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× [GML+23].

1 [LRS21, Zin15]. **12** [BS24, BBSPK22, GES14, GYSH19, HAGM14, HAG15b, JK20, OWK21, Tag24, TM14, TSAA+23]. **16-18** [All23]. **19** [MSV+23].

2 [RSL22].

4 [Men24].

6 [IKWR22].

7th [SA20].

= [GML+23].

ABC [REB23]. **ABET** [Blu22]. **Abilities** [AJNN20, JNA18]. **Ability** [Tag24]. **Abstraction** [DSU20, KDV22, SSD09, SA20]. **Academia** [NJK19]. **Academic** [KPM18, WF24]. **Academics** [SDBJ19]. **Academies** [DLM11]. **Accessibility** [CGZ+20, PLB+12, WCPF20, vdMHVH23]. **Accomplishment** [ZD15]. **according** [MM12]. **Accreditation** [Blu22]. **Achievement** [AANK14, BJCS21, CHA17, Zin15]. **ACM** [BXS+24, Ko22a, TM09, CB19]. **Across** [AM21]. **Action** [IT17, LMGVS+16]. **Active** [VI13, IT13]. **Activities** [MDS16, MJC23, RKM20]. **Activity** [LC21]. **Adaptive** [VMAG22]. **Adding** [BLNC09, DJHGI19]. **Address** [RvJP20]. **Adoption** [EHBA+23]. **Advocates**

[SYP24]. **Affect** [TAL17]. **affordable** [AGEL13]. **African** [EKSW11, TSAA+23]. **After** [PHRC21]. **After-Hours** [PHRC21]. **Age** [Con24]. **Agenda** [HOC17, SF19, TS20]. **Agents** [Par23]. **Agile** [FEC17, MSH10]. **AI** [AH24, Con24, SMM+24, TMSA22]. **Aimed** [Bra24]. **Algorithm** [Kar09, RVI09, SCA+10, UFVI09]. **Algorithmic** [Kie09]. **Algorithms** [EK17, VI13]. **Alice** [Coo10, UCK+10]. **Alignment** [Blu22]. **All-Female** [LBT20]. **Alleviate** [KV15]. **Alliance** [DBBR11, GHT+11]. **Alone** [SNG+22]. **Aloud** [WSLR23]. **Also** [AH24]. **Alternative** [BC12]. **alternatives** [Gri13]. **Among** [CGON24, MSV+23, Blu22, MVR+24]. **Analogical** [KMW22]. **Analysis** [Akd23, AANK14, BF23, DSUP20, FWD+24, GGT20, KG22, LMGVS+16, LSSM19, MVR+24, PDF15, RVAN15, Shi16, UR17, WCT+24, ZJWF11]. **Analytics** [GBB+17, GK17, HOC17, KG18, TWH18]. **Analyze** [VFFT16]. **Analyzing** [AHL17]. **Android** [Mod21]. **Animation** [Kar09, UFVI09]. **Answer** [JK20, Sho23]. **Answers** [HAG15b, RWS+24]. **AP** [SNG+22]. **API** [TCK21]. **Application** [CG19, Mod21, RMNC10]. **Application-Oriented** [RMNC10]. **Applications** [KMW22, TWH18]. **Apply** [Tag24]. **Applying** [ETN+21]. **Approach** [AANK14, BKZL23, BHHMG21, BC12, CMSP20, ETN+21, Joh19, KLS+14, MFM+16, Mod21, PGJS17, TAL17, VS22, CHM13]. **Approaches** [CHU+09, GBB+17, KLM15, KA16]. **Apps** [CMSP20, NBTC+24]. **Aptitude** [VCMV23]. **Architecture** [Mit14, Shi16, SPR12, Wan11]. **Architecture-Based** [Shi16]. **architectures** [ZPB13]. **Areas** [KS14]. **Arising** [LC21]. **Art** [Ip12, PLF22]. **Artificial** [AMD22, LGGS22, RAS24]. **Artists** [Fie19]. **Arts** [BBD+10, BB10, BCD10, WK10]. **Asking** [Ten14]. **Aspects** [NCW22]. **Assembly** [SPR12]. **Assess** [HCAT23]. **assessed** [Lar16]. **Assessing** [BCZ19, DTT16, FDW19, MPDS24, Mod21, PGJS17]. **Assessment** [DJGIO20, DHH+15, Lai22, LFU23, LIG22, NCW22, PLF22, PE23, Ric09, RWS+24, RB22, SDBJ19, VMAG22, VVM+24, WCT+24]. **Assessments** [Alb20]. **Assessors** [DJGIO20]. **Assignments** [AvdM21, RRKP13]. **Association** [BSS20]. **Associations** [PCH09]. **Athletic** [Joh19]. **Attainment** [LZR24]. **Attitudes** [BBF+21, LLF22, Pad24, PLB+12, RVSW23, REB23, TABA12, ZQLW24]. **AuDeNTES** [MM12]. **Audience** [AMD22]. **Authenticity** [LBM24]. **Autograding** [HBVTN21]. **Automata** [IIRY17]. **Automated** [KJH19, MBKS24, PLF22]. **Automatic** [LFU23, MM12]. **Average** [TWH18]. **Aware** [VGRM19]. **Awareness** [VGM+23].

Back [RS14]. **Background** [MVR+24]. **Backward** [TM15]. **Bare** [LMGVS+16]. **Barrier** [Ros23]. **Barriers** [GYSH19, PGJS17, Par23]. **Based** [AAGH14, BL14, DTT16, GGT20, GBB+17, HHM19, HOC17, KCB+23, Lai22, LMGVS+16, MFR13, MFM+16, MR22, O'G12, RAS24, RT15, Ric09, RV09, RMNC10, SSSC18, Shi16, TAL17, WW17, HM22, MGM+23, Mod21, VS22]. **Basic** [WZL+22]. **BDSI** [WZL+22]. **Be** [SYP24, SNG+22, LGP13, Ros23]. **Behavior** [CHA17, COK24, DSS21, LFU23, LSTA22, PGJS17]. **Behaviours** [BBF+21]. **Behind** [PLB+12]. **Being** [RHSS20, VGM+23]. **Beliefs** [BA17, CGON24, FPSS22, FPSS23, REB23, Ros23]. **Belonging** [RMBM24]. **Benchmarks** [HB15]. **Benefit** [DCW19]. **Benefits** [MFCLG19]. **Berkeley** [CHH+11].

Between [DJGIO20, FPSS23, LRVW14, MVR+24, SDBJ19]. **Beyond** [Lai22, PG23]. **Bi** [Vog21]. **Bi/Multilingual** [Vog21]. **Bidirectionally** [RG19]. **Binary** [PCH09, RVSW23]. **Black** [BSA+23, BSP24, FTD+24, FWD+24, LGGS22, MFH24, RTE21, RHSS20, TBB24, WDC+24, WF24, ETN+21]. **Blending** [CHA17, IT17]. **Block** [GBB+17, WW17]. **Block-Based** [GBB+17, WW17]. **Blocks** [Bra24, CG19]. **Bloom** [DTT16]. **BlueJ** [BS10]. **Bob** [RWS+24]. **Body** [DTT16]. **Bolstering** [BSA+23]. **Boolean** [HLKZ12]. **Boot** [LG21]. **Bot** [RWS+24]. **Botswana** [TSAA+23]. **Boy** [DBR+20]. **Brain** [CG19]. **Brain-Computer** [CG19]. **Brains** [CG19]. **Brazil** [Men24]. **Brazilian** [DBG+23]. **Bridge** [HM21]. **Bridging** [LRVW14]. **Briefs** [MR22]. **Bring** [RWK+15]. **Bringing** [HB15]. **Broadening** [CHH+11, DBBR11, LV11a, LV11b, Ros23]. **Bugged** [ABCD20]. **Building** [SGHZS19, TDMN+24].

