-generation** [Dal07]. **NiaPy** [VBM⁺18]. **NIST** [Ano95]. **NJ** [Lee17]. **NLKT** [Per14b]. **NLTK** [Per14b]. **No** [Ano15a, Ano15b, Wat95]. **NOAA** [War18]. **noisy** [May17]. **Noisyopt** [May17]. **nomisweb** [Smi17]. **non** [Dah18b, Guz03]. **non-linear** [Dah18b]. **non-majors** [Guz03]. **Noncommuting** [Wit15]. **Nonlinear** [MS07, MMP11]. **nonsense** [Huc18]. **Norway** [Eur91]. **Nostril** [Huc18]. **Notation** [TS14]. **Notions** [Chu07b, Chu07a]. **Novice** [Sma12, Het05, Het08, McG07a]. **noWorkflow** [PMBF17]. **nuclear** [WZ18]. **Numbers** [AMGM20]. **Numeric** [MLGW18]. **Numerical** [BT06, DHH96, Gez20, HM18, Joh15, Kiu10, Kiu13, LT03, Ram18, Wim12, BHJ⁺18, Bra13, Dah18c, MS15, ML16b, Ros13, Ros14, Mat16]. **numerically** [Dah18b]. **NumPy** [AJJF14, DOS17, Mil18, RC18, Fas18]. **NURBS** [BK19]. **NURBS-Python** [BK19]. **nutshell** [Mar03, Mar06].

Object [CI96, DY96a, ESM98, GL08a, HAGH18, Lut98a, Lut01, MMT09, USE96, AM19, BK19, GL07b, GL08c, HPH12, HHP⁺16, Kak08, KCS11, Lot14a, Phi10, Phi15, SML06, She97, YFD98]. **Object-Orientation** [CI96]. **Object-Oriented** [ESM98, HAGH18, Lut01,

MMT09, USE96, DY96a, GL08a, AM19, BK19, GL07b, GL08c, HPH12, Kak08, Lot14a, Phi15, SML06, YFD98]. **Objects** [ABC97, She97, Kak08, Phi15]. **Objekte** [Wei06a]. **objektorientierte** [Wei06b, Wei06a, Wei09]. **objektorientierter** [The09]. **Objektorientierung** [EK08]. **objet** [Swi09]. **observations** [Pop10]. **O'Connor** [Ano13]. **October** [ACM97, Ano97c, CI96, USE00]. **ODE** [Dah18c]. **Offended** [RAH+01]. **Offline** [GAS+16]. **Ogg** [RAH+01]. **One** [GS12, Ngu08b, Pat16, Cha15, Ros08]. **One-Dimensional** [Pat16]. **One-Hour** [Ngu08b]. **One-peak** [GS12]. **online** [JAGP14]. **only** [Cha15, KI19]. **OO** [LAG07]. **OO-Programmierung** [LAG07]. **OOP** [She97]. **Open** [Eur91, HYG16, JPOB20, JČMG11, Ray98, Bah15, BK19, CFW17, CG17, DPH16, HU17, Idr14, JNN12, JNN13, KPK+17, KSH14, MDRN18, SV14, TV13, Ull15, VSS17, You08, LFN+11, Len15]. **Open-CV** [Len15]. **Open-Source** [HYG16, JPOB20, BK19, CFW17, CG17, DPH16, HU17, JNN12, KPK+17, KSH14, MDRN18, TV13]. **open-world** [VSS17]. **OpenCL** [Di 14]. **OpenCV** [Jos15, MH15]. **OpenMG** [BISC14]. **OpenSees** [ZMS18]. **OpenSeesPy** [ZMS18]. **OpenStreetMap** [Boe17]. **Operating** [CI96, Mos20]. **opt_einsum** [SG18]. **Optimization** [CFMR19, HAGH18, JG17, MMT09, Mir18, SdSS16, Wit15, GLS+10, Rie09, Wie18]. **optimizations** [ABF13, BB17]. **Optimizing** [FSZD20, RKVL14, HWW+15, LJ19, MD15, May17, SG18, ZLBF14]. **options** [LS98]. **OPUS** [MSR03]. **Oracle** [Ano00c]. **ORBKIT** [HPT+16]. **order** [AMGM20, Lot14a, MO14, SG18]. **Ordering** [Ang00a]. **O'Reilly** [Ano97a, Ano00a]. **Orientated** [KHD+16]. **Orientation** [CI96]. **Oriented** [ESM98, HAGH18, Lut98a, Lut01, MMT09, USE96, AM19, BK19, DY96a, GL07b, GL08a, GL08c, HPH12, HHP+16, Kak08, KCS11, Lot14a, Phi10, Phi15, Ros18, SML06, YFD98]. **OS/2** [DF00]. **OSMnx** [Boe17]. **Other** [Wil00, Hos12]. **Our** [Cas20]. **Outcomes** [WX18]. **overview** [LS98]. **own** [Nai14, RH15, SML06]. **P2NMAP** [HK15]. **PaCAL** [KJ14]. **Pacific** [HK95, IEE97b]. **pack** [Rad08]. **Package** [AVS20, DB17, IG19, KHD+16, KJ14, LVH+18, ML16a, MWS18, OPA+14, SdSS16, XMW10, XL18, YH21, BFT20, Boe17, BHA18, CFSK14, CG17, CKK+13, Dah18a, DFC18, FC17, GdGB+18, GL08b, GL09, GF18, Gra18, Han18, HHM18, Hug18, JEC18, KPK+17, MWK+20, MTPHH18, MMG19, ML18, MR18, Mur18, NMGB17, NEGZG18, PW17, QZWU19, RG18, RNR17, SHFJ18, SSH16, Smi18, SG18, Spi18, Sta17, TV13, Var16, VC18, Wha18, WO14]. **Packages** [Mil18, Lub14]. **Packt** [Wei06b]. **Pages** [Ang00b, Ang00c, Bie97, Ano97a, Ano00a, Mit00]. **palette** [TEG18]. **palette-based** [TEG18]. **Palm** [Ano00c, Ano00c]. **Pandas** [Mil18, Nel15]. **paper** [Lee17, MDRN18]. **Papers** [Anoxxa, Anoxxb, Anoxxc, Anoxxd, ACM92]. **paradigm** [Kir04]. **Parallel** [BT06, Coe17, Di 14, DGMP09, HTA+97, Hin03, Hin07, IEE97a, MRG17, Pal14, Sah12, TBA+17, BSG+16, CLM05, CGK11, GFB+14, HLS006, MRG18, PWF17, Yes15, Zac15, MMP11]. **Parallelization** [DTM+18, MAC14]. **Parallelized** [BTR14]. **Parallelizing** [CL06]. **parameter** [LWV20]. **parameters** [LJ19, RKVL14]. **Parquet** [KI19]. **parsing** [Spi18]. **Part** [Ang00b, Bri12a, Bri12b, Ang00c]. **Partial** [BT06, GWW09, LT03, MSL+07, MD15]. **Partially** [Har15]. **Particle** [Hug14, ML16a, Mir18, Nor17, May21, RKVL14]. **Particle-Based** [Nor17]. **particle-in-cell** [RKVL14]. **Passages** [Gro20]. **passing**

