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#FluxFlow [ZCW+14].

(X, Y) [BBD+11]. + [CMP09, FWG09, QWC+09, WC11, ZZG+12]. 1 [SZB+09]. 1.5 [SWW+15]. 2 [AL06, AJDL08, AHKMF11, ARH+15, AJ19, BBiA09, BHSH15, CKW+12, DNP07, DHM13b, DMC15, GRT17, GSS+19, GJR+14, JDL09, LKJ+05, LWS+17, LRN96, LJL04, LKR+18, LLCD11, LCS+12, LFR03, MSA17, NHYY18, PQMCR17, PGT+08, PMW13, QCT13, RKG+11, RF11, SZB+09, SHM+07, SMN12, SWCR15, SS13b, TWHS05, TKAM06, TIK15, WWYS04, WLL+05, WTL+09, Won16, YHH+19, YEII12, ZWZ+13, ZWR14, vWN04]. 2.5 [APV+15, YSL+13, YJL+15]. 3 [ARH+15, AHR+11, AVP19, BSB+18, BGCS17, BF01, BIAI17, BTB10, BTHD11, BC12, CWZ+14, CWL12, CPW+18, ChLYL09, CC08, CZN+11, CZZ+19, CMK15, CCM11, DDW14, DHL09, DMR04, DBW11, DRHK07, ERL+13, ET08, FW08, FYTL19, FCL09, GCL+15, GW13, GRT17, GCL+18, GIS03, GJR+14, GPP+16, HDBC15, HE06, HLL97, HLRC+12, HM10, HLYL18, IFP97, IFM14, JSG03, JK16, JNC+15, JDL09, JBS06, JCWD14, KRW19, KSG+16, KZL07, KHS+19, KCA16, KLG+16, KCK+19a, KYT+18, KKKW05, LYY+16a, LS07a, LH03, LDH09, LKL+15, LYL19, LKR+18, LZZ+19, LDN11, LJZ12, LL05, LY06, LB17, LGS12, LODI16, LSM03, MS08, MWSJ14,

ZHZ15]. **Anisotropically** [LKC09a]. **Annealing** [KH01]. **Anniversary** [KHE09]. **Annotation** [BMW17, GS06, NHYY18, PWHK16, ZGB+17]. **Annotations** [LCL+19, YHH+19, ZGB+17]. **Annual** [Ano01a, Ano03b, Ano04a, Ano09a, Ano10a, Ano11a, Ano12a, Ano13a, Ano14a]. **Anomalous** [CSL+16, XXM19a, ZCW+14]. **Anomaly** [CLZ+18, XXM+19b]. **Anonymizing** [WCC+18]. **Anthropomorphic** [TAK+05]. **Anti** [CMFL16, SF19]. **Anti-Aliased** [SF19]. **Anti-Aliasing** [CMFL16]. **Antialiasing** [MMS+98, MRT00, SPW02, VT08]. **Anticipation** [MZH+08]. **Any** [BWC04]. **Aorta** [RHR+09]. **Aortic** [BSR+14]. **Apart** [FFB18]. **Apertures** [BRNB19]. **Appearance** [JWD+14, MSM+11, SHM10, SLB04, Tay02, VBC+16, Zho16, ZKM18]. **Appearance-Based** [MSM+11]. **Application** [ACR+19, BTB+04, BGM+17, DMR04, GGA+11, HLRC+12, HFG+12, KKPS08, LLBS17, LKC09b, LRF+11, MTB17, OMD+12, PFP+11, PM08, PNML08, PPM+11, STS10, SD11, SGM08, YNYH06, ZWA+13]. **Application-Driven** [ACR+19]. **Applications** [AB01, BI12, BSO+12, BJK+16, CCSK19, COCSD03, CSM07, FDFR10, GXH+13, GGTH07, GMM05, Gué01, GGLQ19, HQ13, Hub95, ISC07, JKJTM06, JBS06, Kei00, LLT04, LL04, MGPH06, MK13c, NTS11, QMK+06, RF11, RSD+13, SJL+18a, SLA+09, SXM17, SWC+08, SK13, Ste98, WGS07b, WDC08, XXM19a, YL16, YML+17, YXM+15]. **Applied** [Kin10, SCT06, dLVvL06, vAPP+11]. **Applying** [CLB13, HSTD18, SKK+14, TFO09]. **Approach** [ADWK+17, AAGS19, BMTD05, BMA+19, BJK+16, BW01, BMW17, CBL07, CCB11, CHW+18, CGJM19, CGH+19, CXM19, CSWP18, DC17, DGW11, DBB10, DSC+08, DCKY02, FM12a, FHG+09, FBLS05, GNBP11, GIK+07, GNP+06, GBHP08, HBJP12, HM95, HBW06, HZM13, HNR+06, HZM+16, KHA12, KLYE13, KS02, KTE15, KGZ+12, KY06, KCM18, LBS13, LVRH07, LAK+11, LT18, LXC+17, LLZ+16, LSPW12, MY96, MRH+10, MHR+11, MB19a, NR18, NSL19, OJ15, OHH06, PBN+13, PSPM15, PSF09, PGL+12, PSR17, RKK16, RE14, RFLL18, STS06, SS08, SS16, SAS16, SKU+12, SPB08, SC15, SA19, SSBC19, TMWS13, TWSS16, TLM05, VFR13, WAM+19, WM08, WGYS18, WFC+18, WCC+18, WASQ18, WGSY19, WQZ+18, WBH04, XCH+14, XZM17, YHH+19, ZHF12, ZHLB13, ZGM18, vdEHBV16, WBD14]. **Approaches** [CK05a, FHKM17, FTES13, HB13, JAAL18, LD11b, MKT+18]. **Approaching** [WAWS18]. **Approximate** [HMTR19, HQ07, JWD+14, KMDZ10, RMCW19, TFO09, Wan11, Wil12]. **Approximated** [PLvdM+17]. **Approximating** [HTF97, JSG03]. **Approximation** [BYA15, CGL+17, GGZ+18, LRZM11, PA06, RKSH11, SCOIT05, WXC+08]. **Approximations** [GSG96, HJW99a, HJW99b, KH01, LDSM17, WBH04]. **AR/VR** [XGS+19]. **ARbis** [IHD+18]. **Arbitrarily** [PHF07]. **Arbitrary** [BWW+12, HB03, KLS+18, LLLF08, LTWH08, LBG+08, LJWH08, LHZ+04, NPPZ12, RNK+15, RE14, VPB+11, WDC08, YXSH13, ZC06]. **Architectural** [SYYC11]. **Architecture** [ARB07, BWW+12, BGM+07, BGM+08, CGC+11, CFHH09, FH07, HKC+12, LLW15, MB03, MGPH06, MFS+09, NKP+15, PTMB09, SRHH16, SS95, SLF+12, Wal12, ZPS04, LLLN+14]. **Architectures** [HWZ+19, HQQ12, RPSC99, SHC+09, SvLF10]. **Area** [CDK04, LDSM17, LDN11, NSZ+17, RSFH14, SNM16, TGS11, Wil12, XHL18, ZSG+13]. **Area-Based** [LDN11]. **Area-Preservation** [ZSG+13].

CZZ+19, CFHH09, CCM11, DDW14, DHL09, DMR04, DBW11, DRHK07, DNP07, DHM13b, DMC15, ERL+13, ET08, FW08, FYTL19, FCL09, GCL+15, GRT17, GSCI15, GCL+18, GIS03, GSS+19, GJR+14, GPP+16, HDBC15, HE06, HLL97, HLRC+12, HM10, HLYL18, IFP97, INCB18, IFM14, JSG03, JK16, JNC+15, JDL09, JBS06, JCWD14, KRW19, KSG+16, KZL07, KHS+19, KCA16, KLG+16, KGP+13, KCK+19a, KYT+18, KKKW05, LYY+16a, LKJ+05, LS07a, LWS+17, LRN96, LH03, LDH09, LKL+15, LHC16, LYL19, LJL04, LKR+18, LZZ+19, LG13, LDN11, LJZ12, LL05, LY06, LB17, LLCD11]. **D** [LCS+12, LGS12, LFR03, LODI16, LSM03, MS08, MWSJ14, MW99, MCHM10, MAST16, MCG12, MSA17, MH10, MJK06, MDS16, MES+11, MWC+12, NWHWD16, NB95, NQX+05, NHYY18, OHWS13, OA11, dJOBNM17, OHH06, PDRK19, PQMCR17, PBO+14, PZLZ17, PK08, PLW11, PLW12, PJ03, PGT+08, PZ07, PH07, PMW13, PUNI11, PMT+19, PGI+17, QCT13, QT96, QY07, QWC+09, RSBB17, RHZN11, RKG+11, RT12, RKZZ19, RF11, SW12, SZB+09, SWB+00, SBV+11, SHM+07, Sel15, SKYS14, SPP+14, SPB96, SWW+15, SMN12, SXX+19, SW97, SWCR15, SRW+16, SGJM18, SKW+11, SBW17, SKH+19, SS13b, TKTN09, TCL+13, TNT17, TMWS13, TC09b, TWHS05, TZL+12, TKAM06, TLC+10, VCP08, VAB12, VW12, Vas16, WWYS04, WLL+05, WH09, WM13a, WWC+14, WM18, WTL+09, WQZ+18, WB08, WSE07, WFG+19, WXY17, WCB+12, Won16, WLDW11, XCZ+19b, XFZ+19, XLZ19c, YOS13]. **D** [YPRI17, YFC+19, YLSL11, YSL+13, YJL+15, YL95, YHH+19, YSI+10, YEII12, YEII16, ZTP05, ZH07, ZWZ+13, ZWR14, ZTZ17, ZGH+18, ZPP05, Zho16, ZCFL15, vPBB+10, vPBB+11, vWN04, vLBB16, zBBKN14]. **D-NURBS** [QT96]. **D-Snake** [LG13]. **D** [**?**]to-Leimkuhler:2018:PRT. **D.O.F.** [TAK+05]. **D3** [HA18]. **DAG** [GK07, IG19]. **Damage** [HTP+08]. **Damping** [SRKL19]. **Dance** [FXG12]. **Daniel** [Ano11d]. **Dark** [KHA12]. **Dashboard** [BSKR19]. **Dashboards** [McK09, SCB+19]. **Data** [AMM+08, AJ17, ACS+18, AAMG12, AHH+14, AZL+19, ARH+15, ARL+17, AA11, AAH+13, AAFW17, Ano09b, ASMP17, ASE16, AJ19, AHL+13, BSH+16, BPP+16, BE18, BEW95, BSS+19, BKL+11, BWK+13, BIAI17, BAAK+13, BGB15, BPL+19, BDSW13, BBP08, BBB+19, BDD+16, BBB+12, BWT+11, BG06, BGKG06, BAW16, CDC+07, CLG16, CLZ+18, CWT+08, CDR+18, CBL07, CZC+15, CYW+16, CXR18, CHW+18, CM16, CXM19, CLC+15, CM02, CMPS97, CvW11, CMN13, CML+12, CMSW04, CSC07, CL11, CJTM05, CWRY06, CMP14, DC17, DSKA19, DFD+14, DR08, DS16b, EGG+12, EM06, EMdSP+15, EBRI09, FPB17, FKLT10, FPV+13, FM12a, FAW10, FMH08, FSE12, FWR00, FIBK17, FMST96, FZC+07, GPL+11, GHGM06, GHA+08, GBWI17, GABJ08, GS14, GIK+07, GWBO12, GK95, GSG96, GW11, GWP+16, Guo09, GZL+14, GZ14, GPP+16, GXZ+18, GJG+19, HLRS+08, HBJP12, HTL13]. **Data** [HEFR18, HDSC19, HR07b, HHM14, HKB+19, HB13, HHH16, Hol06, HM10, HCMTH15, HZM13, HZH14, HZL+19, HZM+16, HHG14, HEF+14, IWR+18, IML13, IYIK04, JFSK16, JEG12, JER16, JBS08, JYC+10, JA18, JhR10, JH09, JFY16, JY17, KSH03, KNKH19, KPHH12, KGS+08, KERC09, KLM+08, KMDH11, KH13, Kei02, KHDL07, KKSS13, KLC08, KWP01, KLK+09, KSL+17, KJW+18, KRH18, KOJL+14, KLG+16, KM96, KHPS07, KGP+13, KBH06, KSDD14, KPB14, KS02, KH01, KGJ09, KGG+12, KGZ+12, KW13, KHH+16, KXW+18, LBG+16, LSSB12, LBS13, LSJ+15, LCC+17, LWG05, LHD18,