C [WX18]. **Calculus** [CKSS21]. **California** [TMSA22]. **Camp** [BSP24]. **Camps** [LG21, OPC17]. **Can** [ASG19, AH24, IDC+19, LGP13, SNG+22, Sho23]. **Candidate** [BKZL23]. **Cannot** [HSGB24]. **Capital** [FTD+24, VSK22]. **Capitalize** [IDC+19]. **Capstone** [DJGIO20, PD22, TBP21]. **Capstones** [SH18b]. **Capturing** [Lar16]. **Cards** [TBP21]. **Career** [DBR+20, LRJ14, MHP20, RHSS20, SNG+22]. **Careers** [BCZ19, OPC17, PG23, RCS11]. **Case** [BBD+10, BAR14, BCC+19, BWE11, DMBP22, GND19, GM11, KMB+15, LSSM19, Par23, SSD09, VS22]. **Cases** [SK24]. **Cash** [RMM21]. **Cash-free** [RMM21]. **Causal** [DBM24]. **Center** [RB24]. **Centered** [GMM17, LRS21, NAG+23, RSL22, RC13]. **CER** [DM23]. **Challenges** [ALHR17, BBG12, GES14, SGHZS19, SSAT24, VGRM19, VGM+23]. **Change** [AB24, FPSS22, PS21]. **Characteristics** [All23]. **Characterizing** [ENC+24, YB19]. **Chat** [HCAT23]. **Chatbot** [PD22]. **ChatGPT** [Men24, RWS+24, Sho23]. **ChatGPT-4** [Men24]. **Child** [HHM19]. **Children** [DCW19, WDC15, WDCT20, vdMHVH23, AH24]. **China** [CJS+17]. **Chinese** [TB16]. **Choice** [ASG19, LRJ14, MHP20, RHSS20]. **Choices** [MDS16]. **Chutes** [LD19]. **CISing** [YBV23]. **Class** [BHHMG21, PCH09, YR15]. **Classes** [Xin15]. **Classifying** [All23, SPC19]. **Classroom** [BWE11, GMM17, HB15, LSSM19, MRG17, SSSC18, Gri13]. **Classroom-Based** [SSSC18]. **Classrooms** [RPT+22, WW17, ZCJR20]. **cloud** [ZPB13]. **clouds** [RRKP13]. **Co** [TDMN+24]. **Co-ML** [TDMN+24]. **Coaches** [IKWR22]. **Coaching** [MRG17]. **Code** [ABCD20, CJS+17, DJHGI19, ILRD20, NCW22, SOB24, VMFG17, HAA13, LC21, NJK19]. **Code.org** [MMFR20]. **CodePlus** [LBT20]. **Coding** [BKZL23, KO22b, LG21, TK16, TMSA22]. **Cognition** [Rob22]. **Cognitive** [DZS22, LRJ14, RJJ10, TAL17]. **Cohort** [BTF+19]. **Collaboration** [Bol22, ZQLW24]. **Collaborative** [CDK+14, MBSBA09, TDMN+24, VFFT16]. **College** [BJCS21, BSS20, CKSS21, EKSW11, GMM17, LR11, LD19, MDS16, RP19, WDK20]. **Colleges** [She13]. **Collusion** [KSCP22]. **coloniality** [Gey24]. **Color** [DMBP22]. **Combining** [CDB+22, HCAT23]. **Comments** [VMFG17]. **Communication** [BBG12, KKNL21, MGM+23]. **Communications** [MAK12]. **Communities** [LC21]. **Community** [FKG17, KRH+24, LD19, NBTC+24, YBV24]. **Como** [Vog21]. **Companies** [RB24]. **Comparative**

[FWD+24, MVR+24]. **Comparing** [DSU20, ECF18, WW17]. **Comparison** [CJS+17]. **Competence** [SSB+23, TSK12]. **Competency** [BF23, Lai22]. **Competitive** [COK24]. **Compiler** [SSD09]. **Complexity** [EK17, KDV22]. **Complications** [TSV18]. **Component** [HSGB24]. **Composition** [HSGB24]. **Comprehension** [KDV22]. **Compulsory** [DJHGI19, Hub12]. **Computational** [EVM24, FKG17, FEC17, GBB+17, KLS+14, KCB+23, KKNL21, KO22b, Lai22, LIG22, MBR23, PE23, RG19, SNOT21, Tag24, TM11a, VMFG17, WDC15, WDCT20, WHS+17, WSP+11, YMZ+14, YR15]. **Computer** [AZK+20, All23, Arm11, BVNN22, BBD+10, BB10, BDDGT14, BAR14, BSA+23, BHHMG21, BBG12, Ber23, Blu22, BJCS21, BSP24, BWE11, BBF+21, BSCH14, BXS+24, BCD10, BSS20, CKSS21, CMSP+19, CMSP20, CG19, CHP+18, DCW19, DJGIO20, DBR+20, EBC+21, EHPR+23, EHBA+23, FPSS22, GES14, Gey24, GM14, GM11, GMM17, GbGG+23, HB15, HM22, HHM19, Hub12, HAGM14, HAG15b, IIRY17, IKWR22, JMN+22, JK20, KWB20, KS14, KFME11, KMB+15, Lai22, LK19, LMGVS+16, LLF22, LKOL+24, LZRO21, LSHY22, LD19, MFM+16, MHP20, MPDS24, MRG17, MMFR20, MLA+24, MW18, MR22, MSV+23, Men24, MFH24, NAG+23, NBTC+24, PLF22, PGJS17, Par23, Pet19, PS21, PO20, RVAN15, RSPB17, RJJ10, RWK+15, RWS+24, REB23, RHSS20, RV09, RCS11, Ryo19, RB24, SNG+22, SCMR24, She13, SPR12, SA20]. **Computer** [TK16, TB16, UR17, VCMV23, VFFT16, VSK22, Wag16, WK10, WW17, WDK20, YB19, YBV23, YBV24, YVQ+10, ZNF+20, ZCJR20, ZJWF11, AGEL13, Gri13, KG22, LGP13, Zin15]. **Computer-Based** [Lai22]. **Computes** [GEME14]. **Computing** [AM21, Bar09, BH16, BMB+18, BBF+21, BXS+24, Bur11, CHA17, CAL15, CB19, CGZ+20, Con24, CGON24, DBBR11, DMBP22, DLM11, DZS22, DBG+23, EKSW11, EBC+21, ENC+24, ETN+21, ET12, ECF18, FTD+24, FWD+24, GND19, GHT+11, GGH+10, GYSH19, GK17, HSI+19, HCSAz22, HM22, HOC17, KLS+14, KRH+24, KRK24, KG18, LRS21, LV11a, LV11b, LSTA22, LR11, LRH+22, LZR24, LG21, MFR13, MHP20, MSK+23, MT23, MLA+24, MBE+16, MAHC+22, MDS16, MCK17, MW22, MS11, NLWS24, NAG+23, O'G12, OWK21, OHR22, Pad24, PM09, PG23, PCC+24, RB21, Rob22, RLN+22, RHSS20, RP19, RvJP20, RMBM24, RMM21, RSL22, RB24, SH18a, SDBJ19, SYP24, SNG+22, SSSC18, SH18b, SS23, TP23, TM09, TM10, TM11a, TM11b, TM14, TC19, TM22, TBB24, TSAA+23, WCPF20, WF24, YR15]. **computing** [AGEL13, HAA13, NCLN13]. **Concept** [GGH+10, IIRY17, PHP+22]. **Conceptions** [RvJP20, VS22, Xin15]. **Concepts** [AWW15, KLS+14, KA16, MLA+24, MVR+24, MS11, WBK+22, YZC19]. **Conceptual** [TPQE18]. **Conceptualizing** [MT23, TM22, Ten23]. **concurrency** [CHM13]. **concurrent** [BAGM13]. **Conditions** [RPT+22]. **Consider** [NCW22]. **Considerations** [TBP21]. **Considered** [DJGIO20]. **Considering** [CGZ+20]. **Consortium** [BCD10]. **construction** [NCLN13]. **Constructionist** [MSH10]. **Content** [BSS20, EHBA+23, VMAG22, WCPF20, YB19]. **Context** [BS24, GEME14, LZRO21, ORS16, Rob22]. **Contextualization** [LBM24]. **Contingency** [AHL17]. **Continue** [Ros23]. **Continues** [Hun17]. **Continuing** [All23, DBSH24]. **Continuum** [CB19]. **Contributions** [DM23, HCAT23]. **Controlled** [Bol22, DSUP20, DSU20, MC19, WX18]. **Conversation** [Ros23]. **Conversion**