[BL97a]. **Passive** [HK15]. **Password** [GAS⁺16]. **PASTA** [KBLJ18]. **path** [AZLY18, CMM14]. **path-based** [AZLY18]. **Pattern** [KB18]. **patterns** [Chr02, Kas15]. **PC** [Wal07, Ano00c]. **PDE** [CL06]. **PDF** [DF00]. **PDF-Dateien** [DF00]. **peak** [GS12]. **Penetration** [Duf15, Buc15, Moh15, O’C13]. **pentesters** [Sei14]. **Penultimate** [RAH⁺01]. **perceptions** [SL08]. **Perfectly** [Sch17]. **Performance** [DPSD08, Dog15, FSZD20, LLL⁺20, LD07, SdSS16, TS14, BCC⁺18, CLM05, CFÁA⁺20, GO14, HF06, IOC⁺12, Lan13, Lew09, LJ19, Mar18, ML16b, Ros13, Ros14, SNB⁺19, SSH08]. **Perl** [DF00, SKS08, Bla02, Bla04, HAE00, HF06, Kak08, LS97, MSR03, Ngu08d, Ngu08e, Pre03, Roo97, Sit02, SM04, Stu07]. **Perprof** [SdSS16]. **Perprof-py** [SdSS16]. **Persistence** [Ano01b]. **Perspective** [Eur91, KDC⁺18, Wep15]. **Perusing** [Wil97b]. **Pfaffian** [Wim12]. **phantoms** [CG17]. **phase** [CM20, DCOC⁺19]. **Phasepy** [CM20]. **phenology** [Tay18]. **Phil** [Ano00b]. **Philip** [Lee17]. **PHP** [SKS08, HF06, HS12, Ott18, SM04, Stu07, TTS⁺10]. **phrasebook** [Day07b]. **Phylogemetric** [Gre16]. **phylogenetic** [Gre16]. **phyphy** [Spi18]. **Physical** [Lee17, Tie16, Ish19, KN15, RKVL14]. **Physics** [Aya14, Bäck07, Gez20, MAFM21, Bor07, Di 13, RGS⁺21, RSPJ21, San13, Wep15]. **PI** [CMM14, BW14, Cox14, Don14, MAFM21, Nix15]. **Piano** [TS14]. **pickle** [Fas18]. **Pierro** [Wep15]. **Pipeline** [MSR03]. **pitfalls** [CEI⁺12]. **plan** [Lot15b]. **planar** [ZL20]. **planetary** [LRPD18]. **plant** [PBN⁺09, Tay18]. **PlantGL** [PBN⁺09]. **Platform** [Ano00c, BBB02, Lac06, HPT⁺16, MDRN18, ST⁺07, She97, Ull15, Lac06]. **platform-independent** [She97]. **Platforms** [HA20, GFB⁺14, Par11]. **Playing** [Swe09]. **PLEASE** [GDP18]. **plots** [Tos09]. **Plotting** [OZW18, Han18, HFF⁺17]. **Plug** [DF00]. **Plug-ins** [DF00]. **PLW** [LD07]. **pMuTT** [LWV20]. **Pocket** [Lut98b, Lut02, Lut05, Lut14, Stu03, Stu07]. **POGIL** [HS13]. **point** [BMZ⁺18, DMC⁺15]. **Poisson** [Bra13]. **Political** [Dör08]. **pollution** [RC18]. **Polyhedral** [LP19]. **Polymorphie** [Wei06a]. **polymorphism** [ÅW16]. **Polynomial** [VY15, Wit15]. **pools** [PWFM17]. **popular** [Idr14]. **Portable** [Di 14, Kor11, Bah15]. **ports** [Buc14]. **posets** [GS12]. **positive** [GS12]. **Post** [SJL18]. **post-processing** [HTH⁺20]. **Post-treatment** [SJL18]. **Posterior** [FV18, Han18]. **postprocessing** [HPT⁺16]. **potential** [ABS20, Cox14, Hia15]. **Power** [BHS18, Day14, Gal14, Hug18, Lay15, MH15, Mur18, Phi15, SW14, Tel06]. **powerbox** [Mur18]. **powered** [RDS07]. **powerful** [Idr14, Law15, Lot14a, Zac15]. **pp** [Lee17]. **Practical** [Ben08, Cue13, Gal14, Het02, Joh15, Mat16, CR15, DAJ⁺15, Fla08, Ish17, ICVG14, Per14b, Swe14]. **Practice** [TS14]. **practices** [ZKB⁺08]. **practitioner** [BM15]. **pragmatic** [RH15]. **Pragmatics** [Sco09]. **praktisch** [Wei06a]. **pratical** [Sar14]. **Praxis** [EK08]. **Praxisbuch** [Haj08]. **pre** [HTH⁺20]. **pre/post** [HTH⁺20]. **pre/post-processing** [HTH⁺20]. **Precise** [YHA⁺16]. **Precision** [Kor11]. **predicting** [AZLY18, Zie19b]. **predictive** [Bow15, Lay15, Mil14, Mil15, RO15a]. **preferences** [DMC⁺15]. **PREMER** [VBB18]. **preparation** [EPM09]. **presentation** [Kak08]. **presented** [ACM92]. **Preserving** [IG19]. **Press** [Ano15a, Ano15b, Cla15, Gve09]. **Presses** [Ray98]. **Price** [Lee17]. **Prime** [Ano98d]. **primer** [Lan09, Lan11, Lan12]. **Princeton** [Lee17]. **principles** [LHB14]. **print** [Ano14]. **Pro** [Alc09, BA14, Sil14]. **probabalistic** [Kar14]. **Probabilistic** [LP19, RBV16]. **Probabilities** [Pat16]. **Problem** [Mis19]. **Problems** [AVS20, Ble20, DB17, LeV09,