LBW19, LPF+19, LWS97, LS02, LS09, LSS13, LKS13a, LT16, LSPS10, LSS+11, LFP07, LFLH07, LFH08, LPLT11, LI06, LLB+06, LLRR08, LLCD11, LSS09, LS16, LMW+17, LXR19, LPK+16, LPCC17, LODI16, DSC+16, LGLR14, LMC02, LJH+18, MCP+06, MS08, MD12, MV06, MMH+13, MKH12, MGKH09, MHD+18].
Data [MMYK06, MGB+19, MMDP10, MBH+12, MLKS18, ME11b, MCS+08, MFS+09, MNKT01, MVN+19, NN11a, NN11b, NKHC08, NR18, NGCL19, NASK18, OJ15, ODH+07, OHWS13, OKB+19, PSSC17, PFP+11, PSPM15, PBO+14, PCY08, PMN+14, PLS+14, PGT+08, PBE19, PSN10, PH07, PHJ+10, PWHK16, PW12, PSM07, PFK+08, POM+09, RESC16, RBS+18, RGK+13, RML12, RLA+13, Rob98, RP12, RL08, RZNS04, RGC+14, RB18, RSS14, SMDS14, SKBE17, SSRE18, SE17, SSEW19, STS06, SXM17, SFBP09, SWR+13, SKS12, SGS+19, SFP+19, SR17, SK16b, STS07, SH10, SSH14, SHH11, SS06b, SBSG06, SS16, SvdBLM11, SW13, SCL+12, SLC+19, SS19, SK00, SDES19, SJL+18b, SGAS16, STH03, SSL+12, TJW+17, THM15, TIW+19, TAE+11, TTR10, TdJ14, TdJ15, TSB+05, TBHC16, TCM10, TSAA12, TS07, TFH11, TLLH12, TSH+14, TKBH17, TLM05, VH16].
Data [VvWvdL06, VJC09, WBJ16, WDC+18, WLJ+12, WYM08, WM08, WSPVJ11, WWLM11, WLL+12, WZvdW13, WYL+14, WX17, WOO17, WM18, WCC+18, WWW+19, WLF+19, WHLS19, WRF+11, WK06, WBP07, WZ08, WKZL04, WSLL12, Wil18, WGS+13, WJD17, WMS98, WFS+19, WMGE12, WS09, WXC+08, WXZ+16, WLS+18, XNT11, XXM+19b, YEB18, YHW+07, YLX+12, YL95, YS17, YXG+10, YRWG13, ZZD14, ZCL08, ZLD+14, ZMZM15, ZGB+17, ZWC+18, ZXM10, ZG06, ZGHG11, ZMT+19, ZGM18, ZD18, dLVvL06, dOL03, tCMR07, tCMR08, vTRvdM97, vLFR17, CJR07, FHL10, HSKIH07, THT19, WOCH09, WBD14].
Data-Driven [ARL+17, CDR+18, CXM19, HZL+19, KSL+17, KGZ+12, LCC+17, LFP07, MD12, PLS+14, SSH14, ZLD+14, ZGM18, tCMR08].
Data-Flow [SWR+13]. **Data-Parallel** [ZGHG11]. **Data-Rich** [GBWI17].
Database [CWZ+14, CTM+13, MSA17].
Databases [STH02]. **DataClips** [ARL+17].
Dataflow [SRHH16, WSW+18]. **Dataset** [MHG10, WDSC07]. **Datasets** [ALM11, BRT12, BTC10, FSW09, GGL+14a, Har16, HE99, JBH+09, LBS14, LKS13b, MZFM98, NJB07, PLS+14, PSR17, PHF07, SZB+09, SYM14, SGM08, WFW+17, XYC+18, ZCCB13].
Dawn [Bai13].
Daylighting [SYYC11]. **DCB** [CLCQ12].
DCB-Spline [CLCQ12]. **DCT** [YL95].
DCT-Based [YL95]. **De-Biasing** [CH17].
Deadeye [KK19]. **Dealing** [GNCM+16].
Debugging [SGB+19, WTL+09]. **Decadal** [KBL19]. **Decade** [KBB+18, LMW+17].
Decal [RASS17, RSA+19]. **Decal-Lenses** [RSA+19]. **Decal-Maps** [RASS17]. **Decals** [RASS17]. **Decider** [AJ19]. **Decimation** [CE01]. **Decision** [BTC13, DBD18, KDX+12, KWS+14, KHZR18, MLMP18, PSTW+17, SOL+16, ZCD19].
DecisionFlow [GS14]. **Decisions** [UKW19].
Declarative [HB10, JVDF19, SRHH16, SRM19].
Decomposition [BNPB13a, BNPB13b, BPB14, CML+07, GMD+16, GH95, HHG14, HPNT18, KL96, LBD13, LGQ09, PPL+10, RNL09, Rob98, RF11, SS08, YBW+19, ZGH+18, ZCFL15].
Decompositions [BRP19, CMLZ08, ER97, SZ12, Szy13].
Decompressible [KXW+18].
Deconstraining [YN03]. **Decorating** [ZDW+05]. **Decoration** [BKRE19].
Decoupling [BB09]. **Dedicated** [GUO00].
Deep [BTJ+13, CCJ+19, GL17, HKPC19,

GDJ+13, HKBR+14, HHO+17, HA17, HKR+08, HA06b, HB10, HLRC+12, HZM13, HLB+18, JHKH13, aKGS11, KW14, KAM+08, KSL+17, KS14b, KBVH17, KHLM17, KOBH19, KPR+14, KOK+19, LJX+10, LTM18, LWS+17, LIRC12, LIM+12, LCS+12, LD11b, LLY06, MLMF12, ME18, MJW+13, MRSS+12, MMAM14, MKT+18, MPOW17, MMMY97, MWN+19, Mun09, OM09, OK11, PFW12, PWHK16, PB16, QT96, RHY14, RHR16, RKG+18, SKK06, SVAC12, SFB+12, SHS11a, SNHS13, SMM12, SYYC11, SOL+16, SD12, SSL+12, SNR14, Sza18, TM12, TLD+12, TSW+07, WGM+08, WZK12, WASQ18, WKD19, WQ07, YCLJ12, Zag96, ZHT07, ZM13, tCMR07, vLFR17, WBD14]. **Design-Sheet** [RHR16]. **Designing** [Chi16, EMRY02, HN13, Kei00, KKL+16, dJOBNM17, PHV+18, SKK+14, TKBH17, WK06, ZWC+16]. **Designs** [HFMC12, OAH14, RHR16, WLF+19]. **Desktop** [JD13, LvL12, PFK+08, TMM+13, TBR+12]. **Destination** [AAFW17, GZ14, YDJ+19, ZFL17, ZMT+19]. **Detail** [AWHS16, BHSH15, CMP09, GLX17, HSH10, HYZ+12, KCJ+10, MB01, NM13, NC07, WGS07a, WY19a, XESV97, Zhu05, ZBDS12, vdEvW14, DMS+08]. **Detail-Preserving** [GLX17, HYZ+12]. **Detailed** [KLCK17, SSH14, ySKK07]. **Detailing** [YYT16]. **Details** [BBD06, LBS+19, NDS10, SA19]. **Details-First** [LBS+19]. **Details-on-Demand** [SA19]. **Detecting** [AG17, KSDD14, SXX+19, TN13, WBDS11]. **Detection** [BW04, BDJ14, CLZ+18, CCW+09, CRT04, CS08, FS19, GLvP+12, GSM+14, GSL+17, GRVE07, HLRS+08, HQK06, Hub95, JWS04, JPLŠ16, KHS+18, KGS98, KMT14, KHM+98, LWZ+16, LZH+13, MBT07, MRSS+13, MJK06, MTS07, OSBM14, PLW11, PML97, SBJ+10, TCYM09, TN14, WRM+10, WWC+14, WX17, WSYM17, WTB+19, WS01, Won16, XXM19a, XXM+19b, ZK07, ZK12, ZK14a, ZLK+18, ZBB+06, JQD+08]. **Detector** [BW03, DNP07]. **Deterministic** [BMA+19]. **Developable** [TC09a, Wan08]. **Developing** [BW11, KFS+19, NTT+19]. **Development** [KMSB14, LKK17, LFA+16, MYI13, TAK+05]. **Device** [EPS+15]. **Devices** [BJM07, BMWW18, DFG+14, HTP+08, KPR+15, LS07a, LHD18, RBDG15, RJG17, SOS+17, YC14, YLC+19]. **DIA2** [MEV+14]. **Diabetes** [ZCD19]. **Diagnosis** [BGP+11, KHZR18, LXL+18, MSSD+08, OIR+17, SSMG13, WGZ+19, ZWM+19]. **Diagnostics** [XMRC17]. **Diagram** [CdOKRV09, YBZW14]. **Diagrammatic** [JhR10]. **Diagramming** [LFW+19]. **Diagrams** [BTC10, BKH+11, CLB+16, CRB+05, JRHT14, KLMA10, MPWG12, RD10, RZP12, RSFH14, SSKB14, SAS16, SZHR11, SRHZ11, VCP08, Wil12]. **Dialogue** [PMvWC05]. **Diamond** [WD09]. **Dice** [EDF08]. **Dichoptic** [KK19]. **Dichromats** [CCB11, KOF08, SMO+13]. **DICON** [CGSQ11]. **Diderot** [KCS+16]. **DiffAni** [RM13]. **Difference** [RM13, Sza18, WCJ06, YC14]. **Differences** [TSD09]. **Different** [BC18b, FTES13, GJZ+12, HOT98, SLW+10, TAL+07, YL18]. **Differential** [KHW+09]. **Difficulties** [HAS11]. **Diffraction** [RSR+18]. **Diffuse** [NSS14, SVGR16]. **Diffusion** [CLS+12, CYZ+09, DPR00, FT09, GWK12, GSZ+13, GKL+16, HM10, HQ13, HLD+08, KLLR07, KWH00, KW06, PT17, STS07, STS10, WW07, WDC08, WLY+14, ZDL03, ZSL+16, ZDZ18, ZHL+09, vAPP+11]. **Digital** [AB06, DiV15, JSG03, KSI+96, MBW+07, PMCS11, SCT06, SE18, ZSTR07]. **Dimension** [BWC04, DWF+19, GXY12, KW10, STM17, SMT13, WCR+18, YRWG13]. **Dimensional** [ALM11, ADP02, BSL+14, CCAL12,