[HM21]. **Cooperative** [BC13]. **Coordinator** [RB22]. **Copying** [DJHGI19]. **Core** [JNA18, ZPB13]. **Correctness** [DHH+15]. **Counter** [EBC+21]. **Counter-hegemonic** [EBC+21]. **Countries** [GES14, TSAA+23]. **Country** [RVSW23, ZQLW24]. **Course** [AHL17, BHHMG21, BTF+19, BCZ19, CKSS21, CDCLK17, EK17, IT17, KKLL16, LLKH18, MTGM21, NGK11, PDF15, RB22, Rit09, She13, SH10, WX18, Wan11, d'A10]. **Courses** [ASG19, CHA17, CDK+14, Ip12, MFCLG19, Mit14, OHR22, Pad24, Ric09, RB22, SSF+19, SNG+22, SBH+18, TBP21, TK16, UR17, VMAG22, HAA13, LGP13]. **Coverage** [ECF18]. **COVID** [MSV+23]. **COVID-19** [MSV+23]. **CPD** [All23]. **Crafts** [KLS+14]. **Crafts-Oriented** [KLS+14]. **Creating** [NBTC+24, Rit09]. **Creation** [RWK+15]. **Creative** [Fie19]. **Creativity** [ALP12, Sha22]. **Creativity-Supporting** [ALP12]. **Crisis** [Con24]. **Critical** [GHT+11, HOC17]. **Cross** [RVSW23, TM14]. **Cross-Country** [RVSW23]. **Cross-National** [TM14]. **Crossing** [HM21]. **CS** [Blu22, FPSS22, GML+23, HM21, KV15, LBT20, MJB+23, MSP21, PSK24, PLB+12, RVSW23, RVAN15, RTE21, RB22, SWL+22, TABA12, TWH18, VTB+20, VS22, WDC+24]. **CS1** [BC13, ORS16, Sha22]. **CS2** [TPQE18]. **CS4HS** [RSPB17]. **CS=Me** [WDC+24]. **CSF** [HBVTN21]. **CSLE** [ALP12]. **CSS** [PDF15]. **CSTutor** [BL14]. **CUDA** [DSU20]. **Culturally** [RB24]. **Current** [ALHR17, CAL15, RB21]. **Curricula** [AJNN20, BCD10, WCPF20]. **Curriculum** [Blu22, BMB+18, DTT16, McG12a, NAG+23, NBTC+24, SMM+24, WHS+17, AGEL13]. **Cyber** [AJNN20, JNA18]. **Cyber-Defense** [JNA18]. **Cybersecurity** [BF23, JNA18, LRVW14, PHP+22, SSAT24]. **Cyprus** [CJS+17].

Dance [DMBP22]. **Darmstadt** [RVAN15]. **Data** [AHL17, BA17, BL14, CHU+09, DBSH24, GBB+17, HCAT23, WZL+22, YR15]. **Data-Driven** [GBB+17, YR15]. **Database** [MTGM21]. **Dataset** [TDMN+24]. **Debieron** [Vog21]. **Debugger** [BS10]. **Debugging** [ABCD20, DBM24, ENC+24, WSLR23, YBO+24]. **Decade** [CHH+11, JK20]. **Deceptive** [WCT+24]. **Decisions** [HM22]. **Decoding** [YBO+24]. **Decoloniality** [Gey24]. **Defense** [AJNN20, JNA18]. **Defining** [NLWS24]. **Degree** [AANK14, McG12a]. **Demo** [KDXB18]. **Demo-Oriented** [KDXB18]. **Demographics** [LZRO21]. **Derived** [AHL17]. **Describing** [HLKZ12]. **Description** [LBM24]. **Descriptive** [Blu22]. **Design** [BC13, BC12, Bra24, Bur11, CMSP+19, Coo10, DCW19, EKSW11, GML+23, Ip12, Joh19, KCB+23, LSSM19, OWK21, PCH09, RWK+15, RG19, RLN+22, Shi16, TSK12, TP23, TDMN+24, Xin15]. **Design-Based** [KCB+23]. **Designers** [MW22]. **Designing** [BBSPK22, NCLN13, OHR22, Ric09]. **Desk** [Hun17]. **Detection** [MM12, NJK19]. **Developing** [MHP20, MR22, TSK12, TDMN+24, WHS+17, ZQLW24]. **Development** [All23, AWW15, BCZ19, BCC+19, BBF+21, CG19, EVM24, HM19, HCAT23, Ip12, JMN+22, KO22b, Lar16, MSK+23, MJB+23, MW22, MC15, Mod21, PDF15, PHRC21, RSPB17, Rit09, REB23, VS22, VGRM19, VGM+23, ZD15]. **Devices** [RP19, TSK12]. **Diagnosing** [Kie09]. **Dialog** [KDM+23]. **did** [IT13]. **Didactical** [BDDGT14]. **Difference** [AM21]. **Differences** [Har21, RVSW23, SDBJ19]. **Different** [DSU20, DM23, KLM15, KA16, TAL17]. **Difficult** [EK17, VVM+24, YZC19]. **Difficulties** [HLKZ12, LBK11, MS19, QL17, VVM+24].

Digital [BC12, Gey24, MW18, RG19]. **Digital-coloniality** [Gey24]. **Dimensions** [TB16]. **Directed** [MBE+16]. **Directedness** [BBSPK22]. **direction** [IT13]. **Discipline** [MFR13, Pet19, TM10]. **Discipline-Based** [MFR13]. **Discovering** [VGRM19]. **Discrepancies** [DJGIO20]. **Discrepancy** [DBM24]. **Discrimination** [LLF22]. **Discussion** [UCK+10]. **Discussions** [RB24]. **Disgusting** [AH24]. **Disrupting** [RLN+22]. **Distributed** [BTF+19, BCZ19, BCC+19, ORKH09]. **District** [PS21]. **District-Wide** [PS21]. **Diversified** [SNG+22]. **Diversity** [BVNN22, BCC+19, GML+23, GYSH19, LLF22, RBSS11]. **division** [LGP13]. **Do** [AH24, AB24, BBG12, LRH+22, MSP21, MFH24, NCW22, TAL17, CHP+18, HM22]. **Does** [DCW19]. **Doesn't** [MS11]. **Doing** [NLWS24]. **Domain** [Bol22, MSK+23]. **Domain-specific** [MSK+23]. **Domains** [LRVW14]. **Don't** [GVA22]. **down** [ZPB13]. **down-to-earth** [ZPB13]. **Driven** [GBB+17, Shi16, YR15, CHM13, LMH21]. **Drop** [DBG+23]. **Drop-out** [DBG+23]. **Dual** [Rob22]. **During** [BSP24, RKM20, RJJ10, AL22]. **Dynamic** [CHU+09].