ŠBA⁺15, Wit15, Kar14, Wil05]. **procedure** [HF06]. **Proceedings** [ACM92, ACM97, Ano97c, Ano97d, CI96, ESM98, Eur91, HTA⁺97, IEE97b, IEE97a, USE96, USE00]. **process** [Ros18, Wes15]. **process-oriented** [Ros18]. **processes** [SAA18]. **Processing** [APS10, BKL09, Ble20, HTA⁺97, Hug14, IEE97a, KHD⁺16, MLGW18, Mil18, RM19, SH19a, BST⁺17, HTH⁺20, How98, McG00, Mer03, MMG19, Myr15, Per14b, PWF17, SGPHD⁺17]. **processor** [Tab10]. **product** [SH17]. **Productivity** [Ano01b, Moo21]. **Products** [Ano00c, Ano01b]. **Professional** [MS⁺00, MBW07, Het05, Het08, McG07a]. **professionellen** [DF00]. **Profi** [Haj08]. **Profi-Leitfaden** [Haj08]. **Profile** [Ano19, FhDAF09, SdSS16, Ott18]. **Profile-guided** [FhDAF09, Ott18]. **Program** [DDLW02, AZLY18, DEMM19, DCOC⁺19, HS13, Len15, MTS⁺18, Swe09]. **Programmable** [OA17]. **Programmanfänger** [The09]. **Programmation** [Zia06, Bai08, Swi09]. **Programmbeispiele** [Lin06b]. **Programmer** [Ang99, Ano00b, McG98c, Wil97b, Wil00, Wil01, Wil02, Swi09]. **Programmering** [Lin06a]. **Programmers** [HR00, Ros08, Sma12, Cox14, Meh15]. **Programmierer** [Haj08]. **Programmierung** [EK08, LAG07, The09, Wei06a, Wei06b, Wei09]. **Programming** [ACM92, Ano95, Ano97b, Ano00b, CL06, DY96b, DY99, Ful96, Gar98, Gra00, Gut13, Gut16, HR00, HC16, Hin02, HMD⁺96, Joh97, KLM14, KLM15, LT03, Lut96, Lut01, Lut06, McG98b, McK16, Orb18, Pet02, Pre00, RG00, Roo98, San15, SDS00, Sco09, Seg07, SS13, Sum09, Sum10, Tro96a, WX18, Wit15, Ano00a, BKMY03, BKMY04, Bro06, CLM05, Can14, Cas20, Chr02, Chu01, Chu07c, Daw03, Daw06, Daw10, DAJ⁺15, Don14, DV21, FL06, FMPS17, Fla08, Gal14, GS12, GL07a, GL07b, GL08a, Gut04, Har07, HF06, Har12, Hia15, Hig03, Hil15a, Hil20, HLSØ06, HPH12, Joh12, Kin05, Lak17, Lam15, Lan13, Lan09, Lan11, Lan12, Law15, Lee11, LHB14, LFT09, LL08, Lot14a, Lot15a, MS⁺00, Mau02, McG98a, MRG18, MR07, MR09, MBW07, MSW08]. **programming** [Mue14, Nel15, Och09, Pal14, Phi10, Phi15, Ram15, RG10, RG14, RH15, Ros13, Sah12, Sah15, SL08, SV14, Sar14, SW15, SWD15, Sei09, Sei14, SB15, Sum08, Swe13, Swe14, TSC02, ÜK12, WvA96, Wep15, WO14, Zac15, ZKB⁺08, Bax01, Ano97a]. **Programs** [Di 14, JCY⁺19, ÅW16, Lan13, Nag06]. **progress** [Sie17]. **project** [Cha15, Pop10, You08]. **projects** [Arb14, Bal12, Ben08, SW14]. **Projekte** [Ric14]. **properties** [AZLY18, CM20]. **Protein** [SN12, MMEH08]. **proteins** [MMEH08]. **prototype** [Len15]. **prototypes** [DAJ⁺15, YPB16]. **Prototyping** [BKC14, KBC⁺20, Spe19, UVa95, RCRS06, ST⁺07, vd91]. **provenance** [PMBF17]. **provided** [Pip15]. **Providing** [Ras18]. **ProxySource** [Ano01b]. **psrppy** [Pit18]. **Pteros** [Yes15]. **publication** [JAGP14, Tos09]. **publications** [RRRGVD19]. **Publishable** [S JL18]. **published** [Gve09]. **Pudipeddi** [Myr15]. **pulsar** [Pit18]. **Purpose** [AJYH18, LS16, TV13]. **put** [Cas20]. **puts** [Ang99]. **pvlib** [HHM18]. **py** [BFT20, HC16, SdSS16]. **Py-ART** [HC16]. **PY-SUMMA** [AVS20]. **Py2neo** [Gup15]. **PyACTS** [DGMP09]. **picalphad** [OL17]. **PyCDFT** [MWK⁺20]. **PyCDT** [BMZ⁺18]. **Pycket** [BBH⁺15]. **PyCM** [HJHZ18]. **PyCOMPSs** [TBA⁺17]. **PyDEC** [BH12]. **PyDEF** [S JL18]. **PyDII** [DMC⁺15]. **PyDMD** [DTR18]. **pyEIT** [LYX⁺18]. **PyF95** [LC11]. **PyFrac** [ZL20]. **pygal** [Ada14]. **Pygame** [KM15, McG07a]. **PyGBe** [CFCB17, CCFB16]. **PyGBe-LSPR** [CFCB17]. **pyGDM** [Wie18]. **pyGFC** [Ngu08c]. **pyGlobus** [Jac02]. **pyGPGO** [JG17]. **PyGran**