DAW13, EHS13, GPL+11, GBPW10, GS14, GNP+06, HEWK03, HHM14, HNR+06, HRD+19, IHR01, JDL12, KRHH11, KPB14, LMZ+14, LT16, LMW+17, MBS+04, NM13, NE04, OHJ+11, SS06b, SLB04, TAE+11, TFH11, TLLH12, TKBH17, TLM05, WSPVJ11, WM13a, WM18, WAG06, WXC+08, XYC+18, YRWG13, ZWC+18, ZLC+19, FZC+07, GNPH07, LLRR08, LPK+16, ZWR14]. **Dimensionality** [JJ09, KC04, SZS+17, SDMT16, WFC+18]. **Dimensions** [LBGV13, TFH11, YHW+07]. **Diminishable** [AIS18]. **Diminished** [KSY16, STB18]. **DimpVis** [KC14]. **DimReader** [FGS19]. **Dinosaur** [NTT+19]. **Dipoles** [GBM+12]. **Direct** [AWC10, ACTM12, BTT09, BMWM06, BKW08, CR08, CWM+09a, CCB11, CWC+06, DWB+06, FDPH17, FE17, GPC+17, GKK+12, HLY10, HXF+15, JKRY12, KH19, KWP01, KWH00, KC14, KJL+12, LR11, LLY06, MCK12, Max95a, OKB+19, RE01a, SE17, SF14, Sel15, WQ07, WKI+17, YCZ+16, YSI+10, ZWM13]. **Direct-to-Indirect** [ACTM12]. **Direct-Touch** [YSI+10]. **Directable** [JFBB10]. **Directed** [CHK04, DKM06a, DRMM13, MKT+18]. **Directing** [PvdBC+11]. **Directional** [SHH11, WWYS04, WC13, ZHZ15]. **Directionally** [AM13]. **Directionally-Varying** [AM13]. **Directivity** [MAKM14]. **Directly** [HBM+13]. **Directness** [BIRW19]. **Dirichlet** [HLG+14]. **Disambiguating** [HSL19, SC15]. **Disambiguation** [SWY+17]. **Discerning** [LZZ+19]. **Disciplines** [GJZ+12]. **Discontinuities** [LT10]. **Discontinuous** [SCKR08]. **Discourse** [ASW12, LSB+16, ZCCB12]. **Discovering** [CYW+16, TWC+18]. **Discovery** [BVV+19, DCCW08, Eic00, IDA+14, PLS+14, SS06b]. **Discrete** [AT05, AHK+17, AJ97, CS08, EDvW19, HKKS18, IHR01, JKLG08, KCOY03, LS13b, LLT04, LCS06, PLK+06, RS12, SvdBLM11, SN97, VCP08, Zag96]. **Discretization** [EJR+14, KDBB17]. **discriminable** [GLS17]. **Discriminant** [ZPP05]. **Discriminative** [LZZ+19, MGMP18]. **Discussion** [SRW+16]. **Disease** [BGP+11, GNDV+18, MSSD+08, OIR+17, TBB+07]. **Disentanglement** [NOB16]. **Disk** [LLLF08, YXSH13]. **Disney** [Min13]. **Disocclusion** [DZMQ16]. **Disparity** [WZC+15]. **Displacement** [AYRW09]. **Displacements** [KMDZ10, WCB+12]. **Display** [BS02, BC18b, CK16, CM16, CDK+17, DK11b, DTT+17, ETO+10, GMS19, Gor02, GPK14, HIH+18, IFP+12, JH13, JRHT14, KKKT18, KBK11, KFL+15, KML96, LSJ+15, LDH09, LDN11, LHC10, MYI13, MBZB12, MIO+15, NHN07, dJOBNM17, ORC07, OHH06, PKS+08, PGRS13, RWBF18, RWF19, RLM10, Sim07, SvLF10, SZH97, SBHW11, TKTN09, TIS16, VB18, WZW+05, WB08, WPSH06, XGS+19, YNYH06, YHW+07, YHLJ08, ZHF+19]. **Displaying** [JS98]. **Displays** [ACR+19, AHKMF11, AT16, BSE+17, BI12, BSM06, BJM07, BSEN18, BC18a, BMY05, CAN14, DVCD07, DFG+14, DJK+06, GIMS18, HN13, HRISI15, IK15, IDAK15, IAIK16, IHS17, JH13, JWS04, KPBG13, KBB+12, Kra16, KOK+19, LCR16, LKD19, LH16, LSK+18, MS04, MT05, MMCE09, OTKS15, PIN+15, PBC17, PGI+17, QPNK18, RHZN11, RM17, SLGM09, SBK+11, SFC+07, TKAM06, VH16, WRHR19, XLZ+19a, XLZ+19b, YBW+19, ZFSL19]. **Dissemination** [BKW16]. **Dissertation** [Meh17]. **Dissimilar** [HGWW18, ZCJH12]. **Dissimilarity** [BDD+16]. **Dissipation** [KLLR07]. **Distance** [BA05, BKS01, CZN+11, DBW11, GMS19, Gué01, GDN+07, HLD+08, JBS06, KBB+12, KHSS14, KL14a, KW11, KDBB17, KMH11, LPKK12, LMZ+14, NDS10, SFH06, SK00, YXM+15].

[ATLF06, DWF+19, HKG07, HF06, KLM04, KM96, LLLF08, LML+18, ME11b, SJW07, TFH11, WLLC15, YLSL11, YFZ+18]. **Dual-Domain** [YLSL11]. **Dual-Matrix** [WLLC15]. **Dual-Mesh** [ME11b]. **Dual-Representation** [HF06]. **Dual-Space** [KLM04]. **Ductile** [FHG+09]. **Duet** [LBW19]. **Duplication** [HBF08]. **Duration** [MVN+19]. **During** [DC17, JBS+18, KBGE11]. **DVV** [KOJC12]. **Dwell** [XLZ+19a, XLZ+19b]. **Dwell-Free** [XLZ+19a, XLZ+19b]. **DXR** [SLC+19]. **Dye** [JEH02]. **Dynallax** [PKS+08]. **Dynamic** [AHSS14, AL11, APP11, BFP14, BSS+13, BDY06, BMWW18, BFL06, BVB+11, CWL12, CS08, DVP+18, DL12, FvdPT97, FBL+18, FM06, FT08, FTES13, GJG+15, GPK14, GGPPS13, Gué01, GN12, HL02, HSS11, HSCW13, HBW14, HWL+11, HQ04, HTZ+11, HEF+14, JS06, JFY16, JWL05, KJL+12, KLS+18, KW13, LRP97, LPF+19, LBH18, MB18a, MQV00, MKH12, MZH+08, MKW07, MTB17, NWI17, NSE+12, NKHC08, OBKP18, OBLN17, PCY08, PKS+08, PH08, QMV98, RD05, RGFLL14, RP12, RG95, RM13, RSR+18, SST+17, SAM+05, SWW+15, SAC+08, SG99, SLW+10, Sun03, TJW+17, TF06, TSH+14, VS11, VPF15, VBW16, WLB+14, WMWL11, WLMP19, WFG+19, WB05, YNCP06, ZK17, ZPS04, ZDM13, ZGH+18, ZX18, ZDH+19, vdEHBvW14, vdEHBV16, FHL10, LCM07]. **Dynamically** [BS16, LYY+16a, SA19]. **Dynamics** [BRNB19, BLG+16, Fau99, GRVE07, GBM+12, KBE+18, KBE09, LVRH07, OBLN17, SJJ+17, SWL+14a, SGPR18, YESK95, ZBMY14, vLBR+16].

E-SD [HRN+03]. **E-Transactions** [XCH+14]. **Early** [KYK11, Zag96]. **Earth** [SPO+12]. **Earthquake** [LLQ+17]. **Easier** [OSSK12]. **Echoes** [AGN+19]. **Ecosystem** [McK09]. **Ecosystems** [BCH+13]. **Eddy** [WPS+16]. **Edge** [BRH+17, BYA15, BJB+12, BSL+14, BVB+11, CZQ+08, DSC+08, DSS+09, DRMM13, EHP+11, Hol06, HM10, KEJK19, LLCM12, OKSK16, SHH11, SMNR16, SZW+19, TCM06, YSZ04]. **Edge-Aware** [BYA15]. **Edge-Based** [KEJK19]. **Edge-Bundling** [LLCM12]. **Edgebreaker** [Ros99]. **Edges** [AFRS05, GHL15, OKSK16, SPEB18, Wan06, XRP+12]. **Edit** [BDFM17, XNT11]. **Editable** [GXH+13]. **Editing** [ATLF06, BKW08, CML+07, HLCB18, LZH+07, LHFY12, LZW+13, LSS+15, TDLG19, WM13a, WP16a, WCB+18, WQ07, XLND11, ZZL+15]. **Editor** [De 18b, Lin11a, Lin14c, Lin14d, MY14, MFS+09, AD12, Ano05a, Ano05b, Ano13n, Ano14n, Ano15l, Ano16n, Ano16o, BvdP12, BDC17, BGK11, CW11, De 15b, De 15a, De 15c, De 15d, De 16b, DS16a, De 17b, DS17b, De 18c, De 18a, DS18b, De 19b, DFQ12, Ebe00, Ebe03a, Ebe03b, Ebe04a, Ebe04b, Ebe06a, Ebe06b, Ert07a, Ert07b, Ert07c, Ert08, Ert09a, Ert09b, Ert10a, Ert10b, Ert10c, Ert10d, Ert11b, Flo16, De 16a, De 17a, Flo17, GKR14, GJK15, HK10, Hag99, Hag00, HE02, Hag03, HVY16, IKT15, Joy02, JLS15, Kau98, KL14b, LSCN09, Lin11b, Lin11d, Lin11c, Lin12b, Lin12c, Lin12d, Lin12e, Lin12a, Lin13a, Lin13b, Lin13c, Lin13d, Lin13e, Lin14c, Lin14a, Lin14b, Lin16a, MH10, Moo03, MB19b, Mue19, MYM08, NSvW11, OO15, OA11, PZ12, Pur09, Qin09, Rus99, SK16a, SK15, SSL08, SL11]. **Editor** [SW17, Var01, WY19b]. **Editor-in** [Lin14d]. **Editor-in-Chief** [Ano13n, Ano14n, Ano15l, Ano16n, Ano16o, De 15d, DS16a, DS17b, De 18a, DS18b, De 19b, Ert07a, Ert10d, De 16a, Flo17, Hag03, Kau98, Lin11d, Lin11c, Lin12e, Lin12a, Lin13e, MB19b, Mue19]. **Editorial** [Ano97b, Ebe07, Ert07a, Ert09a, Ert11a, Kau95, Kau96a, Kau96b, Kau96c, Kau97, Kau98, KRTvW06, SGR06, SW06, BLRW05].

[CCK07, CG14, EJR+14, FCZ15, FSME14, HYB+17, HQC+19, MY96, MGM19, PA06, RMW09, Sbe97, THJ99]. **Error-Bounded** [HYB+17]. **Errors** [BJB+12, MMS+98, SDMT16]. **Escape** [MSME14]. **Escher** [LML+18]. **eSeeTrack** [TTS10]. **Establishing** [NSN14]. **Estimates** [GJC+17]. **Estimating** [RRD+13, SS08, Zag96]. **Estimation** [AT05, AMC10, CHM11, GWBO12, HBESB11, HAM11, HKKS18, IAIK16, IFM14, JNC+15, JFBB10, KBB+12, KLM04, KS00b, LKL+15, LDW+15, MUS16, MDS16, MOG11, MSM+11, RSS14, SBS16, SBJ+10, THV+14, WP19, ZCL+19, Zho16, KS00a]. **Estimators** [BLM96, KWH19]. **Eternal** [Bai13]. **Euclidean** [DPR00, KW05]. **Euler** [CAP18, RD10, RZP12, RSFH14, SAS16, SZHR11, SRHZ11, Wil12]. **Eulerian** [CM14, CMK15, JEH02, SWTH07, SXM17]. **Eurographics** [BvdP12, BDC17, KS14a, KL14b, MFS+09, SK15, AD12, CW11, Ota17, PZ12]. **EuroVis** [MYM08]. **EVA** [LGM+18]. **Evaluate** [DBP14, TTR10]. **Evaluating** [BW11, BBG+18, BJK+16, BPC+10, BBIF12, DBD18, GO15, GQM+18, HTP19, HSR18, IIC+13, KO12, KLD+09, KPR+14, LBS13, MHD+18, MBZB12, MTW+12, NAK18, OJEF19, PQMCR17, PBC17, Ros11, SSRE18, SND05, SBW17, Vas16, WZ08, ZLC+19, cKJG+12, SS19]. **Evaluation** [AJDL08, AZM12, ALBR16, AS05, BWS+19, BGP+11, BYB+13, BPS13, BTB10, BLIC19, BE09, Bru17, BGR06, BKH+11, BTJ+13, CCK07, COMP13, Csé08, Cse10, DRW16, DRHK07, EMdSP+15, FSTG16, FTES13, GLH+14, GHL15, HKBR+14, HMSA08, HKH+12, HQC+19, JRHT14, JF16, KGS+08, aKGS11, KKKT18, KOCC14, KCH11, KLL12, KDA+09, LLPP19, LT99, LD11a, LDA12, LFA+16, MLMF12, MYI13, MK13b, MMMY97, MIO+15, NDM+97, NHB+17, NTS11, OBKP18, PFW09, PFW12, PWHK16, PFG08, PB16, RMW09, SSKB14, SD12, SFR+10, WAM+19, WR11, WKSS05, WCA+17, XC19, YDGM17, ZHF+19, tCMR07]. **Evenly** [LMG06, WLZM10]. **Evenly-Spaced** [LMG06]. **Event** [CvW18, CXR18, DFD+14, DSP+17, GS14, GXZ+18, GJG+19, KBK11, KFN06, LLMB19, LSB+16, MLL+13, PLC+11b, VJC09, WG12, YLL+12, ZCD19]. **Event-Based** [KFN06, VJC09]. **Event-Guided** [DFD+14]. **EventRiver** [LYK+12]. **Events** [BSR+14, CDW+16, DGWC10, LGM+18, LWLM18, WCS+18]. **EventThread** [GXZ+18]. **Eversion** [FS04]. **Everyday** [PSM07]. **Evidence** [BE09]. **Evolution** [wAPS14, BSH+16, BGM+17, DMR04, KRRW19, KZW+16, LWW+13, LWL14, SBV+11, Sun03, WPZ+16]. **Evolutionary** [GdBG12]. **Evolve** [CLWW14]. **Evolving** [CLT+11, KW19, LSB+16, WLWL10]. **EvoRiver** [SWL+14b]. **EWA** [ZPvBG02]. **Exact** [KL14a, KTCG17, Wil12, XLND11, XHF12, XWL+15]. **Examination** [HHCL01, KLL12]. **Examining** [FWK16, aKS12, YQK+17]. **Example** [ADP02, BGCS17, CZZ17b, DV95, FXG12, LC10, TTR10, WWYS04, ZBO13]. **Example-Based** [CZZ17b, FXG12, LC10, WWYS04]. **Examples** [HYZ+12, SZ11, XYS+16]. **Exceptions** [QH18]. **Exchange** [LBLE+14, YSZ+19]. **Excluded** [LBH14]. **EXCOL** [ZHF12]. **Execution** [EASD+19, IBJ+14]. **Executive** [Ano14v, Ano16x]. **Exemplar** [CWDH09, LKL+15]. **Exemplar-based** [CWDH09]. **Exemplars** [DHM13b]. **Exhaustive** [JNK19]. **Exhibit** [RGFLL14, BHP+12]. **Existing** [CPC09, MPG+14]. **Exocentric** [EIKS18]. **Expand** [vHP09]. **Expanding** [LIRC12, Mal05, WWC+14]. **Expansion**