Early [CHA17, MR22, OHR22, RSPB17, HAA13]. **EarSketch** [MFM+16]. **earth** [ZPB13]. **Easily** [HSGB24]. **Easing** [Bra24]. **Easy** [WBK+22]. **Ecosystem** [FTD+24]. **Editor** [Hun17]. **Editorial** [MT23, RVI09, TM11a, TM11b, TM14, TM22]. **Editors** [BB10]. **Educating** [KSCP22]. **Education** [AMD22, AM21, BDDGT14, BLM+14, Blu22, BH16, BCC+19, BBF+21, BXS+24, Bur11, CAL15, CB19, CJS+17, DBSH24, DZS22, EKSW11, EBC+21, ET12, FTD+24, Fie19, GES14, GND19, Gey24, GVA22, GbGG+23, GK17, GEME14, HSI+19, HCSAz22, HM19, HHM19, Hub12, HAGM14, HAG15b, HOC17, ILRD20, IIRY17, IKWR22, JK20, Joh19, KMW22, Kie09, KCB+23, KMB+15, KG18, KV15, LRS21, LV11a, LV11b, LMB+22, LSTA22, LMH21, LRVW14, LSHY22, MFR13, MFM+16, MSK+23, MT23, MSV+23, MCK17, MBKS24, MW22, O'G12, OWK21, PLF22, PGJS17, PM09, PCC+24, RVAN15, RTE21, RWK+15, RLN+22, RVI09, RSL22, RB24, SSAT24, SYP24, SAyC+21, SH18b, SKM13, SS23, TS20, TP23, TM10, TM11a, TM11b, TM14, TC19, TM22, TWH18, TSAA+23, VMFG17, VSK22, WF24, YMZ+14, ZQLW24]. **education** [NCLN13, Sor13, TM09, CB19]. **education-friendly** [NCLN13]. **Educational** [Har21, KS14, LRH+22, MC19, UR17, ZPB13]. **Educator** [BA17]. **Effect** [Blu22, HSGB24, LBM24, MPDS24, MMFR20, RHSS20]. **Effective** [All23, ORS16, RJJ10, LGP13]. **Effectively** [ORKH09]. **Effectiveness** [MGM+23]. **Effects** [DJHGI19, DBR+20, MS11]. **Efficacy** [LBT20, RAS24, RCS11, SCMR24, ZQLW24, CMSP+19, LY21, ZNF+20]. **Effort** [RKM20]. **Electronic** [JK20, KLS+14]. **Elementary** [KCB+23, LKOL+24, LIG22, VTB+20, YMZ+14]. **Elo** [VMAG22]. **Elo-rating** [VMAG22]. **Else** [MRG17, RP19]. **Emancipation** [EBC+21]. **Embodied** [MCK17, MC19]. **Emerging** [RB21]. **Emotions** [AL22, AB24]. **emphasizing** [IT13]. **Empirical** [AvdM21, GGT20, MFCLG19, MTGM21, Sho23, SS13]. **Empiricism** [HCSAz22]. **Employability** [IDC+19]. **Employers** [SWL+22]. **Enabling** [IDC+19, LG21]. **Encourage** [ETN+21]. **Endeavors** [CAL15]. **Ended** [DBM24]. **Engagement** [CDB+22, MBSBA09, SMM+24]. **Engaging** [KFME11]. **Engineer** [SK24]. **Engineering** [Akd23, AL22, AB24, BTF+19, CDK+14, CB19, DTT16, DJGIO20, FEC17, GVA22, Joh19, KFME11, MFR13, MPTV16, Mit14, Pet19, VMFG17]. **Engineers**

[BCZ19, GGT20, MGM+23]. **Enjoyment** [ZD15]. **Enter** [LG21]. **Entering** [RB21]. **Enthusiasm** [Lar16]. **Entry** [RMBM24, TM11b]. **Environment** [ALP12, CDK+14, CDB+22, COK24, DMBP22, Köl10, LMGVS+16, MRR+10]. **Environments** [FU10b, GYSH19, GBB+17, IDC+19, Kie09, VFFT16]. **Epistemological** [Ros23]. **Equation** [LRJ14]. **Equations** [BKZL23]. **Equitable** [GYSH19]. **Equity** [FKG17, IKWR22, KFME11, VS22, WCPF20, ZCJR20]. **Equity-based** [VS22]. **Errors** [MK19, MFA23, PDF15, TSV18, WCT+24]. **Essential** [ZD15]. **Estimating** [BKZL23]. **Ethical** [HM22, Pad24]. **Ethics** [BXS+24, HM22, MAHC+22, RB24, SSF+19, SMM+24]. **Ethics-Infused** [SMM+24]. **EU** [SOB24]. **Evaluating** [Men24, VGRM19, WCPF20]. **Evaluation** [Bra24, HCAT23, Joh19, KM16, KLM15, LFU23, PHP+22, RSPB17, Rit09, Shi16, Wan11, BC13, LY21]. **Evaluations** [UFVI09]. **Event** [LMH21]. **Event-driven** [LMH21]. **Everyday** [RvJP20]. **Evidence** [MR22, MGM+23]. **Evidence-Based** [MR22]. **Exacerbates** [Ros23]. **Exam** [Men24]. **Examination** [Ip12, WK10, WF24]. **Examining** [DMBP22, JMN+22, RTE21, RHSS20, SCMR24, Zin15]. **Examples** [BNP11, MJC23]. **Executing** [SH18a]. **Execution** [BS10]. **Exemplars** [LMB+22]. **Exercise** [SGHZS19]. **Exercises** [DJHGI19, KJH19]. **Existing** [BF23]. **Expanding** [HM19]. **Expect** [GVA22]. **Expectations** [CGON24]. **Experience** [dCBBOSH24, FKG17, Har21, Pet19]. **Experienced** [AL22, ET12, RB22]. **Experiences** [Bar09, BSP24, ECF18, KFME11, LRH+22, NAG+23, PG23, TBB24, WF24, YBV23, YBV24]. **Experiment** [Bol22, WX18]. **Experimental** [VI13]. **Expert** [MFA23]. **Experts** [GVA22, SDBJ19]. **Explain** [VMFG17]. **Exploration** [LZRO21, MPTV16]. **Exploring** [BS24, dCBBOSH24, ET12, GM11, HM19, MVR+24, RWS+24, VS22, Vog21, WDC+24, ZQLW24, SNG+22]. **Expository** [WSP+11]. **Extending** [KKNL21, MBSBA09]. **Extensive** [Wan11]. **Extent** [MLA+24]. **External** [SBH+18]. **Eye** [MPDS24]. **Eyes** [KDV22, MRG17].

Fabrication [RG19]. **Face** [MGM+23]. **Face-to-face** [MGM+23]. **Facilitate** [Mit14]. **Facilitating** [SSSC18]. **Factors** [COK24, DJGIO20, DBG+23, LRJ14, Tag24, WDC+24, ZD15]. **Faculty** [Bar09, GMM17, LSHY22, YBV24]. **False** [WCT+24]. **Families** [MSV+23]. **Feedback** [HBVTN21, KSCP22, KJH19, MBKS24, ORS16, SK24]. **Female** [KWB20, LBT20]. **Fiction** [GM14]. **Field** [SCA+10]. **Fight** [SYP24]. **Final** [CGZ+20]. **Final-year** [CGZ+20]. **Findings** [MR22]. **Finnish** [KV15]. **First** [AL22, AB24, BHHMG21, CK09, NGK11, VCMV23]. **First-Year** [AB24, AL22, VCMV23]. **Fit** [BBG12, MFH24]. **Fitting** [Ip12]. **Fix** [Ber23]. **Flipped** [LSSM19]. **Flipping** [IT17]. **Focus** [BS24, Ric09]. **Following** [LMGVS+16]. **Forging** [LSHY22]. **Formal** [GEME14, LBT20]. **Formation** [Ric09]. **Formative** [HBVTN21, KSCP22]. **Formulation** [TSV18]. **Forum** [CHP+18]. **Forward** [RS14, TM15]. **FOSS** [BMB+18]. **Fostering** [AH24, SMM+24]. **Foundation** [CHH+11]. **Four** [TSAA+23]. **Fractal** [EKSW11]. **Fragile** [MW18]. **Framework** [AMD22, FEC17, GBB+17, LSSM19, MHP20, MAHC+22, MW22, SSAT24]. **Frances** [SPR12]. **free** [RMM21]. **French** [BDDGT14]. **friendly** [NCLN13]. **Fringe** [MW18]. **fsQCA** [PGJS17]. **Functional** [IT17]. **Future** [LSHY22, TS20].