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Python
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Python [PRH17, PMM⁺13, PHH⁺12, Pop10, PBN⁺09, Pre03, PW17, PWF17, Pul00, QZWU19, RS17, Rad06, Rad08, RKVL14, Ram18, Ram15, RG18, RDS07, RG00, RNR17, RMZG06, RO15a, Ras18, RO15b, Ree04, RZ09, Rem01a, Rem01b, RG10, RG14, Ric15, RGS⁺21, RSPJ21, RH15, Rom14, Roo97, Ros18, Ros13, Ros14, RC18, SW14, Sah12, Sah15, SSH08, Sal14, San13, SL08, San15, SV14, SW15, ST⁺07, Sch17, SL21, Sco17, SWD15, SHFJ18, Sei09, Sei14, Sev13, Sev15a, Sev15b, SGPHD⁺17, Sha03, She15, She97, Shi07, Sil14, SAA18, SSH16, SLGB14, SdSS16, Sit02, Sla15, Sma12, SG18, SK19, Spi18, Spo12, Sta17, Sta19, Ste06, SB15, SBMD14, SM04, Stu07, Suc13, SH17, Sum08, Sum09, Sum10, Suz97, Swe09, Swe13, Tab10, Tan01, Tan06].

Python [Tau16, TBA⁺17, Tel06, TSC02, Tie16, TGEA09, Tom15, Tos09, Tro96c, Tro96a, Tro96b, Tro97, TBJ18, ÜK12, Ull15, Vai09, Vai14, VB08, Van97b, Van16, Var16, VAP⁺21, VC18, Vir16, VKSB15, VBM⁺18, WX18, Wal07, Wal97, War18, Wat95, WvA96, Wei06b, Wei15, Wes15, WMA12, WMM18, WO14, Wil97a, WHG17, Wil00, Wil05, XMW10, XL18, YKKD19, Yan14, Yes15, You08, YH21, Zac15, Zho97, ZMS18, Zia06, ZKB⁺08, Zie19a, Zie19b, Zuk97, dos01, vd91, van95a, van95b, van95c, van95d, van97a, van98b, van98c, van98a, vRDK99, vRD03, vRD05a, vRD05b, vdH18, vF97, Bri06, HHM18, Ano97a, Ano13, Ano15a, Ano15b, Joh97, Lak17, Myr15, Orr05, Roo98, Ano00a, Ano14, Cla15, Gve09].

Python-Based [BBB02, BKMY04, Aya14, Ram18, ABGD⁺20, BKMY03, Dec04, GPP⁺21, Gup15, JAGP14, Lac06, PBN⁺09].

Python-Buch [vF97]. **Python/C** [van98c].

Pythonic [Dal01]. **Pythons** [Dub05].

PythonTeX [MS13, Poo16]. **Pythran** [Gue18]. **Pytim** [SHFJ18]. **PyTOPS** [YKKD19]. **PyTorch** [Mis19, RM19, SH19a].

PyTransport [MR18]. **PyTrinos** [SSH08, Spo12]. **pyuca** [Tau16]. **PyUnfold** [BHA18]. **pyuvdata** [HJPB17]. **pyvine** [YH21]. **PyXtal** [FPSZ21].

Q&A [Chu02b]. **QCOBJ** [VC18]. **QEDv2** [SV14]. **QGIS** [Law15]. **qha** [QZWU19].

QmeQ [KPK⁺17]. **Qt** [Sum08]. **quadratic** [GS12]. **Quail** [HFF⁺17]. **quality** [Tos09].

Quantitative [KLM14, KLM15, Yan14]. **quantity** [VC18]. **quantity-aware** [VC18].

QuantLib [Vir16]. **QuantLib-Python** [Vir16]. **Quantum** [Nil07b, GPP⁺21, Gra18, HPT⁺16, JNN12, JNN13, KPK⁺17, SV14].

quasiharmonic [QZWU19]. **quaternions** [RG18]. **Qudi** [BST⁺17]. **Quelltext** [DF00]. **Query** [Bis01]. **querying** [Pit18]. **quest** [Ros08]. **Questionnaires** [MD17]. **queueing** [DDMS14]. **quickly** [SW15]. **quickstart** [Feh02]. **quimb** [Gra18]. **quivers** [GS12]. **QuTiP** [JNN12, JNN13].