RGC+14]. **Feature-Driven** [WMGE12]. **Feature-Insensitive** [AFRS05, Wan06]. **Feature-Preserving** [FYP10, LDC16, LWC+18, SRML07, WWLM11]. **FeatureLego** [JNK19]. **Features** [AMA07, CC08, DW14, DS16b, EHBA11, GK95, GDKB17, KY06, LT11, LLLF08, MPWG12, QM16, SXX+19, SW97, WLL+05, WSPVJ11, WFS+16, YHR+19, YON06, LSC08]. **Feed** [PSM06, WXKP14]. **Feed-Forward** [WXKP14]. **Feedback** [AGN+19, BKA+11, EASB19, HOG+12, KFN06, LBHW18, RB11, WRHR19, WWL+10]. **Feel** [JAAL18]. **Feels** [GLM+17]. **Feiner** [Ano14d]. **Felix** [SPN+16]. **FEM** [JDSR+18]. **Ferns** [GSCI15]. **Fetus** [MMK+17]. **FI3D** [YSI+10]. **Fiber** [BWW+17, BVPtHR09, EBB+15, JDL09, KTCG17, RBN+19, TC17, WKI+17, WY19a, ZCL08]. **Fiber-Clustering** [ZCL08]. **Fiber-Level** [WY19a]. **FiberClay** [HRD+19]. **Fibers** [CDZ+09, SSC+16, SS08]. **Fibrous** [MMYK06]. **Fidelity** [BBG+18, BZGV14, CS18, CPK+05, HWA15, LBS14, MWCR06, MBZB12, MZS+19, RYL+18, RPHI08, SHC+09, VBC+16, YRP19]. **Fiducials** [HR11]. **Field** [Ano05c, Ano14h, BES12, BW08a, BSS+19, BBG+18, BJA+19, BSEN18, CML+07, DANS10, DGBW09, DPR00, DTT+17, FBW16, FCL09, FSE12, GPR+01, IK15, IAIK16, IMS15, JDSR+18, JHW+14, KDBB17, KOK+19, LJX+10, LKJ+05, LKC09a, LH16, LHH16, LBZ+11, LL04, LPG15, MK13b, PW95, PLC+11a, PBL10, PGL+12, QPNK18, RKSB13, RBK+15, RBN+19, RWBF18, RLH11, RLL+13, RBDG15, RLK19, RT12, RKZZ19, SKMR98, SZH97, TN11, USE13, WLL+05, WSY07, WLHD17, WASQ18, WZF+04, WT10a, YHLJ08, YCLJ12, YLK12, YNBH11, YXM+15, Zag96, ZHT07, ZFSL19, LLRR08, WSW16]. **Field-Guided** [LBZ+11]. **Field-of-View** [BSEN18]. **Fields** [AZC+12, BHHM19, BGT12, BZGV14, BHSH15, CMLZ08, CKW+12, CLB11, DHL09, ES05, FS19, FA15, GPR+01, GKT+08, GSS+19, GY02, GJR+14, GYK+16, GDN+07, HMTR19, HA04, HE06, HLL97, HVSW11, HRN+03, JBS06, KL14a, KWH00, KKSM19, LPKK12, LJL04, LVRL06, LCS06, LTWH08, LJHY14, LFR03, MBS+04, MCHM10, NKH11, NKH14, NJ99, NLS11, NDS10, PQMCR17, PZ11, PYW+16, PvdBC+11, PMW13, RKG+11, RKWH12, SCT+10, SHM+07, SWC+08, SK98, SLB04, SWCR15, SRW+16, SCKR08, SBW17, SH00b, SZ12, SS13b, TWC+18, TWHS05, TN13, TN14, TP12, TKW08, WC09, WC10, WTVP11, Wen14, WJE01, WPG05, WGS07b, WPL96, YQK+17, ZWZ+13, ZSL+16, ZBG+17, ZPP05, vLdL03]. **Fighting** [VF13]. **Figure** [KCC+17]. **Figure-Ground** [KCC+17]. **Figures** [LYY+16a]. **Filament** [LSY+18, MK09]. **Filament-Mesh** [LSY+18]. **Filaments** [SPN+16, ZW07]. **Files** [BSO+12]. **Filesystem** [BYB+13]. **Filling** [BB12, MSSH14, MM08, Wen14, WFM+12, DSF+14, WFG+19]. **Film** [YNYH06]. **Films** [LHC16, VAW+17]. **Filter** [BC12, CC08]. **Filtered** [ASDW14, LKC09a, SP07, Wea10]. **Filtering** [BRSP18, BTH+13, DMR04, JWD+14, LWC+18, NHPN14, RML12, SJ06, SBE+15, TLQ+08, WC09, WC10, WYP+15, WHX+19, WDC08, ZDH+19, ZFAT11]. **Filters** [LS02, MMMY97, SCKR08]. **Finding** [AG16a, BOZ+14, KHW+09, TWSM+11]. **Findings** [JHKH13, KDX+12, LKD19]. **Fine** [DWBR06, UBH19]. **Fine-grained** [DWBR06]. **Finger** [JNC+15]. **Fingers** [LBS+19, TMDO15]. **Finite** [AWB11, BGT12, BTB+04, BSL+12, FSHH12, GT17, GT19, GHP+16, MNKW07, NKH11, NLKH12, NKH14, SBM+06, WBH04, XHF12]. **Finite-sized** [GT19]. **Finite-Time** [BGT12, GT17, GHP+16].

PLK12, SK98, Sun03, TKTN09, WH09]. **Integrality** [MCG12]. **Integrals** [WPC+13]. **Integrate** [MDG00]. **Integrated** [GAMD10, MMH+13, RSD+13, SOL+16, Wal12]. **Integrating** [DQ07, DCM13, OSS+17]. **Integration** [CGC+11, CWT+08, CGB+13, FM04, HSW11, JYC+10, KPR+15, KBGE11, RLK19, SCKR08, WCD+19]. **Integrator** [GSS+15]. **Integrators** [CAP18]. **Intel** [BWW+12, Wal12]. **Intellectual** [ZCL09]. **Intelligence** [BCB10, YSZ+19]. **Intelligent** [DZL+14, FM06, LFW+19, TLM05, YCHZ12]. **Intensity** [IVJ12, SWB+00]. **Intensity-Gradient** [IVJ12]. **Intent** [NBM19]. **Inter** [GCL+18, LSS09, MGM09, NSS14, TIS16, VBC+16, WBA+14]. **Inter-Agent** [GCL+18]. **Inter-Attribute** [LSS09]. **Inter-Personal** [VBC+16, WBA+14]. **Inter-Process** [MGM09]. **Inter-Reflection** [NSS14, TIS16]. **Interacting** [ADWK+17, BPP+16, DDKA06, YHH+19]. **Interaction** [BIAI17, BBG+18, BGR06, CMHL11, DK13, EFN12, FWSL12, FDPH17, Guo09, GGZL16, HKR+08, HEG+17, HSTD18, JD13, JE13, KCPE16, KPBL16, KMLM16, Lam08, LHBF19, LBK+18, LGYG12, LS10, MWCR06, MCG12, MJ09, MBZB12, MF11, NW15, PBO+14, PGK16, PMvWC05, PSM12, RLM10, Rot13, RBLW07, SZS+17, SKBE17, SBV+11, Sim07, SS18, SDMT16, TWMZ19, TCM10, TFJ12, WBJ16, WLJ+12, WB05, YML+17, YaKSJ07, YSI+10, YEII16, HWA15, JSV+08]. **Interactions** [AL06, BOZ+14, CPW+15, DC17, GABJ07, GBCG+14, HSR18, JYC+10, JWL05, LIRC12, MSW+08, PDF14, RJD+07, SKY12, STM08, VBK17]. **Interactive** [ARB07, AAMH13, AM13, BSB+18, BSS+13, BGT12, BCH+13, BE18, BSM+13, BHZ+18, BWW+17, BBP08, BDSS18, BTB10, BJNN98, BWT+11, BPS+11, BIRW19, BGM+17, BMW17, BFTW09, BTJ+13, CGSQ11, CTGH13, CZZ17a, CWT+08, CLT+08, CA00, CYB08, CDZ+09, CYW+16, CZZ17b, CMK15, CK05a, CLRP13, CFHH09, CML+12, CCB+18, CMP14, DANS10, DZMQ16, DBW11, DvVH+19, DWF+19, DB07, EASB19, FYTL19, FPB17, FBTW10, FMH08, FSME14, FH16, FBM16, GFG+14, GXH+13, GW13, GSA+09, GLK+13, GHL18, GPK14, HLRS+08, HBJP12, HKBR+14, HB10, HE06, HSK14, HTP+08, HSSK16, HFG+12, HQ07, HC05, HTZ+11, Hub95, IC07, IIS14, JH13, JV09, JFS16, JWS04, JFTW07, JBH+09, JST+10, JJ09, JCG08, JKRY12, JY17, KSH03, KTC+19, KGS+08, Kas12, KERC09, KLM+08, KMDH11, KL96, KHS+19, KZD+10, KSY14, KOJL+14, KKH02, KZX+14, KMG+06, KBH06]. **Interactive** [KPB14, KGPS13, KBE09, KKKW05, KSW06, KSBE18, KML96, KKW+17, KCK+19b, LSJ+15, LB19, LCM07, LPP+06, LS13a, LKHW04, LBK+18, LDC96, LSR+13, LCZ+19, LWZ+18, LGG+18, LBLH19, LY12, LH14, LWD+17, LDM+18, LCL+19, LDR00, LMT+03, LMC02, LLCM12, ME19, MB18a, MV06, MKN+07, MMB+19, MAST16, MGPH06, MGJH08, MGKH09, MGJ+10, MH10, MJL+13, MY14, MI13, MAKM14, MRG+15, MQF06, MWC+12, MNC14, MHDG11, MPBM+18, NKH11, NLKH12, NHYY18, NW10, NTS11, NT99, ORRL10, OH12, ODH+07, OA11, PZ11, PKL+18, PPL+99, PPZ+12, PHE+18, PMCS11, PTMB09, PH08, QYH+18, RE01a, RGK+13, RHY14, RAL+17, RLB19, RKK16, RGFLL14, RSA+19, RBDG15, RJG17, RDB+12, RP12, Rot13, RKG+18, RSM+16, RSR+18, SSRE18, SSC+16, SK16a, SRHH16, SMWH17, SS13a, SWC+08, SKYS14, SLB04, STYC12, SDW11, SLK+17b, SH12]. **Interactive** [SLMA06, SPEB18, SDES19, SKL+14, SB17, SEB19, SW17, SFC+07, SGM+11, TKTN09,

Kinematic [COMP13]. **Kinetic** [LBL19, LSM03]. **Kirchhoff** [RLK19]. **KL** [Rob98]. **Knitwear** [CLZ+03, GRS95]. **Knot** [CLCQ12, HHQH17, ZWJZ12]. **KnotPad** [ZWJZ12]. **Knots** [GHK97]. **Knowledge** [AS05, CB15, KBKG07, MWN+19, SSS+14, SS06b, WSH+19, WGZ+19, ZGI+18]. **Knowledge-Assisted** [WSH+19]. **Knowledge-Based** [KBKG07]. **Knowledge-Transfer** [ZGI+18]. **KnowledgePearls** [SGP+19]. **Known** [RNK+15]. **Kong** [QCX+07]. **Krueger** [Han95]. **Kwan** [Ano13f]. **Kwan-Liu** [Ano13f].