Gains [PGJS17]. **Game** [Bra24, DCW19,

HHM19, LK19, McG12a, RWK+15, Rit09, TAL17, VGRM19, VGM+23, Wan11]. **Game-Based** [HHM19, TAL17]. **Games** [Ip12, WDC15, WDCT20]. **Gamification** [AZK+20, dCBBOSH24, MFCLG19, MTGM21, RPT+22]. **Gap** [Akd23, LRVW14]. **Gaps** [GGT20, GVA22]. **Gender** [BVNN22, CHP+18, Har21, KFME11, KKNL21, RVSW23, RCS11, Wag16, WDC+24, ZQLW24]. **Generalized** [BKZL23]. **Generalizing** [RVSW23]. **Generation** [BLNC09, CHU+09, EBC+21, KJH19]. **Generic** [SKM13]. **Genesis** [TC19]. **Georgia** [GEME14]. **Germany** [DBSH24, KMB+15]. **Get** [MS19]. **Getting** [OPC17]. **Girl** [OPC17]. **Girls** [BSP24, ETN+21, FTD+24, MFH24, TBB24]. **GitHub** [HCAT23]. **Global** [BTF+19, CB19, FDW19, IDC+19, SGHZS19, VGRM19, VGM+23]. **Go** [DMBP22]. **Goals** [CHP+18, MS11, SPC19, Zin15]. **Good** [AH24, NBTC+24]. **Google** [RSPB17]. **Governance** [GND19]. **GPU** [DSU20]. **Grade** [KKNL21, SA20, TWH18]. **Grades** [Zin15]. **Grading** [AvdM21, MBKS24]. **Graduate** [KG22]. **Graduates** [CGON24, SWL+22]. **Grand** [TP23]. **Graphical** [SSB+23]. **Graphics** [She13]. **GRASP** [TSK12]. **Greater** [GML+23]. **Greedy** [VI13]. **Greek** [TAL17]. **Greenfoot** [Köl10, UCK+10]. **Grounded** [HM22, RP19, SMGF24]. **Group** [AvdM21, Ric09]. **Groups** [RBSS11]. **GSD** [VGRM19]. **GSD-Aware** [VGRM19]. **GSE** [HM19]. **Guest** [BB10]. **Guide** [SH18a]. **Guided** [NGK11]. **Guidelines** [TP23].

H [BMB+18]. **H/FOSS** [BMB+18]. **Hackathons** [Har21]. **Happens** [RMM21]. **Hard** [SPC19, WBK+22]. **Hardas** [DMBP22]. **Hardware** [BC12, LRVW14]. **hegemonic** [EBC+21]. **Help** [COK24, HS13]. **Help-seeking** [COK24]. **Helping** [RT15]. **Heuristic** [KM16]. **High** [BSS20, CKSS21, DLM11, KLS+14, MFM+16, MVR+24, MSV+23, MSH10, Par23, TPQE18, WW17, WDK20, ZNF+20, ZCJR20, ZJWF11, AGEL13]. **High-Level** [TPQE18]. **high-performance** [AGEL13]. **Higher** [AMD22, CJS+17, GbGG+23, ILRD20, MSV+23]. **Hired** [LZR24]. **Hiring** [SWL+22]. **Hispanic** [GHT+11]. **Hispanic-Serving** [GHT+11]. **Hispanics** [GHT+11]. **Historical** [BDDGT14, LZRO21]. **History** [BCD10]. **Holistic** [NGK11]. **Home** [BBF+21]. **Hours** [PHRC21]. **HTML** [PDF15]. **Human** [KG22, RC13]. **human-centered** [RC13]. **Human-computer** [KG22]. **Hybrid** [LSSM19]. **Hypertext** [Kar09]. **Hypertextbook** [RV09]. **Hypothesis** [GBB+17]. **Hypothesis-Driven** [GBB+17].

i*CATch [NCLN13]. **ICT** [TSK12]. **IDE** [HOC17, OHR22]. **IDE-Based** [HOC17]. **Ideas** [SNOT21]. **Ideation** [LLF22, TBP21]. **Identification** [RJJ10]. **Identify** [LRJ14]. **Identifying** [AANK14, GVA22, LK19, VVM+24, WBK+22]. **Identity** [DMBP22, GbGG+23, JMN+22, KRH+24, LRH+22, MHP20, RTE21, WDC+24]. **IEEE** [DTT16]. **Impact** [AZK+20, BCZ19, BJCS21, CDCLK17, KG22, KRH+24, KA16, LK19, LY21, MJB+23, MDS16, MSV+23, PS21, PLB+12, ZQLW24]. **Impacts** [MR22]. **Impairments** [LR11, vdMHVH23]. **Implement** [HAG15b]. **Implementation** [LMGVS+16, BC13]. **Implementing** [AGEL13, MMFR20]. **Implications** [Bur11, UR17, VSK22, HM22]. **Implicit** [FPSS23]. **Importance** [ECF18]. **Important** [FTD+24]. **Improve** [LFU23]. **Improved** [OHR22, TWH18]. **Improving** [IT17]. **In-Classroom** [MRG17]. **In-Code** [VMFG17]. **Incarceration** [SAyC+21]. **Including** [PLB+12]. **Inclusion**

[IKWR22, LLF22]. **Inclusive** [GML+23]. **Income** [MSV+23]. **Incorporating** [SDBJ19]. **Increase** [CMSP+19]. **Increases** [RKM20]. **Incremental** [RKM20]. **Incubators** [LC21]. **Indian** [RVAN15]. **Individual** [HCAT23]. **Industry** [Akd23, Ip12, MAK12, MSP21]. **Ineffective** [RJJ10]. **Inequities** [Ros23]. **Influence** [DJGIO20]. **Influences** [McG12b]. **Influencing** [COK24]. **Informal** [CMSP+19, GEME14, LC21, PSK24, SAyC+21]. **Informatics** [BLM+14, BS24, DBSH24, KS14]. **Information** [BF23, CHH+11, KKNL21, KPM18, MHP20, MAK12, RCS11, YBV23, YBV24]. **Informatively** [WBK+22]. **Informed** [CMSP+19]. **Infused** [SMM+24]. **ing** [DMBP22]. **Inheritance** [LBK11]. **Initial** [FU10b]. **Initiatives** [PS21]. **Injections** [TK16]. **Insights** [SSAT24, SPC19, TAL17]. **INSPIRED** [DLM11]. **Institutional** [BMB+18, LD19]. **Institutions** [CJS+17, GHT+11]. **Instruction** [LIG22, MJB+23, MW18, Shi16, YBO+24, LGP13]. **Instructional** [IKWR22, BC13]. **Instructor** [AWW15, SPC19]. **Instructors** [Ebl24]. **Instrument** [REB23, VVM+24]. **Instruments** [MSK+23]. **Insufficient** [KV15]. **Integrate** [HSGB24, KCB+23]. **Integrated** [MLA+24, RG19]. **Integrating** [CDK+14, HAA13, SSF+19, TK16]. **Integration** [BSY+10, KPM18, LKOL+24]. **Intellectuals** [Con24]. **Intelligence** [AMD22, FPSS23, LGGS22, RAS24]. **Intent** [DBG+23, MLA+24]. **Intention** [ZD15]. **Intentions** [DBR+20, SNG+22, TABA12]. **Interaction** [CHU+09, KG22, OHR22]. **Interactions** [MC19]. **Interactive** [BSY+10, HEE+19, JK20, TSK12]. **Intercultural** [AM21]. **Interdisciplinarity** [NLWS24]. **Interest** [BS24, BJCS21, CMSP+19, DBR+20, MW22, OPC17, SCMR24, Zin15]. **Interface** [CG19]. **Internship** [KG22]. **Internships** [KG22, MSP21]. **Intersection** [RHSS20]. **Intersectional** [TBB24, WF24]. **Intersectionality** [LZRO21]. **Intersections** [Vog21, WDC+24]. **Intervening** [DBM24, EK17]. **Intervention** [GEME14, RKM20]. **Interventions** [FWD+24, LK19, LY21, OHR22, Pad24, YBO+24]. **Interviews** [AJNN20, JNA18, LSHY22]. **Intro** [MMFR20]. **Introduce** [EHPR+23]. **Introducing** [Bra24, CG19, KLS+14, MFR13, TM09]. **Introduction** [BB10, BAR14, BAGM13, GM14, Gri13, Hub12, LRS21, LV11a, MC15, RB21, RSL22, SF19, TBB24]. **Introductory** [BBG12, BNP11, CKSS21, COK24, GGH+10, KLM15, KA16, LY21, NAG+23, QL17, RB22, SKM13, TK16, WX18, Sor13]. **Inventories** [GGH+10]. **Inventory** [PHP+22]. **Investigate** [BKZL23]. **Investigating** [MS19, SOB24, TSAA+23, ZD15]. **Investigation** [HSI+19, HSGB24, MFCLG19, SS13, Xin15]. **Investigations** [LGGS22]. **Involvement** [BBF+21]. **Involving** [SBH+18]. **Israel** [GES14]. **Issue** [CB19, FU10b, KG18, LV11a, LV11b, MT23, MC15, RB21, RSL22, TBB24, BAGM13, Gri13]. **Issues** [CAL15, KKNL21, KDM+23]. **Italian** [BLM+14]. **Iteratively** [EK17].