R [AVS20, BP17, GH18, GHN19, Mil14, Mil15, Müll13, Smi17, Smi18, XMW10]. **R/PY** [AVS20]. **R/PY-SUMMA** [AVS20]. **R/Python** [AVS20]. **Radar** [HC16]. **Random** [Hag17, KJ14, Pat16, PRH17, CSRV13]. **range** [Pip15, Sar14]. **ranging** [She97]. **rankings** [Cas20]. **Rapid** [Ano01b, GDP18, RDS07, Ree04, RCRS06, Sum08, UVa95, Gar09, ST⁺07]. **rare** [LRvE17]. **Raspberry** [BW14, Cox14, Don14, MAFM21, Nix15]. **rate** [DCOC⁺19, McF16]. **rates** [WZ18]. **Rational** [Ano00c]. **Ravishankar** [Myr15]. **ray** [CG17]. **RC** [MAFM21]. **RCLAda** [Mos20]. **RDBMS** [DDK19]. **Reaching** [Gre07]. **reaction** [WZ18]. **reader** [Sta19]. **readership** [Myr15]. **reading** [HB16, VAP⁺21]. **ready** [Ada14]. **reagent** [Pop10]. **Real** [RAH⁺01, SGPHD⁺17, Bri06, GHT08, Gup15, Jos15, Kar14, Lot14a, Sar14, Yan14]. **real-life** [Yan14]. **Real-time** [SGPHD⁺17]. **real-world** [GHT08, Gup15, Jos15, Kar14, Lot14a, Sar14]. **Reality** [UVa95]. **realtime** [MDRN18]. **recall** [HFF⁺17]. **Receptury** [BJ14b]. **Recipes** [BJ14a, Mis19, Buc15, Cox14, Law15, Per14b, Ros14, Sar14]. **Reciprocal** [Sco17]. **recoloring** [TEG18]. **Recommending** [STS⁺18]. **reconciled** [BCC⁺18]. **Reconfigurable** [Kla99]. **reconnecting** [Lon08]. **Reconstruction** [OPA⁺14, MMG19]. **Recordings** [TS14]. **recursion** [SG07]. **Reduction** [BTR14, MTPHH18]. **Reed** [Jan10]. **Reference** [Ano00b, Lut98b, Lut02, van98c, vRD05a, Bea00, Bea01, Bea06, Bea09b, GHT08, Lut05, Lut14, Stu03, Stu07, van95b, van95c]. **Referenz** [EK08]. **Refinement** [LP19]. **region** [Ott18]. **region-based** [Ott18]. **Regression** [BHF16]. **Regular** [Stu03, Stu07, YH21, LR14, Rom14, SM04]. **Reguläre** [SKS08]. **Related** [ML16a, Wes15]. **relationship** [LFT09]. **Relative** [HAB⁺20, MTS⁺18]. **relaxation** [WMM18]. **Relaxations** [Wit15]. **RelaxPy** [WMM18]. **Release** [Chu02a, vRD03]. **Released** [Ano00c]. **Releases** [Ano00c]. **Religions** [Wil00]. **remarkable** [Tos09]. **repair** [BRM10]. **replacement** [Ano12]. **replay** [BRM10]. **report** [CM07, Pop10]. **representation** [AZLY18, HPH12, SH17]. **Reproducible** [Coe17, LeV09]. **reprogramming** [OMGDG14]. **requests** [CV15]. **resampy** [McF16]. **Research** [BVB⁺07, LeV09, Mir18]. **Researcher** [Moo21]. **réseau** [Swi09]. **Resolution** [Ble20]. **Resonance** [MB07]. **Resource** [Bru09, VFMM08]. **Resources** [Cas17]. **responsive** [Ull15]. **REST** [Suc13]. **restrained** [ABS20]. **results** [Pop10]. **RETCON** [BRM10]. **retrofitted** [TTS⁺10]. **retuschieren** [DF00]. **Reusable** [Mit00]. **reuse** [Kno08]. **reverse** [Sei09]. **Review** [Ano97b, Ano97a, Ano00a, Ano13, Ano14, Ano15a, Ano15b, Cla15, Gve09, Ish17, Ish19, Jan10, Joh97, Lak17, Lee17, Mat16, Orb18, Orr05, Roo98, Wep15]. **Reviews** [Ano00b, Bax01, Hug01]. **Revolve** [HA20]. **Rexx** [Pre03]. **rft1d** [Pat16]. **RGBXY** [TEG18]. **RGBXY-space** [TEG18]. **RGEs** [LS17]. **Rich** [Lac06, Lac06]. **richtig** [DF00]. **Riemannian** [HAGH18]. **rifarensu** [SM04]. **Right** [HKM08, Buc15]. **Robinson** [Ano00a]. **Robot** [GMS17, Len15, Mos20]. **robotics** [BKMY03, BMK03, BKMY04, Len15, Men09, OMGDG14]. **Robots** [KB07, FMPS17, Men09]. **robust** [Pal14, SK19]. **Robustness** [CFMR19].