L [MCA+10]. **L-Infinite** [MCA+10]. **Lab** [Ano05c, BTC13, KTC+19]. **Label** [CLG16, KOK+19]. **Labeling** [BDY06, BHZ+18, CG08, ČB19, FHS+12, KCK+19a, MTM+16, NW11, XLZ19c, LSC08]. **Labels** [IYS13, KCK+19a, TLH10]. **Lagrangian** [BTT09, GHP+16, HOGJ13, JEH02, SP07, SWTH07, SXM17, SFB+12, Wu16, YNBH11]. **Lake** [UDSL18]. **Lambertian** [MBT+18]. **Lamp** [GHE19]. **Lamps** [RKK16]. **Landing** [GS16]. **Landmarks** [Hu16a]. **Landscape** [IV11, OHWS13, TSD09]. **Landscapes** [TSW+07, WBP07]. **Language** [CCQ+14, DR08, HB10, KCS+16, LLL+19b, NW15]. **Languages** [DWBR06, RBGH14]. **Laplacian** [ATLF06, ZHX+11]. **Large** [AvHK06, AHSS14, AGL06, AABH+16, AAMG12, AAMH13, APS+14, APW16, BW11, BDJ14, BBD+11, BAAK+13, BDF+10, BBP08, BBD06, BWT+11, BTC10, CBPS06, CGC+11, CMCL06, CWDH09, CGH+19, CMK15, CPK+05, CK05b, CAN14, CVC+12, CLB+16, CLWW14, Dic14, DGWC10, DYW+13, DHR+19, FSHH12, FSW09, GKN05, GCL+15, GSS+15, GPL+11, GHGM06, GHA+08, GCL+18, Guo09, HSS11, HAAB+18, HHWN02, HDSC19, HE99, HSSK16, HBC12, HC05, HTE11, IWR+18, IV11, IDW+13, JH13, JST+10, JS98, JHP+14, JDA+11, KSH03, KRW19, KHDL07, KLK+09, KKP+17, KZX+14, KJW+14, KGJ09, KML96, KCM18, LKD19, LBK+18, LSS+11, LFH06, LFLH07, LZH+13, LWL+17, LXR19, LBS+19, MS08, MGM14, MNS18, MGM09, MOC+14, NLS11, PFW09, PFW12, PHJ+10, PY09, PGI+17, SMDS14, SXM17, SF19, SHS11b, SMER06, SCL+12, SKH+19, USM97, WGS07a, Wan11, WFW+17, WYL+19, WWZ+19]. **Large** [WSLL12, WDSC07, XCZ+19a, YHW+07, YXM+15, ZBG+17, ZMT+19, ZBDS12, dLVvL06, vHP09, vWN04, vdZCT16]. **Large-** [HBC12]. **Large-Magnitude-Range** [ZBG+17]. **Large-Scale** [APS+14, BWT+11, Dic14, DGWC10, FSW09, GCL+18, HAAB+18, HDSC19, JST+10, KKP+17, LFLH07, LZH+13, LXR19, LBS+19, MGM09, MOC+14, PFW12, PY09, SXM17, SKH+19, WSLL12, YXM+15, LFH06, LWL+17, SMDS14]. **Large-Scene** [APW16]. **Largest** [SWC+08]. **Lark** [TIC09]. **Laser** [GK95, KIS17, PWG17, VAB12, WG16, ZZSS10]. **Last** [LRN96, LBS+19]. **Latency** [BWS+19, FS14, FSTG16, FKS16, LBS+16, LH14, OWS15, SGQ16]. **Latent** [HLG+14]. **Lattice** [AEM09, BLW14, Cse10, Cse13, EM06, EVM08, GLX17, KEP08, Kim13, LPQF14, QXF+07, WZF+04, WLMK04]. **Lattice-Based** [QXF+07, WZF+04]. **Lattice-Boltzmann** [AEM09, WLMK04]. **Lattices** [AEM09, HAM11, PQF+09]. **Law** [KH16, MMT+14, HYFC14]. **Laws** [ZK10]. **Layer** [IHS17, LBM+06, SvLF10, SWF+16, WLSW08, YBW+19]. **Layer-Based** [WLSW08]. **Layer-Wise** [SWF+16]. **Layered** [BW11, BHW06, BH07, IHK05, KS00a, KS00b, KS01, KA12, MTS07, OKSK16, WWY14, ZHC18]. **Layering** [RASS17, ZHF12]. **Layers** [GQGP17, RBG07, SBV+11, WTP+19].

[BVB+13]. **Making** [CDW+16, IIS14, KDX+12, PSTW+17]. **Management** [BTC13, CMRS03, ET08, FWL17, GZL+14, IG19, IYS13, KWS+14, LSJ+15, MBH+12, PFK07, TLS17, WP18]. **Manga** [YHL+17]. **Manhattan** [VAB12]. **Manhattan-World** [VAB12]. **Manifold** [GTLH01, HHQH17, KW11, KBH13, LPG12, PYW+16, SJW07, TFO09, ZCFL15, ZWM+19]. **Manifolds** [DMR04, ZWR14]. **Manipulate** [JAAL18]. **Manipulated** [SBS16]. **Manipulating** [GGL+14a, HBM+13, MJ09, PIS15]. **Manipulation** [BBK07, CK05b, CSC06, KC14, KYT+18, MCG12, OKB+19, SLMA06, TMDO15, YHL+17, YJL+15, ZWS+17]. **Manipulations** [KISE14]. **ManiWordle** [KLKS10]. **Manoeuvres** [JPD+18]. **Manometry** [KHZR18]. **Mantle** [SPO+12]. **Manufacturing** [ACR+19, JHP+14, WAWS18]. **Many** [ASMP17, HBC12, KPBG13, OBS+15, SHC+09, Wal12, WC13, YDGM17, YCHZ12, ZK14a]. **Many-Core** [HBC12, SHC+09, ZK14a]. **Many-Light** [WC13]. **Many-to-Many** [YDGM17]. **ManyEyes** [VWvH+07]. **ManyVis** [RSD+13]. **Map** [AABS+14, APP11, APW16, BT13, BDM+17, BDY06, BDD+16, BSV11, CLG16, CDBR14, CM16, DWS10, EWWL98, FYWY16, GXH+13, HGWW18, HR96, HSL19, Jen12, JhR10, KCH11, KLG+16, KSBE18, NB12, SRMOW11, WS06a, WP16a, YYR17, YKL+08, YSS+12, ZMZM15, MTS07]. **Mapped** [FYWY16, PS12]. **Mapping** [AIS18, BKA+11, CXM19, DT10, EWWL98, FST+14, Guo09, GZ14, HAT+00, HUPS14, HWL+11, HZH14, JKRY12, JY17, KH19, KLS+18, KKW+17, LYY08, LBG+08, LGQ09, LGY19, MZX15, MN07, MDB18, NWI17, PNML08, PSN10, PWG17, SGS+19, SKP07, SJB10, SLS+17, SHC+09, SJ09, SCL08, THV+14, XYGL13, YLY+12, ZMG+10, ZDM13, ZSG+13, ZKK02, vHWV09]. **Mappings** [HSK17, NGK18, PMH18, RGE19]. **Maps** [AMJ+12, AYRW09, APV+15, BMJK09, BJB+12, BSR+14, CH17, JDL12, JVDF19, KMM+13, LLHL14, MSME14, MV06, MKH12, MMK+17, MDL+19, NE04, NHB+17, NW11, OBS+15, RCSJ18, RASS17, RM13, SKB+18, SWvdW+11, SST+17, SLQW17, TIW+19, TGS11, VT08, WC11, WZC+15, War09, XHL18, YDJ+19, YGFX19, ZFL17, ZM17, vW14, KFS+17]. **MAQUI** [LLMB19]. **Marbling** [AB06]. **Marching** [DSC+08, DSS+09, LB03, Nie03]. **Marginal** [XZM17]. **Mark** [MSM+11]. **Marker** [KSNY17, LZD13, LJH+18, NWI17]. **Marker-Based** [LJH+18]. **Markerless** [CMPC06, KH19, LH09, MGL07, SM09, SLS+17, WLT+18b, XLC+18]. **Markers** [AIS18, BDJ14]. **Markov** [PBL10, RS12]. **Martian** [YQK+17]. **Mashup** [WDSC07]. **Masking** [GO15, LLPP19]. **Masks** [KM16]. **Mass** [AAFW17, CM14, DT10, EGG+12, FT09, RB18, SVAC12, ZSG+13, vLBR+16]. **Mass-Conserving** [CM14]. **Mass-Spring** [SVAC12]. **Masses** [VAB12]. **Massive** [AK02, ADWK+17, AA11, CL18, CCL+16, KSY14, PSN10, SG05, vdEHBvW14]. **Massively** [LLB+12]. **Massless** [SLNB11]. **Master** [TAK+05]. **Master-Slave** [TAK+05]. **Match** [LDW+15, PYHZ14]. **Matches** [BNTM16]. **Matching** [CCM+13b, FKLT10, FSHH12, HEWK03, KSBE18, LRP97, LWZQ17, LFP07, LB17, MGMP18, SSE15, TWSS16, WSW16, XLND11]. **Material** [AGDJ10, BDS+03, HIH+18, HKG07, IZM18, LLL+10, POD+13, RYKL13, SVAC12, SFA+15, SRKL19, UMW+12, WLLC15]. **MaterialCloning** [YL16]. **Materials** [BSS+13, BHTF07, GKL+16, HWW18, LB15, MBT+18, RBDG15, Vis15].

[CSWP18]. **Multisurface** [CML+12]. **Multithreaded** [LH09]. **Multitouch** [CML+12, MCG12, SA19]. **Multivalued** [WKZL04]. **Multivariate** [BDSW13, CvW18, CXM19, CvW11, EG09, GHGM06, GHA+08, GGA+11, GCML06, Guo09, GXY12, HDSC19, HLCB18, HHG14, IML13, JFSK16, JBS08, KKSS13, KMM+13, LS09, LT18, LWCC18, LS16, LDA12, NSL19, NGCL19, PHJ+10, PV06, RML12, RASS17, RSA+19, SWvdW+11, SK16b, SSGM19, TIW+19, TSH+14, WFM+12, ZW18, vdEvW14, HSKIH07]. **Multiverse** [SWR+13]. **Multiview** [CMF+18, LDX10, RHZN11, TCM+12, WLDW11]. **Multiviewpoint** [Sim07]. **Multiwavelength** [LFH08]. **Munin** [BFE15]. **Mural** [JS98]. **Muscle** [AS11, CYZ+09, DCKY02, TSB+05]. **Muscles** [WGF08]. **Museum** [HSC08, MLMF12, RGFLL14]. **Music** [CQM10, FXG12]. **Music-Driven** [FXG12]. **Musicians** [JFS16]. **Mutual** [BBB+12, TAK+05]. **My** [BSB+18, SS19, SHV+18]. **MyBrush** [KPV+18]. **Myocardial** [TBB+08].