Java [BNP11, BA17, BWTS+23]. **Job** [ECF18, LZR24]. **Judge** [WCT+24]. **Justice** [AM21, ETN+21, LRS21, RSL22]. **Justice-Centered** [LRS21, RSL22].

K-12 [BBSPK22, GYSH19]. **Keep** [PD22]. **Keeping** [Hun16]. **Kenya** [TSAA+23]. **Kingdom** [McG12a]. **kit** [NCLN13]. **Know** [SDBJ19]. **Know-how** [SDBJ19]. **Knowledge** [AJNN20, DTT16, DM23, ECF18, GGT20,

JNA18, Sho23, TCK21, YB19]. **Korea** [CAL15].

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Machine [BLNC09, Fie19, LMGVS+16, LZT+19, MVR+24, SSF+19, SMM+24, SF19, SPC19, TDMN+24]. **Machines** [FU10a, MBR23, Sor13]. **Major** [LRJ14, MDS16, SNG+22, ZJWF11]. **Majority** [RBSS11]. **Majors** [AZK+20, RB22, SPC19, WDK20]. **Make** [HM22, MS11]. **Making** [CMSP20, RG19]. **Maladaptive** [FPSS23]. **man** [RMM21]. **Manager** [VGM+23]. **Managing** [BCC+19]. **Many** [HAG15b, ZPB13]. **many-core** [ZPB13]. **Mapping** [BSA+23, LMH21, TS20]. **MapReduce** [RRKP13]. **Materials** [vdMHVH23]. **Mathematical** [DHH+15]. **Matters** [TM10]. **Measurement** [DSUP20, KKNL21, WDCT20, RRKP13]. **Measures** [CHA17]. **Measuring** [GBB+17, Lar16, LBT20, WDC15]. **Mechanisms** [SOB24]. **Medium** [She13]. **Medium-sized** [She13]. **Memoriam** [HAG15a]. **Mentoring** [BSP24, MSH10]. **Mentors** [BSP24]. **Merging** [Kar09]. **Meta** [DCW19, UR17]. **Meta-Analysis** [UR17]. **Meta-Synthesis** [DCW19]. **Metacognition** [LMB+22]. **Method** [AHL17, VI13, VFFT16]. **Methodology** [MSH10, SH18a]. **Methods** [FEC17, LLKH18, PO20, BC13]. **Middle** [DBR+20, FEC17, KO22b, MVR+24, MR22, NBTC+24, OPC17, SMM+24, TABA12, WSP+11]. **Middle-School** [TABA12]. **Milestones** [SNOT21]. **Mindset** [RKM20]. **Mindsets** [FPSS22]. **Minecraft** [KO22b]. **Mirror** [BSP24, LGGS22]. **Misconceptions**

[QL17]. **Missing** [MBR23]. **Mistakes** [BA17]. **Mittermeir** [HAG15a]. **ML** [TDMN+24]. **MLeXAI** [RMNC10]. **Model** [BF23, BBF+21, BCD10, EHBA+23, HOC17, LMGVS+16, RVAN15, RMNC10, Shi16, SK24, SSB+23, TDMN+24, WDCT20, CHM13]. **model-driven** [CHM13]. **Modeling** [Bol22, LRJ14, Mit14, SSB+23]. **Models** [BF23, Blu22, CHA17, MSK+23]. **Moderator** [RPT+22]. **MOOC** [CHP+18, KV15]. **Most** [EK17]. **Motivate** [BHHMG21]. **Motivated** [ASG19]. **Motivation** [MBE+16, McG12b, NGK11, WF24]. **Motivations** [CGZ+20]. **Move** [RS14]. **Movements** [MPDS24]. **Multi** [BMB+18]. **Multi-Institutional** [BMB+18]. **Multilingual** [JMN+22, Vog21]. **Multimodal** [RG19]. **Multiple** [ASG19, CHU+09]. **Multiple-Choice** [ASG19]. **multipurpose** [NCLN13]. **Musicians** [Fie19]. **Must** [RB24, SYP24]. **MyData** [SMM+24]. **Myself** [MRG17].

National [KWB20, Men24, TM14]. **Navigating** [FTD+24, SSAT24]. **Need** [Ber23]. **Needed** [DM23]. **Needs** [Ip12]. **Network** [MW18]. **Networks** [PO20]. **Neurodivergent** [KRK24]. **Next** [KMW22, Ko22a]. **Nexus** [MAK12]. **Nigeria** [TSAA+23]. **No** [PLB+12]. **Non** [DJHGI19, GVA22, Har21, LBT20, SPC19, RB22]. **Non-Compulsory** [DJHGI19]. **Non-CS** [RB22]. **Non-Formal** [LBT20]. **Non-Majors** [SPC19]. **Non-Technical** [GVA22]. **Non-traditional** [Har21]. **nontraditional** [RC13]. **Normative** [Blu22]. **Norms** [HCSAz22]. **North** [KMB+15]. **North-Rhine** [KMB+15]. **Noticing** [DBM24]. **Notional** [MBR23, Sor13]. **Novice** [ABCD20, BA17, BWTS+23, CG19, KM16, MK19, MS19, WSLR23, Xin15]. **Novices** [RT15]. **NZ** [BAR14].

Object [AANK14, BS10, KKLL16, Shi16, Xin15]. **Object-Oriented** [AANK14, BS10, KKLL16, Shi16, Xin15]. **Objectives** [PM09]. **Objects** [Xin15]. **Offering** [Par23]. **One** [KMW22]. **Online** [BBG12, DJHGI19, FKG17, HM21, SSAT24, VMAG22, VFFT16, WCT+24]. **Open** [DBM24, HM19]. **Open-Ended** [DBM24]. **Operating** [Ebl24, ZPB13]. **Opportunities** [CHH+11, PS21]. **Optimization** [SSD09]. **Orientation** [RCS11]. **Oriented** [AAGH14, AANK14, BS10, KLS+14, KKLL16, KDXB18, RMNC10, Shi16, Xin15, d'A10, AGEL13]. **Other** [Fie19, QL17]. **Our** [SYP24]. **Outcome** [LLKH18]. **Outcomes** [AZK+20, NBTC+24, OHR22, WX18]. **Outreach** [LK19, LBT20]. **Outsiders** [MFH24]. **Own** [MBE+16].