Rookies [MSW08]. **ROOT** [DOS17]. **root_numpy** [DOS17]. **roots** [GS12]. **ROPTLIB** [HAGH18]. **ROS** [Len15]. **Rossum** [Chu02b, Dou98, Kuc98a, Sev15a, Sev15b]. **Routines** [Mül13]. **rowan** [RG18]. **RPC** [Por03]. **RPython** [MRG17]. **Ruby** [SKS08, Bla02, Bla04, Gut04, Ngu08d, Ngu08e, Stu07]. **rule** [Sto13]. **rules** [SK19]. **run** [Pip15]. **Running** [Ber13, SW15]. **runtime** [VSS17]. **Russell** [Ano00b].

safe [Men09]. **Saha** [Ano15b]. **salabim** [vdH18]. **SALib** [HU17]. **Salt** [Hos12]. **sample** [McF16]. **sampled** [SH19a]. **Sampling** [BFM18, OPA⁺14, SN12, YH21]. **San** [ACM92, Ano97c]. **SATLAS** [GdGB⁺18]. **Scalable** [GFB⁺14, Lon08, RSRT19, Pip15]. **scale** [BL97b, BHJ⁺18, BCG05]. **scales** [PBN⁺09]. **Scaling** [MAC14]. **Scatterplot** [FM16]. **Scheme** [DF00]. **Schemes** [BHF16, Sta17]. **schneller** [Wei06b]. **schwimmbad** [PWFM17]. **Science** [IEE97b, Lan08, MT18, Van16, VMFG17, BM15, HHK⁺09, Lan06, Lan07, Mad15, MR07, Mil14, Mil15, Nel15, Rad06, RMZG06, Ras18, Ros14]. **Scientific** [DGMP09, DY96b, DY99, HTA⁺97, Hin02, Oli07, PG07, PGH11, SDS00, Sma12, VB08, BL97b, Ber13, CLM05, CSRV13, DDMS14, FKA⁺17, Hil15a, Hil20, JAGP14, Lak17, Lan09, Lan11, Lan12, Meh15, Nil07a, NEGZG18, Ras18, RCRS06, RRRGVD19, SML06, Wep15, YFD98]. **Scientist** [Dow15, KHD⁺16, Dow09, DDK19]. **Scientist-Orientated** [KHD⁺16]. **Scientists** [MA11, Ste14]. **scientometric** [RRRGVD19]. **ScientoPy** [RRRGVD19]. **Scikit** [HLR15]. **Scikit-spectra** [HLR15]. **SciPy** [Ber13]. **SCO** [DF00]. **Scope** [Myr15]. **Scott** [Ano19, Mit00]. **scraper** [Nai14]. **scraping** [Mit15, Nai14]. **scratch** [Len15]. **Scripting** [Ano98d, Bea98, Dör08, Hin07, Kak08, Lan08, Lut98a, Lut01, McG98c, Ngu08e, Pre03, Rem01b, Wei06a, AW06, Bea96, BL97b, CEI⁺12, FhDAF09, LS97, Lan06, Lan07, Ngu08d, She97].