Name [SWY+17, WBDS11]. **NameClarifier** [SWY+17]. **Nanocubes** [LKS13b]. **Nanoscale** [AABS+14, MAAB+18]. **Nanosphere** [GKL+16]. **Nanostructures** [MDS+18]. **Nanotechnology** [QMK+06]. **Narrative** [BMW17, FYF+18, HD11, HDR+13, RCW+18, SH10, WLB+14, WLF+19]. **Narratives** [KBI+18, SBB+18]. **Narrow** [AS11, LKHW04]. **Narrow-Band** [LKHW04]. **Narvis** [WLF+19]. **Nasal** [ZMH+09]. **Native** [FYTL19, STYC12]. **Natural** [BPB14, BIPS12, FTB+13, LCC+17, LLL+19b, MF11, NW15, NSN14, RJG17, SBK+11, SLF+12, TFJ12, XZX+17, YN03, YON06]. **Naturalness** [KOF08]. **Naturalness-Preserving** [KOF08]. **Navigable** [WKW06]. **Navigating** [CVC+12, CML+12, CLB+16, FWR00, JS98, SJMS19, SPK+07, WS06a]. **Navigation** [AGN+19, AN13, BFP14, BL07, BJNN98, BIPS12, CRI06, EDF08, GSA+09, HD12, HMM00, HR11, IV11, KBKG07, LSJ+15, LYY+16a, LODI16, PvdBC+11, PGI+17, SW12, SM06, SAC+08, TYSN06, TMM+13, WHA07, WP18, ZHLR14, vWN04, JSV+08]. **ND** [CXM19]. **Near** [ACR+19, Ano96b, BBG+18, DTT+17, LH16, LHH16, LSJ96, RWBF18, RBDG15, XGS+19]. **Near-Eye** [ACR+19, DTT+17, RWBF18, XGS+19]. **Near-Field** [BBG+18, LH16, LHH16, RBDG15]. **Nearest** [CK10, XLND11]. **Nebulae** [MKHD05, WAG+12]. **Needle** [HJLH19]. **Neighbor** [CK10]. **Neighborhood** [DSF+14]. **Nematic** [JKM06, MJK06, SPCJL06]. **Nested** [Mun09, WLSL17]. **Nets** [CD14, ST09, vHWV09]. **NETSPEAK** [RGP+12]. **Network** [wAPS14, ABC+19, BRH+17, BF01, BEW95, BBH+17, BKW03, CDK+17, GKL+13, HZM+16, KAKC18, KDMW16, LLB+12, MV06, MKN+07, MPWG12, MGPH06, MJ09, NOB16, PGU+13, SNG+17, SFMB12, SHH11, SWW+15, SSG12, SA06, SPEB18, VMCJ10, WLS+19, WPZ+16, YSD+17, vdEHBvW14, vdEvW14, vdEHBV16]. **Networked** [DK11b]. **Networks** [AHSS14, AHK+17, BFP14, BG04, BSKR19, BJY+18, BN11, CGH+19, CCM12, DVP+18, DWvW12, FBL+18, GRS+19, GdBG12, GZ11, GWE+19, HSS11, HSCW13, HS11, HF06, HFM07, HBF08, HKYM17, JHGH08, KCK+19b, LPP+06, LYL19, LZZ+19, LLHL14, LSL+17, MB19a, MK09, PS06, PHV+18, RFFT17, RFLL18, SG09, SMER06, SS18, SGPR18, UMW+12, VRW13, WGSY19, WKW06, XLZ19c, YDG+16, YDC+14, ZEC08, DMS+08]. **Neural** [BF01, BJY+18, JBH+09, JSR+19,

GB08b, HB14, HLRC+12, HRISI15, HDJ05, IIS14, JKM06, JHBK19, KKSM19, KLL12, KMDZ10, LCR16, LAM10, LDSM17, LKC09a, LKC09b, LKR+18, LKS13b, LDR00, LXT18, MB03, MLKS18, MT01, NQX+05, OKI15, PSSC17, PD04, PMP10, PFW12, Per95, PKMR15, QYH+18, RGF+04, RJD+07, RHJ+16, RYL+18, RKSH11, RHD+06, RASS17, RBLW07, SSI99, SLM18, SOS+17, SKP07, SN10, SVGR16, SGJM18, SKH+19, SAC+08, SFR+10, SHR+11, SSE15, TCM06, TLC+10, THV+14, VMT06, WRM+10, WTW+08, WFW+17, WOO17, WSE07, WXY17, WY19a, XESV97, XYS+16, XCZ+19b, YML+17, YS03, ZQS11, ZHX+11, ZWW+12, ZDM13, ZX18, dRBS+12, vdZCT16, vFWTS08].

Real-Time [AL11, BTB+04, BTB10, BTH+13, CMF+18, CK05b, ČB19, CORLS96, CMPC06, CDA99, EHH+19, FS19, GSCI15, GMD13, GWBO12, GB08b, HB14, HLRC+12, HRISI15, HDJ05, KKSM19, KLL12, KMDZ10, LCR16, LDSM17, LKC09a, LKC09b, LKR+18, LKS13b, LXT18, MB03, MLKS18, NQX+05, OKI15, PSSC17, PD04, PMP10, PKMR15, QYH+18, RGF+04, RHJ+16, RYL+18, RKSH11, RHD+06, RASS17, RBLW07, SOS+17, SKP07, SN10, SVGR16, SKH+19, SAC+08, SHR+11, TLC+10, THV+14, VMT06, WRM+10, WTW+08, WFW+17, WSE07, WXY17, WY19a, XESV97, YML+17, ZQS11, ZHX+11, ZWW+12, ZDM13, ZX18, dRBS+12, vdZCT16, XCZ+19b].

Real-Walking [PFW12]. **Real-World** [LAM10, SLM18, vFWTS08]. **Realism** [JDA+11, KSS09, KFN06, LRM+13]. **Realistic** [CDR+18, CLZ+03, CORLS96, DDKA06, JWL05, ZKM18]. **Reality** [Ano12e, Ano14j, Ano14d, Ano14e, Ano15c, Ano16d, Ano16e, AS11, BSB+18, BBC15, Bai13, BBBM18, BDB+16, BSE+17, BZS+13, BAP+17, Bil13, BDH+18, BLO+05, BSWL12, BLRW05, BC18b, CDAF18, CLB13, CMPC06, CLS13a, CGB+13, DS17a, DS18a, DJK+06, DH08, DRHK07, EPS+15, FBI07, Fuc13, GS08, GLM+17, GKR14, GJK15, Ger17, GWP+18, GLZR17, HK10, HBESB11, HIH+18, HSR18, HCP+15, HBKS09, HAGS16, HJLH19, HF10, HF11, HV00, IHD+18, ILMH12, JAM+14, JLS15, KMS09, KJH+18, KSY16, KSNY17, KOJC12, KBS13, KGAM18, KBB+18, KKL11, KM10, KHSB11, KTWW13, KLD+09, KLL12, KYT+18, KOK+19, KV98, LKS+19, LH09, LRM+13, LSCN09, LBS+16, LvL12, LG12, LBKD09, LABS10, LDFZ14, MTM+16, MNZ+15, MUS16, MBZB12, Meh17, MK13c, MKT+18, NMN+18, NQX+05, NJJ11, NTS11, NSS03]. **Reality** [NTT+19, OIR+17, OSB+15, PLW12, PLE+18, PTM+18, PIS15, RBK+15, RSBB17, RHJ+16, RWBF18, RWF19, RPAC17, RBDG15, RJG17, RFSP19, Ros13, STB18, Sat13, Sch13, SH00a, Seq12, SYYC11, SvLF10, SSL08, SL11, SFL+16, SBHW11, SRKL19, SB14, SJK+07, SSE15, TMM+13, TL11, TGW+95, UKF+18, VGKS12, VBV+18, WRM+10, WLW17, WRHR19, XST+18, YC14, YFZ+18, YON05, YON06, ZK17, ZHF+19, ZHLR14, HWA15].

Realizing [BLO+05]. **Realtime** [Dan16, HZL+19, TWMZ19]. **Rear** [RLM10]. **Rearrangements** [ORRL10]. **Reasoning** [CCM12, EFN12, LS10, MDF12, OPH+16, VH16, WM16]. **Reasons** [LXC+17]. **Recalibration** [ANR+18, KHSS14]. **Recall** [BBK+16, HKKS18]. **Recalling** [SBB+18]. **Recirculation** [WRT19]. **Recognition** [BBK+16, HBESB11]. **Recoloring** [KOF08]. **Recombination** [FYF+18]. **Recommendation** [HWZ+19]. **Recommendations** [WMA+16]. **Recomposition** [LWZ+18]. **Reconciliation** [PDW+14]. **Reconfigurable** [BSM06, LYY+16a, LPG+18]. **Reconstruct** [LLR18]. **Reconstructed** [RCW+18].

[RGE19]. **Relevant** [AAFG18, WLL+16]. **RelEx** [SFMB12]. **Reliable** [GLM06, HHCL01]. **Relief** [FYY+19, LWYM12, SRML09, SJM14, WTP+19, YHJ+17, ZZL+15]. **Relighting** [CBLD11, LDR00, WPC+13]. **Relocalization** [GSCI15, KCH11]. **Remapped** [HSR18]. **Remeshing** [AGL06, HYB+17, LJX+10, VCP08, WYL+19, YBZW14, YW16, YFC+19, ZHLB13, Zhu05]. **Remodeling** [CAH+13]. **Remote** [CMP14, GLB16, LS07a, OIR+17, PAB+08, SJH+07, YLC+19]. **Removal** [JWS04, WWYP19]. **Rendered** [MDG00, PFK+08, WQ07]. **Renderer** [FSTG16, WMS98]. **Renderers** [YESK95]. **Rendering** [ABCO+03, Ano05d, Ano09b, BES12, BSS+13, BGT12, BLM96, BLL19, BMTD05, BHWB07, BTB10, BTHD11, CR08, CICS05, CBPS06, CWM+09a, CLZ+03, CCB11, CMF+18, CL06, Chr03, CH03, CMSW04, CHM11, Csé08, DH02, DDKA06, EMRY02, EHS13, EMP09, Elb95, EJR+14, EBRI09, FM07, FM12b, FSW09, FAW10, GW06, GMS+07, GUO00, GAMD10, Guo95, GQGP17, HR07a, HAAB+18, HCS+07, HIH+18, HWHK16, HQS18, HMBG01, HSR13a, HSR13b, HA04, HLY10, HHM14, HK99, HBC12, HQ07, HC05, HGH+10, IWR+18, IZM18, JV09, JVDF19, JWC05, JM10, JKRY12, KSH03, KV03, KRW19, KKKT18, KKSS13, KWP01, KWH00, KKH02, KM16, KJL+12, KKPS08, KMLM16, Lac96, LA11, LRN96, LKC09a, LS13a, LDC96, LS07b, LRZM11, LSR+13, LY06, LR11, LHZ+04, LCDP13, LLR18, LWP+06, LMT+03, LMC02, LLY06, LLPY07, MDM10, Max95a, MBT+18]. **Rendering** [MAWM11, MTS07, MPBM+18, MRT00, NK06, Ney98, NJ16, NvdVS00, NTS11, OWS15, PCY08, PLW12, PJ03, PAB+08, PH08, PSM06, QCH+14, RBG07, RE01a, RZHB+08, RPAC17, RE01b, RDB+12, SE17, SWB+00, SLM18, SSB+17, SF19, Sel15, SD11, SKMH14, SM97, SHC+09, SEH08, SLW+10, SHR+11, TK14, TLQ+08, TWBBM17, VF13, VPB+11, Vis15, WZQK04, WW07, WSY07, WTW+08, WK13, WX13, WXKP14, WH18, WLMP19, WBK+07, WDC+07, WKZL04, WPG05, WMGE12, WII+12, WC13, WLLC15, WY19a, XESV97, XTY+11, YHLJ08, YLX+12, YCLL08, YL95, YSGM05, ZK06, ZM13, ZDM13, Zha14, ZEC08, ZWM13, ZG06, Zhu05, ZBDS12, ZD18, dRBS+12, vRKEE17, DMAM19, LCM07]. **Renderings** [LB17]. **Renderserver** [PAB+08]. **Reordering** [SCL08]. **Reorganization** [LBGV13]. **Reorientation** [BL15, PFW09]. **REP** [RF11]. **Repair** [BDK98, HF11, NT03, PPM+11, ZJH07]. **Repaired** [CC08]. **Reparameterization** [YLY+12]. **Repeated** [HJW99a, HJW99b, LPLT11]. **Repetitive** [XA10]. **Replays** [PKG12]. **Replication** [DJ18]. **Replications** [HKKS18]. **Reports** [BKM13, LTM18]. **Repositioning** [BL15]. **Repositories** [GCL+15, KLK+09]. **Repository** [PFG08]. **Representation** [AW03, CMPS97, CLB11, DVC18, FGF+05, GIS03, HF06, Hu16b, KLCK17, KHPS07, KDA+09, LF97, LHH+12, LHFY12, LPLT11, LKT13, LXRY18, MZFM98, MB01, Mur95, NDS10, PB13, PBA10, SXM17, SG05, SLGM19, SP96, SCYW16, TvET14, WLSW08, WD10, YSD+17, YS03, ZBZ+13, ZKG07]. **Representation-Independent** [PBA10]. **Representations** [GK07, HHH16, HJC14, JV09, JEG12, JDL09, LZZ+19, MCK12, WJD17]. **Representative** [LBR+17, LPCRH19, TLLH12]. **Representativity** [PBPP11]. **Representing** [GHL15, LVRL06, PW13, RSFH14]. **Reproducible** [RB18]. **Reproduction** [CK16, IDAK15, LRP97, MK13c]. **Request**