Pair [BJCS21, BWE11, UR17]. **Pair-Programming** [UR17]. **Pairing** [ZQLW24]. **Paradigms** [DSU20]. **Parallel** [DSUP20, BAGM13]. **Parental** [BBF+21, CMSP+19, SCMR24]. **Part** [LV11a, LV11b, LRS21, RSL22]. **Partially** [ORKH09]. **Participating** [FKG17]. **Participation** [CHP+18, CHH+11, DBBR11, ETN+21, FKG17, KWB20, LV11a, LV11b, LZRO21, MPTV16, PG23, Pet19, Ros23, SOB24]. **Participatory** [RLN+22]. **Partner** [YBV24]. **Partnership** [EHPR+23]. **Pass** [SSD09]. **Path** [LSHY22]. **Pathway** [LD19]. **Pathways** [DBM24, LK19, LZR24, RMBM24]. **PatternCoder** [PCH09]. **Patterns** [Bol22, PCH09]. **Pedagogical** [EHBA+23, TSK12, VSK22, YB19, HAA13]. **Pedagogies** [ENC+24]. **Pedagogy** [BSS20, Ryo19, Zin15]. **Peer** [HCAT23, ILRD20, MJB+23, MAHC+22, TPQE18, LGP13]. **Peer-led** [MAHC+22]. **Peers** [BBSPK22]. **Penalties** [LFU23].

Pensarse [Vog21]. **People** [SNOT21]. **Perceived** [ZD15]. **Perception** [AAGH14, vdMHVH23]. **Perceptions** [AvdM21, Bar09, BJCS21, CMSP+19, ECF18, MDS16, ZCJR20]. **Perceptual** [CJS+17]. **Perfect** [MS11]. **Performance** [DSUP20, DJHGI19, KWB20, LY21, MTGM21, RKM20, Wag16, WZL+22, YB19, AGEL13]. **Performative** [DMBP22]. **performing** [LZT+19]. **Persistence** [BSA+23, CHP+18, FWD+24, WDK20]. **Personal** [McG12b]. **Personalization** [BSY+10]. **Perspective** [AWW15, BMB+18, LIG22, TM14, VSK22]. **Perspectives** [BDDGT14, HAGM14, IKWR22, KLS+14, MSV+23, MFA23, RB22, YZC19, TP23]. **Phase** [Shi16]. **Phenomenographic** [LZR24]. **Philosophical** [WK10]. **Physical** [ENC+24, RG19, NCLN13]. **Picture** [KWB20]. **Pilot** [EHPR+23]. **Plagiarism** [Alb20, CJS+17, KSCP22, MM12]. **Planning** [McG12a]. **Platforms** [MCK17]. **Play** [HHM19]. **Playbook** [RB24]. **Playing** [RPT+22]. **Plays** [FTD+24]. **POGIL** [HS13]. **Point** [MS19, TWH18]. **Points** [GHT+11, TM11b]. **Policy** [GEME14]. **Polymorphism** [LBK11]. **Populations** [MFM+16]. **Positive** [Hun16, Hun17]. **Positives** [WCT+24]. **Postgraduate** [SSAT24]. **Potential** [DBG+23, GK17]. **Power** [RTE21, RB24, Vog21]. **Powerful** [RvJP20]. **Practical** [O'G12]. **Practice** [CB19, EHPR+23, ENC+24, KRH+24, MR22, MS11, PE23, UR17]. **Practices** [ALHR17, KLS+14, KFME11, LKOL+24, MLA+24, PSK24, TDMN+24]. **Practitioner** [MSV+23]. **Practitioners** [Fie19]. **Pre** [EKSW11, LR11, MDS16, RP19]. **Pre-College** [EKSW11, LR11, MDS16, RP19]. **Predict** [CHP+18, LZT+19, LRH+22, Tag24]. **Predicting** [WDK20]. **Prediction** [LLKH18]. **Predictive** [CHA17]. **Predictors** [BKZL23, CKSS21]. **Preface** [FU10b]. **Preferences** [BS24]. **Preliminary** [NBTC+24]. **Preparation** [Arm11]. **Prescriptive** [Blu22]. **Present** [LSHY22]. **Presuppositions** [Ten14]. **Primary** [EHBA+23, HAGM14, IIRY17, ZQLW24]. **Principles** [DHH+15, MJB+23, MMFR20, ORS16, SNG+22]. **Prior** [Sho23]. **Privacy** [TBP21]. **Privilege** [RTE21]. **Problem** [DTT16, Kie09, LBM24, O'G12]. **Problem-Based** [DTT16, O'G12]. **Problem-Solving** [Kie09]. **Problems** [AANK14, AB24, Kie09, PE23]. **Procedural** [SSD09]. **Process** [CK09, HOC17, McG12a, Rob22]. **Processes** [RJJ10]. **Processors** [SH10]. **Procrastination** [PD22]. **Product** [ALHR17]. **Productivity** [DSU20]. **Professional** [All23, CGON24, EVM24, ET12, ECF18, FDW19, KPM18, MJB+23, PHRC21, RSPB17, SDBJ19, SSSC18, VS22, YZC19]. **Professionals** [AJNN20, BF23, JNA18]. **Professions** [LG21]. **Profiles** [KPM18]. **Program** [DSS21, EHPR+23, HM21, KRH+24, KDV22, McG12b, RSPB17, RT15, RVI09, SKM13, UFVI09, HS13]. **Programadores** [Vog21]. **Programme** [LBT20]. **Programmed** [WDCT20]. **Programmer** [MK19, YZC19]. **Programmers** [ABCD20, CG19]. **Programming** [ASG19, AvdM21, Alb20, AAGH14, AANK14, AMSBA15, AL22, AB24, dCBBOSH24, BJCS21, Bra24, BWE11, BA17, BWTS+23, BSY+10, CHA17, CK09, COK24, DSUP20, DSU20, DCW19, FKG17, Gey24, GBB+17, HSGB24, IT17, KKLL16, KMW22, KSCP22, KJH19, Köl10, KM16, KLM15, KA16, LLKH18, Lai22, LK19, LY21, LMB+22, LMH21, MRR+10, MPDS24, MMFR20, MFCLG19, MCK17, MC19, MBKS24, MS19, MJC23, NGK11, OHR22, PCH09, QL17, RKM20, RJJ10, RB22,

RPT+22, RS14, SCMR24, SMGF24, SKM13, SS13, TAL17, UR17, VCMV23, VMAG22, VVM+24, WX18, WW17, WDC15, WHS+17, Xin15, YZC19, ZQLW24, vdMHVH23, BAGM13, IT13, Sor13]. **Programs** [BBD+10, BSA+23, BS10, CMSP+19, DBG+23, McG12a, PG23, RBSS11]. **Project** [FDW19, IT17, LMGVS+16, Ric09, RMNC10, SBH+18, VGM+23, Wan11]. **Project-Based** [LMGVS+16, Ric09, RMNC10]. **Projects** [BH16, BMB+18, BBSPK22, DJGIO20, HCAT23, MSH10, Mit14, PD22, PLB+12, SH18a, SSSC18, SH18b, TBP21]. **Promising** [KFME11]. **Promote** [LR11, OHR22]. **Promoting** [KFME11, TBP21]. **Prospects** [SSAT24]. **Prototype** [RV09]. **Prototyping** [KDXB18]. **Psychometric** [PHP+22]. **Public** [BVNN22, Con24, RAS24, SYP24]. **Publications** [BXS+24]. **Purpose** [TMSA22]. **Purposeful** [KV15]. **Pyrates** [Bra24]. **Python** [Bra24, WX18].

Qualitative [AL22, KG22, RB22, SMGF24, YR15]. **Quality** [BNP11]. **Quantitative** [KLM15]. **Query** [TSV18]. **Questions** [ASG19, HAG15b, Sho23, Ten14, VVM+24].