Scripts [Bla04, LM03, She97, Van97b, Ano12, Bla02, Ngu08d, PMBF17, Vai09, Vai14]. **seamlessly** [CV15]. **Searching** [KBLJ18]. **Seattle** [CI96]. **Sebastopol** [Ano97a, Ano00a]. **Second** [Ano00b, Orb18, USE96, Ano00c]. **Secret** [Swe13, Lot14b]. **security** [O'C13, Ste06]. **Sed** [Bla02, Bla04]. **Seiki** [SM04]. **Seitz** [Ano15a]. **selection** [SVY09]. **Selective** [Zuk97]. **Selenium** [Gun14]. **Self** [VMFG17, HWW⁺15, MD15]. **Self-Explain** [VMFG17]. **self-optimizing** [HWW⁺15, MD15]. **semantic** [OA17]. **Semi** [Ano97d, KVSC21]. **semi-empirical** [KVSC21]. **Semi-Structured** [Ano97d]. **semiconductors** [BMZ⁺18]. **Semidefinite** [Wit15]. **semistructured** [HGMC⁺97]. **sendmail** [Ano00b]. **sense** [Mad15]. **Sensitivity** [HU17]. **Sensor** [KBC⁺20]. **Seq** [SNB⁺19]. **serial** [CLM05]. **Series** [KSB12]. **Server** [Ang00b, Ang00c, Ano00c, Ano01b, GMS17, Mit00]. **Servers** [Kla99]. **services** [CV15]. **Seven** [Pre00]. **sharing** [Hos14]. **sharpen** [Ros14]. **Shawcroft** [Ano19]. **Shell** [Bla02, Bla04]. **shmlast** [Sco17]. **short** [MDRN18]. **Should** [How06]. **Showcase** [USE00]. **SIAM** [HTA⁺97]. **Signal** [APS10]. **Signatures** [RG20]. **Simple** [MAFM21, AW06, GWM18, Lub14, She97, WHG17]. **simplify** [GQCP⁺18, HLS006]. **SimPrily** [GQCP⁺18]. **simulate** [Len15]. **Simulating** [MMEH08, BFT20, Mar17, SV14]. **Simulation** [JPOB20, AM19, ABGD⁺20, BSG⁺16, DPH16, DFC18, FC17, vdH18]. **simulations** [CMM14, DEMM19, GQCP⁺18, HHP⁺16, ML16b, RKVL14, San13, SHFJ18, Wie18]. **Simulator** [LFN⁺11, ZL20]. **SimuPy** [Mar17]. **singularities** [SL21]. **site** [DMC⁺15]. **sites** [RDS07]. **sized** [LRvE17].