MOC+14, NLS11, PFW12, PLE+18, PY09, RKSB13, RKG+11, SXM17, SZY+18, SKH+19, TKE16, VWvH+07, WSLL12, YXM+15, ZMT+19, ZHL+09, LFH06, LWL+17, SMDS14]. **Scale-Adaptive** [MDS+18]. **Scale-Free** [JHGH08]. **Scale-Space** [KSSW09]. **Scale-Varying** [DB07]. **Scaled** [CWC+06, KCT+17]. **Scales** [CVG13, SSGM19]. **Scaling** [LMZ+14, LT18, ZKK02]. **Scamming** [KFS+19]. **Scan** [AHRG10, RLNN11, YR95]. **Scan-Based** [RLNN11]. **Scan-Conversion** [YR95]. **Scanned** [SGJM18]. **Scanning** [PWG17, RBK+15, TZL+12, WG16, ZZM06]. **Scans** [BMR01, LSZ+18, RHR+09, VAB12]. **Scatter** [FHSW13, HOG+12, LT10, MG13, RGE19, WHZ+18]. **Scatter/Gather** [HOG+12]. **ScatterBlogs2** [BTH+13]. **Scattered** [BF01, KH01, LWCS96, LWS97]. **Scattering** [ASW13, AWB11, KKSE17, NSS14, Sil95, YGX+09, ZW07]. **Scatterplot** [CCM13a, EDF08, HKF16, KCPE16, SW12, SMT13, VMCJ10]. **Scatterplots** [BW08b, BGR06, CCM+14, GCNF13, LWCC18, MPOW17, WCG+19]. **Scenario** [BC18b]. **Scenarios** [GHE19, LBI+12, TNT17]. **Scene** [APW16, FYF+18, FM04, LSJ+15, LXRY18, MB01, NHYY18, PDRK19, SSI99, SG99, WLMP19, ZX18, ZHC18, ZZM06, ZGM18, ZKG07]. **Scenes** [BGCS17, GN12, LBD13, LRP97, LWW+07, LDR00, MFZ+17, NKP+15, Ney98, PZLZ17, SLM18, XA09, YYT16, LCM07]. **Scenic** [Hu16a]. **Scent** [PBE19]. **Scented** [WHA07]. **Schedule** [JHP+14]. **Schedules** [PGSF16]. **Scheduling** [KLL+13, TK14]. **Schematization** [vGMSW15]. **Scheme** [BPL+19, Cse13, HPJG08, LH03, LYY08, LY06, LDC16, PB13, RF11, VP04b, ZC06, Zhu05]. **SchemeLens** [CLB+16]. **Schemes** [Csé08, LRN96, SFBP09, TdJ14, TdJ15, ZTP05]. **Schlieren** [BPS+11]. **Science** [Ano12g, BSS18, BRS18, CGGR18, DJ18, Ert10c, GGHZ19, MW13, UMW+12, vW11]. **Scientific** [AL06, AB01, BKW16, BW17, FHKM17, HE99, KAM+08, KMDH11, KH13, KCS+16, LDC96, LS16, Mar18, MGKH09, Nie95, NTT+19, OR98, OR99, OSBM14, RBGH14, Rob98, SKK+14, WJA+17, WBP07, WKZL04, YSI+10]. **Scientist** [DLW+17]. **Scientists** [GKL+13]. **Scission** [DCK+12]. **Scissor** [ZWC+16, ZTA12]. **SciVis** [Ano19i, Ano19j]. **Sclerosis** [SGQ16]. **Scream** [BS11]. **Screen** [AJ17, CCAL12, DK10, GQM+18, IWR+18, MYI13, TIS16]. **Screen-Space** [DK10, IWR+18]. **Screenit** [DSG+17]. **Screens** [BGR06, DSG+17]. **Screentone** [YHL+17]. **ScreenX** [LLKN17]. **Scripting** [PUNI11]. **Sculpting** [CCB+18, GM05, HRD+19, WM13a]. **Sculptures** [STS+14]. **SD** [HRN+03]. **Seamless** [BMY05, FPB17, PWIG18, TS08]. **Seamlessness** [SLGM09]. **Seams** [PST+15]. **Search** [BBH+17, BWK+13, CWT+08, CDF09, GNSP+14, GMD+17, IDA+14, JWC05, KBGE11, KOBH19, KOK+19, LRM+13, LCP+13, LDFZ14, NHB+17, NZ06, NB12, RSBB17, RH19, RGP+12, SWL+14a, SCM+06, ZWBH13, vHP09]. **Search-Based** [CWT+08]. **Searching** [SPP+14, WPS+09]. **Seated** [KKKT18]. **Second** [GRT17, HLL97, HVSW11, KH16, SK10, WXKP14]. **Second-Order** [GRT17, HLL97, SK10, WXKP14]. **Section** [AD12, Ano12g, BvdP12, BDC17, BHTY15, BGK11, BKL18, CCH14, CLS07, CW11, DFQ12, DW17, Ert10c, FBI07, GKR14, GJK15, GW13, GMM05, HK10, HVY16, HKQ13, HP04, HLM10, ILMH12, JLS15, KMN04, KRTvW06, KS14a, KKL11, KHSB11, KPGL12, KL14b, LS06, LSCN09, LST+16, LBKD09, LABS10, MSW19, MH10, MW13, Moo03, MYM08, NSvW11, OA11, Ota17, PZ12, Pur09, Qin09, RvWT05, SK16a, SK15, SGR06, SSL08, SL11, SW17, TL11, VW12, WLW17, WM05, WY19b, vWMT04, vW11]. **Sectional**

SZB+09, SNLD06, SMM12, TKE16, WBJ16, XRP+12, YHR+19, dLVvL06, RSRDS16]. **Studying** [BGC+11, HZM+16, RKSB13]. **Style** [ARB07, CH03, DFG+14, HA18, KBD+11, LTP+05, MSSH14, MTW+12, TSLR07, ZJX+15, CDK+17]. **Style-Aware** [ZJX+15]. **Style-Preserving** [MSSH14]. **Styles** [CCM11, SJM14]. **Styling** [KZW+16, WBK+07]. **Stylistic** [vPBB+10]. **Stylization** [HLYL18, KISE14, KKSE17, yKL12, KCWI13, LXT18]. **Stylized** [CL06, YCLL08]. **Sub** [WHL16]. **Sub-Pixel** [WHL16]. **Subdivision** [BDHJ04, CMS06, CM10, CWQ+07, GGLQ19, KMDZ10, LRZM11, LHFY12, MS08, MQV00, NO97, PPT+11, PP09, QMV98, WQS07, ZC06]. **Subdivision-Based** [LHFY12]. **Subdivision-Surface** [BDHJ04]. **Subgraphs** [MJ09]. **Subgroup** [DvVH+19]. **Subjective** [AL06, MIO+15]. **Subliminal** [BL15]. **Subneighborhoods** [FYP10]. **Subset** [YS17]. **Subsets** [GGL+14a, LPK+13]. **Subspace** [CZZ17b, KJ12, WX17, YXG+13, YRWG13, WM18]. **Subspaces** [WM18]. **Substitope** [BLS04]. **Substrates** [SA06]. **Substructures** [Hu16b]. **Subsurface** [AWB11, CCB+18, HFG+12, NSS14, SAM+07]. **Subtle** [LDFZ14]. **Subtyping** [GNDV+18]. **Subway** [AABS+14]. **Success** [KHE09]. **Suggested** [BEDF16]. **Suggesting** [ZAM11]. **Suggestions** [DC17, Koo08]. **Suggestive** [CGH+19]. **Sugiyama** [Bac07]. **Suite** [SM04]. **Summaries** [FFB18, TSH+14, WPS+09]. **Summarization** [DZL+14, GXZ+18, MI13, PKG12]. **Summarization-Based** [DZL+14]. **Summarizing** [BFL06]. **Summary** [BMW17, CXR18]. **Summed** [XHL18]. **Super** [CMF+18, JNK19, RZNS04]. **Super-Multiview** [CMF+18]. **Super-Voxels** [JNK19]. **Supercluster** [MQF06]. **Supercomputing** [EGH+06]. **Superconductor** [GPP+16]. **Supercubes** [WD09]. **Superellipsoid** [JKM06]. **Superellipsoid-based** [JKM06]. **Superfluid** [GLX+18]. **Superimpose** [SSI99]. **Superman** [PLE+18]. **SuperMatching** [CCM+13b]. **Superpixels** [PZLZ17]. **Superquadric** [SK10]. **Supersymmetric** [CCM+13b]. **Supervised** [KW11, WFC+18]. **Supervision** [KEV+18]. **Supine** [NMGK17, ZMG+10]. **Support** [DBD18, DFD+14, HJLH19, Hu16b, HTC09, KWS+14, MTRP10, NHB+17, PMCS11, PTMB09, STM17, SRCP02, SRCP03, SOL+16, TAE+11, TFJ12, WKCB07, WLW+18, WQZ+18, XGS+19, YDC+14, ZCD19]. **Support-Free** [WLW+18, WQZ+18]. **Support-Induced** [Hu16b]. **Supported** [NJJ11, ZHLR14]. **Supporters** [Ano12m]. **Supporting** [Ano11g, HSCW13, HTL13, HMSA08, KSL+17, KPS16, LFW+19, LBS+19, MT14, MGPH06, PSPM15, RAL+17, SVGR16, WPS+09, ZGI+18, vHP09]. **Supports** [BMST97, IDA+14]. **Suppression** [BL15, SFC+07]. **Surface** [AG16a, AG17, APS+14, AMB+13, BH07, BRT12, BMR+99, BDHJ04, BK12, BAB+18, Bon98, BS08, BB19, BN12, BFTW09, BKW10, CGL+17, CWQ+07, CG07, CG08, CPG09, DSKA19, EDvW19, GWBO12, GR04, GSG96, GCZL14, GH95, Gué99, GXW+18a, GXW+18b, HBG11, HAT+00, HKG07, HCP+16, HYB+17, HPC+13, IZM18, JR07, JKLG08, KBE09, KFS+17, KY06, LLLN+14, LBG+08, LGQ09, LLWQ13, LPS+13, LQLX14, LB17, LBH14, LLRR08, MS08, MW99, MDHB+07, MDB18, NWI17, NKH11, OJ12, OMD+12, OKI15, ORC07, PB13, PBL10, QLLM13, RYL+18, RvWT08, RE14, RL08, SFH06, SSH14, SAR96, SB04, SO17, SF04, SSG16, TC09a, TWSM+11, UBH19, VP04a, WWC+14, WYL+19, WPG05, YKL+08, YYFX18, YYD+19, YSS+12, ZG12, ZWW+12, ZGHG11, ZKK02].