R1 [BVNN22]. **Race** [VS22, WDC+24]. **Racism** [VS22]. **Raise** [VGM+23]. **Randomized** [DSUP20, DSU20]. **Raspado** [RMM21]. **rating** [VMAG22]. **Rationales** [LKOL+24]. **Re** [RVSW23, RB21]. **Re-Entering** [RB21]. **Re-Validating** [RVSW23]. **react** [IT13]. **Readiness** [RAS24]. **Real** [AMSBA15, BHHMG21, LMGVS+16, TBP21]. **Real-World** [TBP21, BHHMG21]. **Realist** [Pad24]. **Reasoning** [DBM24, DHH+15]. **Recognised** [DM23]. **Recommendation** [VMAG22]. **Reconfigurable** [SH10]. **Recruiting** [CMSP20, PSK24]. **Recursion** [HEE+19]. **RecurTutor** [HEE+19]. **Redesign** [TSK12]. **Redesigning** [KKLL16]. **Reference** [MS19, MM12]. **Reference-Point** [MS19]. **Reflect** [PG23]. **Reflections** [ET12, Mal23]. **Reform** [GM11]. **Regarding** [TABA12]. **Regression** [LFU23]. **Regular** [GML+23]. **Regulation** [FPSS23, LMB+22, SMGF24]. **Rehabilitation** [NGK11]. **Related** [WDK20]. **Relation** [Ten23]. **Relationship** [FPSS23, MVR+24]. **Relationships** [RHSS20, SS23]. **Relevant** [KS14]. **Remotely** [MC19]. **Replications** [HSI+19]. **Reporting** [BVNN22, HCSAz22]. **Reports** [KG22]. **required** [IT13]. **Research** [BVNN22, Bar09, DCW19, DZS22, EHPR+23, GM14, GbGG+23, HSI+19, HB15, HCSAz22, HOC17, IT17, JK20, KCB+23, KFME11, LMGVS+16, MT23, MAK12, PM09, SSSC18, SF19, SS23, TS20, TP23, TM11b, Ten14, TM22]. **Research-Practice** [EHPR+23]. **Researcher** [Ten23]. **Researcher-Theory** [Ten23]. **Researchers** [MW22]. **Resources** [Ebl24, Rit09]. **Response** [LLF22]. **Responsible** [MAHC+22, RMM21]. **Responsive** [RG19, RB24]. **Restart** [BSCH14]. **Results** [AJNN20, JNA18]. **Resurgence** [BSCH14]. **Retaining** [FWD+24, HM21]. **Retention** [DBG+23]. **Reusing** [ABCD20]. **Review** [Alb20, BXS+24, DZS22, Ebl24, EVM24, GbGG+23, HCSAz22, HOC17, ILRD20, KJH19, LSTA22, LMH21, MBKS24, MJC23, NJK19, Pad24, PLF22, PCC+24, PO20, QL17, Sha22, SKM13, TPQE18, YBV23, YBO+24]. **reviews** [HAA13]. **Rhine** [KMB+15]. **Rigorous** [HAG15b]. **Robot** [MC19]. **Robotics** [BS24, LR11, MCK17, WHS+17]. **Robots** [AH24, McG12b]. **Robust** [CHU+09, LZT+19, TCK21]. **Roland** [HAG15a]. **Role** [FTD+24, OWK21, PGJS17, RBSS11, SNG+22, SCMR24, TP23, IT13]. **Routes** [RMBM24]. **Rubric** [WCPF20]. **Rules**

[DSS21]. **Rural** [TMSA22, ZQLW24]. **Russia** [KS14].

Sampler [JK20]. **Scaffolding** [RT15]. **Scalable** [RWK+15, SH18a]. **Scale** [BBF+21, BA17, RVSW23, WCT+24]. **Scenario** [AAGH14]. **Scenario-Based** [AAGH14]. **Scholarship** [KRH+24, TM10]. **School** [Ber23, BSS20, CKSS21, DLM11, DBR+20, EHPR+23, EHBA+23, GM11, IIRY17, JNA18, KLS+14, KS14, KO22b, MFM+16, MVR+24, MR22, MSH10, NBTC+24, OPC17, RVSW23, RS14, SMM+24, TABA12, WW17, WDK20, WSP+11, ZQLW24, ZNF+20, ZCJR20, ZJWF11]. **Schools** [BDDGT14, BAR14, BLM+14, BSCH14, FEC17, Hub12, HAGM14, HAG15b, KV15, MSV+23, Par23, RAS24, RVAN15, RWK+15, SYP24, TM14, TAL17]. **Science** [AZK+20, All23, Arm11, BVNN22, BBD+10, BB10, BDDGT14, BAR14, BSA+23, BHHMG21, BBG12, Ber23, Blu22, BJCS21, BSP24, BWE11, BBF+21, BSCH14, BXS+24, BCD10, BSS20, CKSS21, CMSP+19, CMSP20, CHP+18, DJGIO20, DBR+20, EBC+21, EHPR+23, EHBA+23, FPSS22, GES14, GM14, GM11, GMM17, HM22, HHM19, Hub12, HAGM14, HAG15b, IIRY17, IKWR22, JMN+22, JK20, KWB20, KS14, KCB+23, KFME11, KMB+15, LK19, LLF22, LKOL+24, LZRO21, LSHY22, LD19, MFM+16, MHP20, MPDS24, MRG17, MMFR20, MLA+24, MW18, MR22, MSV+23, Men24, MFH24, NAG+23, NBTC+24, PLF22, PGJS17, Par23, Pet19, PS21, RVAN15, RSPB17, RWK+15, RWS+24, REB23, RHSS20, RV09, Ryo19, RB24, SNG+22, SA20, TK16, TB16, VMFG17, VFFT16, VSK22, Wag16, WK10, WW17, WDK20, YB19, YBV23, YBV24, ZNF+20]. **Science** [ZCJR20, ZJWF11, Zin15, AGEL13, Gri13, LGP13]. **Science-** [WDK20]. **Sciences** [RCS11]. **Scientometric** [SNOT21]. **Scope** [GGH+10]. **Scratch** [AMSBA15, FKG17, MRR+10, UCK+10]. **Script** [Mod21]. **Script-based** [Mod21]. **SCS1** [VVM+24]. **Seamless** [Kar09]. **Searching** [IDC+19]. **Second** [KG18, MT23]. **Secondary** [Arm11, BDDGT14, BLM+14, Ber23, EHPR+23, Hub12, HAGM14, IIRY17, Kie09, MCK17, RVSW23, RvJP20, YMZ+14]. **Section** [LRS21, SF19]. **Sector** [All23]. **Secure** [TK16]. **Security** [BF23, LSSM19, TK16, YVQ+10, RC13]. **Seeing** [MRG17]. **seeking** [COK24]. **Select** [ZJWF11]. **Self** [BVNN22, CMSP+19, FPSS23, Lar16, LY21, LMB+22, MBE+16, RAS24, RCS11, SCMR24, SMGF24, VMFG17, ZQLW24, ZNF+20, IT13]. **Self-assessed** [Lar16]. **Self-Directed** [MBE+16]. **self-direction** [IT13]. **Self-Efficacy** [RAS24, RCS11, SCMR24, ZQLW24, CMSP+19, LY21, ZNF+20]. **Self-evaluation** [LY21]. **Self-Explain** [VMFG17]. **Self-Regulation** [FPSS23, LMB+22, SMGF24]. **Self-study** [BVNN22]. **Sense** [RMBM24]. **Serious** [Bra24, VGRM19, VGM+23]. **Service** [YBV23, YBV24]. **Serving** [BSP24, GHT+11, MSV+23]. **Setbacks** [LD19]. **Setting** [FDW19, GGH+10, VS22]. **Setup** [AvdM21]. **Shape** [RMBM24, WDC+24]. **Shifting** [FPSS22]. **Shifts** [LZRO21]. **Short** [LK19, LBT20]. **Short-Term** [LK19, LBT20]. **Should** [JNA18, RP19]. **Show** [RB24]. **Similarity** [NJK19]. **Simulation** [RWK+15]. **Simulations** [EKSW11]. **Singleton** [She13]. **Situating** [TBB24]. **Situation** [RVAN15]. **Situations** [HM22]. **sized** [She13]. **Sketch** [BL14]. **Sketch-Based** [BL14]. **Skill** [GVA22, Lar16]. **Skills** [Akd23, AJNN20, CGON24, ECF18, HSGB24, JNA18, MGM+23, Tag24, YR15]. **Small** [BTF+19, RvJP20, She13]. **Smarter** [GML+23]. **Smartphones** [RT15].

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