sizing [Hug18]. **Skew** [Wim12]. **Skew-Symmetric** [Wim12]. **Ski** [MH18]. **skijumpdesign** [MH18]. **Skill** [Ngu08d]. **Skills** [Ano20, DV21, LFT09, Ros14]. **Small** [FSZD20]. **Smart** [Seg07]. **SMMP** [MMEH08]. **Smooth** [Pat16]. **SNAP** [LS16]. **Snippet** [Har15, Moo21, XMW10]. **SOA** [Suc13]. **SoC** [LHM14]. **social** [sR11, Rus14]. **Soft** [AJYH18]. **Software** [ACM97, Ano01b, BH12, Coe17, Gve09, HPT+16, Hin03, IEE97b, LRvE17, ML16a, PHH+12, RRRGVD19, STS+18, SdSS16, SJL18, Tro96c, Tro96a, Tro96b, Tro97, Yes15, CG17, DPH16, Dow09, Hen08, JAGP14, KCS11, KI19, Ros08, TV13, ZKB+08, Ano00c, Ano01b]. **solar** [HHM18]. **Solaris** [DF00]. **Sold** [RAH+01]. **Soldier** [RAH+01]. **solute** [DMC+15]. **Solution** [BT06, LMW12, Bra13, DCOC+19, Mis19, SSH16]. **Solutions** [Tro96c, Tro96a, Tro96b, Tro97, Sar14]. **Solve** [Dah18b, DB17, MSL+07, Kar14, Wil05]. **solvent** [CBB14]. **solvent-filled** [CBB14]. **solver** [CFCB17, CBB14]. **Solvers** [CL06, CFMR19, SSH08]. **Solving** [ŠBA+15, CKK+13]. **something** [Orl97]. **Sometimes** [Wil02]. **sophisticated** [She97]. **Sorted** [Har15]. **soundness** [VSS17]. **Soup** [Nai14]. **Source** [Anoxxd, HYG16, JPOB20, LFN+11, Ray98, Bah15, BK19, CFW17, CG17, DPH16, HU17, Idr14, JNN12, JČMG11, KPK+17, KSH14, MDRN18, SML06, TV13, Ull15, You08]. **sous** [Bla02, Bla04]. **Space** [JWHS16, STS+18, SBMD14, TEG18]. **Space-Time** [JWHS16]. **Sparse** [Wit15, LRPD18]. **Spatial** [LVH+18]. **Special** [Bal12, Kor11]. **Special-Function** [Kor11]. **specific** [HWW+15, Sla15]. **Specified** [MH18]. **spectra** [Mur18, HLR15]. **Spectral** [CH17, Spe19]. **Spectrometry** [SN12]. **Spectrometry-Based** [SN12]. **Spectroscopy** [HLR15]. **'Spectrum'** [CH17]. **Speculative** [JCY+19, BB17]. **spike** [MK16]. **Sprachgrundlagen** [EK08]. **Spring** [Eur91]. **SQL** [SCAK+19, Ano20]. **SQLAlchemy** [Cop08, Gar09]. **squeezing** [Ano19]. **Sridevi** [Myr15]. **SRIM** [OZW18]. **stack** [Ras18, Hos12]. **Standard** [Lun01, Gar09, HCPF95, Spi18]. **Starbase** [Ano00c]. **Starch** [Ano15a, Ano15b]. **Stark** [CFSK14]. **Stark-effect** [CFSK14]. **Stars** [Gre07]. **start** [Cha15, Cla15, Her14]. **Started** [Nai14, Hos12, McG07b, Nix15, Ric13]. **Starting** [Gad09]. **State** [SBMD14, Wei15]. **state-of-the-art** [Wei15]. **stAtes** [KBLJ18]. **static** [FhDAF09, RJAL09, RF16]. **statically** [CEI+12, IOC+12]. **statically-typed** [IOC+12]. **statistical** [CSR13, San13, Wei15]. **Statistics** [ICVG14, JWHS16, SLGB14, Sah15, Ish17]. **Steering** [YFD98]. **Stencil** [LLL+20]. **Stern** [CBB14]. **stk** [TBJ18]. **Stochastic** [PHF10]. **Stop** [Ray98]. **Storage** [BDT13, KI19, NEGZG18, PFH+16]. **store** [Fas18]. **stored** [HF06]. **Straightforward** [Dah18c, Arb14]. **strain** [SH19b]. **strategies** [BDT13, PFH+16]. **Strategy** [MWS18]. **street** [Boe17]. **string** [Huc18]. **Structure** [CSZ+19, FPSZ21, HTH+20]. **Structured** [Ano97d, Mur18]. **Structures** [ISMA18, Jan10, RZ09]. **Structuring** [Ngu08a]. **stub** [vd91]. **Student** [Lee17, SG07, SL08, WX18, Ish19, KN15]. **Students** [SDS00, HS13, Lon08]. **Studies** [JWHS16, UK12]. **Studio** [SW14, SW14]. **Study** [TS14, AJJF14, LJ19, LHM14, OMGDG14, Rad08, RCRS06]. **Studying** [MAFM21, May21]. **stuff** [Swe14]. **Stunden** [Wal07]. **Style** [Wei06b]. **subspaces** [CHG+16]. **substances** [Zie19b]. **Successful** [RMZG06]. **such** [Gup15]. **suitability** [OMGDG14]. **suite** [BST+17, GDP18]. **SUMMA** [AVS20]. **Summarization** [VPO19]. **Summit** [Ray98]. **support**

[DDK19, HB16, HMD⁺96, IOC⁺12, Tab10]. **supporting** [KL97]. **supports** [SML06]. **supramolecular** [TBJ18]. **survey** [Ish17, ICVG14, MTS⁺18, RRRGVD19]. **SuSe** [RAH⁺01]. **SVG** [Ada14]. **SW** [Wu13]. **Swarm** [Mir18]. **SWIG** [Bea96, Bea98, Cot03]. **Switzerland** [IEE97a]. **Symbolic** [JCY⁺19, AM10, BKC14, Cri18]. **symbolically** [Dah18b]. **Symmetric** [Wim12, CFSK14]. **symmetry** [CFSK14, FPSZ21]. **Symposium** [ACM97, HK95, IEE97a]. **SymPy** [JČMG11]. **synchronizing** [DTM⁺18]. **Synchronous** [HA20]. **synchrony** [MK16]. **Syngress** [Ano13, Ano14]. **Syntax** [SS13]. **synthesizing** [LWH⁺10]. **System** [Ang00a, Ano00c, BHS18, Bru09, EVV12, IG19, Kor11, LLL⁺20, PG07, ZGL20, GJ08, Hos12, HMD⁺96, KCS11, KL97, Sil14, Ste06, Mos20]. **Systems** [CI96, ESM98, Eur91, KDC⁺18, LP19, MS07, MGS07, USE96, CR15, DPH16, Dah18c, Dah18b, DFC18, DDMS14, FC17, HHM18, JNN12, JNN13, JČMG11, LHM14, Mar17, MMP11, Pal14, QZWU19, SAA18, VSS17].

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