DMAM19, DSP+17, FPV+13, FSE12, GJG+15, GBP07, GHA+08, GS14, GBFM16, GDKB17, HSCW13, HHB16, HSR13a, JFSK16, KKC15, KSS09, KW19, KPS16, KRRW19, LS09, Lin16b, LSS09, LXR19, LPK+16, LYK+12, MTM+16, MLL+13, SM17, SFP+19, SBE+15, SLQW17, SPW02, TIS16, TNT17, WPS+09, WG16, WG12, WS09, WXW+19, YGFX19, ZCD19, vLBR+16, BMLC19, WDSC07].
Temporally [CRH05, MVN+19, WLHL13].
Tennis [PYHZ14, RBLW07, WLS+18].
TenniVis [PYHZ14]. **Tensile** [SVAC12].
Tensor [AWHS16, BRSP18, BRP19, CYZ+09, DGBW09, FA15, HLL97, HVSW11, JKM06, KWH00, KW06, PYW+16, PLC+11a, RBN+19, RKZZ19, RC06, SS08, STS10, SGM+11, TKW08, WL16, WKB+13, WXC+08, YRP18, ZDL03, ZHT07, ZYLL09, ZSL+16, ZPP05]. **TensorFlow** [WSW+18].
Tensors [AS98, GRT17, OJ12, SK10].
Terascale [TBR+12]. **Term** [LD11b].
Terrain [BKRE19, BS16, CE01, CCB+18, GY02, KLJ+09, LP02, Ste98, WSD+13, WBP07, WCB+12, ZSTR07]. **Terrain-like** [BS16]. **Territorial** [vGMSW15].
Tessellated [SPM+13]. **Tessellation** [LSPW12, RLW+11, YW16]. **Test** [JCWD14, KWP01, KYK11, LKK17, SVAC12]. **Testbed** [KMSB14]. **Testing** [WM19]. **Tests** [HFMC12, WLSW08].
Tetrahedra [SCT06]. **Tetrahedral** [BLW14, CDM+04, GW06, GH95, KL96, KTCG17, LHBF19, NJ99, THJ99, VCL+07, WFKH07, ZG06, ZCW19].
Tetrahedralization [Mal05]. **Text** [AMJ+12, BLE19, CSL+10, CLC+15, CG08, CLT+11, CLWW14, DFG+14, DYW+13, FPB17, FBM16, GUFM15, GBWI17, HKBE12, KJW+14, LB19, LYW+16, LWC+19, LYK+12, PKL+18, SOK+16a, SOK+16b, SSBC19, XLZ+19a, XLZ+19b, YFZ+18, vHWV09]. **TextFlow** [CLT+11].
Textile [ZCF+19]. **Texton** [War09]. **Texts** [BW17]. **TextTile** [FPB17]. **Textural** [HLYL18]. **Texture** [BW08a, BJEYLW01, BMR01, BBK07, CJR07, CR08, CDR+18, DT10, DWK+16, EWWL98, FST+14, GIS03, GO15, GK95, HAT+00, HPC+13, HDJ05, IFP97, JWD+14, KSNY17, KHSI04, KBH13, LLPP19, LYY08, LGY19, LHZ+04, LJWF12, MZX15, PS12, RB07, SLW+10, WWYS04, WEE03, WSE07, WDC08, YNBH11, YLY+12, ZDW+05, ZKK02].
Texture-Aware [DWK+16].
Texture-Based [HPC+13, WEE03, WSE07, CJR07, CR08].
Texture-Mapped [PS12]. **Textured** [APS+14, IYS13, UBH19]. **Textureless** [SPP+14]. **Textures** [BS16, HE99, HHM14, JEH02, KXW+18, LA11, Ney98, QY07, Sel15, TDN+12, WWY14]. **Texturing** [BHW06, BH07, BMPB08, CDK04, DHM13b, FH06, KAK+07, MNZ+15, RDB+12].
Thaumatrope [SC15]. **Theatres** [LLKN17]. **Their** [HQ13, MSvG+11, OHJ+11, YLZ+13, BOZ+14, BLG+16, FNM13, PFP+11].
Thematic [CH17, HHWN02, VJN+15].
Theme [Nie95, Nie96]. **ThemeDelta** [GJG+15]. **ThemeRiver** [HHWN02].
Theoretic [CGJM19, XLS10, CJ10].
Theoretical [BTS+18, CFEC17, LNS08].
Theory [BEJK12, DPW+15, Kei00, LLT04, MY96, NBM19, SJL+18a, STS10, SZHR11, TTR10, VFR13, ZWJZ12]. **Therapy** [MMB+19, ZZSS10]. **There** [WWZ+18].
Thermal [KJH+18, SGAS16].
ThermalPlot [SGAS16]. **Thermo** [IAS19].
Thermo-Visual [IAS19]. **Thermoforming** [ZTZ17]. **Thickness** [GLH+14, LGV+16].
Thin [ELF13, GLB+06, GQGP17, HNR+06, SH12, VAW+17, WKZL04, YNYH06, ZQS11].
Thin-Shell [GLB+06, ZQS11]. **Thinker** [RKKF19]. **Thinking** [WCR+11]. **Thinning** [IYK01]. **Third** [Kas12]. **Thomas** [EDK10].
Those [RJD+07]. **Thousands** [WLMP19].

NWI17, NSW+17, Ney98, NW10, NHN07, NT03, OHJ+11, OK11, PBN+13, PPT+11, PKL+18, PvdBC+11, PPZ+12, PW13, PGU12, QCT13, RNL09, RBK+19, RS12, RvWT08, RNK+15, RML12, Rob98, RHR16, RRJH18, RNE+17, RL08, SCT06, SLGM09, SM09, SMO+13, SE18, SSIF09, SG09]. **Using** [SBSG06, SW13, SXX+19, SLG+17, SR00, SK00, SLMA06, SRKL19, SB14, SGAS16, STH03, SRMOW11, SC15, SAC+08, SRML09, TKTN09, TCYM09, TIW+19, TTR10, TN13, TWMZ19, TZL+12, TWSM+11, TRd12, TLC+10, VP09, VFR13, VJC09, WFM+05, WDC+18, WLL+05, WGS07a, WL08, WC09, WC10, WCZ+11, WFS+16, WLHD17, WCJ06, Wen14, WBH04, WJR+13, WHM14, WM19, XNT11, XF04, XA10, XYGL13, XLC+18, XLZ+19a, XLZ19c, YHMY08, YBZW14, YKL+08, YSD+17, YWV+19, YCLJ12, YLSL11, YCLL08, YLG+14, YFZ+18, YON06, YCHZ12, YGFX19, ZMG+10, ZC03, ZDL03, ZPS04, ZK07, ZCL08, ZZC11, ZHX+11, ZDM13, ZGW+14, ZK14a, ZWZD15, ZFSL19, ZDZ18, ZGI+18, ZC06, ZJH07, ZT09, ZKK02, ZWBH13, ZHGH11, vPVvdW10, vRKEE17, AMB+13, BMJK09, BL15, DMS+08, EDF08, GHA+08, HKG07, HBF08, HHG14, IBJ+14, JR07, JKRY12, JQD+08, KTC+19, KGP+13, LCM07, LYL19, LPK+13, LPCRH19, LWP+06]. **using** [MSE+06, MGB+19, NBM19, NTT+19, RBN+19, SHM10, SJ06, SFL+16, TS07, UBH19, XLZ+19b, YEB16, YLC+19, ZSG+13, vPBB+10]. **Usual** [NTA+19]. **Utero** [MMK+17]. **Utility** [WCC+18, ZYM+14]. **Utility-Aware** [WCC+18]. **Utilizing** [HFM16, ME09, NO97]. **UTOPIAN** [CLRP13].

VA [BJK+16]. **VAET** [XCH+14]. **VAICo** [SGB13]. **VAiRoma** [CDW+16]. **Validating** [MP13]. **Validation** [JPD+18, LBS13, Mun09, USKD12, YDC+14, ZBG+17]. **Validations** [MF11, QH18]. **Valley** [OMD+12]. **Value** [GCNF13, KHDL07, WAM+19, YHW+07]. **Value-Cell** [KHDL07]. **Value-Driven** [WAM+19]. **Valued** [GK95, GPP+16]. **Values** [Zag96]. **Valve** [BSR+14]. **Variability** [AAGS19, FFST19, FBW16, HSSK16, JBMS09, KBL19, PMW13]. **Variable** [BBIF12, FC95, GABJ07, JH16, MCP+06]. **Variable-Speed** [FC95]. **Variables** [AT16, BI12, GDST16, GHL15]. **Variance** [BGOJ16]. **Variant** [FNM13]. **Variants** [FNM13]. **Variate** [LD11a, WS06b, YXG+10]. **Variation** [GQM+18, HHZH17, ZWZD15]. **Variational** [BS08, CYC+12, ZWZD15]. **Variations** [LG12, RKC+16]. **Variety** [DSP+17]. **Varifocal** [DTT+17, RWF19]. **VarifocalReader** [KJW+14]. **Varying** [Ano14h, AM13, BRT12, BLLS17, CKW+12, CLC+15, CMP14, DB07, FWSL12, GABJ08, GSDJ04, GW11, GWP+16, Har16, HE06, JEG12, JS06, JY17, KBD+11, KLySK12, KGJ09, KG06, LLL+12, LS09, LMC02, MVN+19, NJ99, OBJ16, PSR17, RBDG15, SK16b, SK98, SB06, SSR+07, SH00b, TIW+19, WFKH07, WYM08, WC09, WC10, WCJ06, WS06b, YLK12, CJR07, DS16b, KC14, NSW+17]. **VASA** [KZX+14]. **Vascular** [KOCC14, KGPS13, RHD+06, WJR+13, JQD+08]. **VAST** [Ano12g, Ert10c, MW13, vW11, Ano16u, Ano18h, Ano18i, Ano18j, Ano19l]. **VAUD** [CHW+18]. **VDR** [YSGM05]. **VDVR** [ZXM10]. **Vector** [AJDL08, BW08a, CML+07, CMLZ08, CKW+12, CM02, CLB+16, DANS10, DPR00, DNP07, ES05, FBW16, FCL09, GPR+01, GKT+08, Hau97, HEWK03, HA04, HE06, HLD+08, LKJ+05, LJL04, LVRL06, LCS06, LTWH08, LHFY12, LFR03, MBS+04, MCHM10, MK13b, NJ99, NLS11, PGL+12,

RLH11, RLK19, RT12, SKMR98, SB04, SLB04, SWCR15, SRW+16, SBW17, SZ12, SS13b, TWHS05, USE13, WASQ18, WT10a, WJE01, WGS07b, WPL96, ZBG+17]. **Vector-Based** [CLB+16]. **Vectorial** [IHR01]. **Vectorization** [YCZ+16, YHL+17]. **Vectorized** [HXF+15, SGM08]. **Vectorizing** [ZCZ+09]. **VectorLens** [DMC15]. **Vectors** [BHB04, FPH+08, JCWD14, ONL+12, VP09]. **VEEVVIE** [PGK16]. **Vega** [SRHH16, SMWH17]. **Vega-Lite** [SMWH17]. **Vehicle** [ZHLR14]. **Vehicular** [FCZ15]. **velle** [SB17]. **Velocity** [CS08, NSE+12, PT17, YNBH11]. **Velocity-Aligned** [CS08]. **Velocity-Dependent** [NSE+12]. **Venant** [RLK19]. **Venn** [Wil12]. **Ventricular** [HTP+08]. **VERAM** [CZZ+19]. **Vergence** [Kra16, XGS+19]. **Vergence-Accommodation** [Kra16]. **Verifiable** [ESN+09, ZXM10]. **Verification** [EGG+12, ENS+12, GRVE07, HAGS16]. **Verifying** [EJR+14]. **Verisimilitude** [Yon14]. **Versatile** [HWW18, LDC96, PBO+14, SR17, YLX+12]. **Version** [CMFL16]. **Versus** [Chi16, HSKIH07, DFG+14, GLM+17, KYT+18, PTM+18]. **Vertex** [CM02, KXW+18, LY06]. **Vertically** [SM11]. **Vertices** [FPH+08]. **Very** [IV11, KPR+15]. **Vessel** [AMB+13, LLL+12, MVB+17, RHR+09, JQD+08]. **VGTC** [Ano12h, Ano13j, Ano13k, Ano13c, Ano13e, Ano13d, Ano13f, Ano14l, Ano15c, Ano16k, Ano16l, Ano16d, Ano16e, Meh17, Sil17a, Sil17b, Sil18a, Sil18b, Sil19]. **Via** [GQM+18, ADDG12, BYA15, BMS17, BDD+16, BMW17, BSV11, BHSH15, CGL+17, CWT+08, CYB08, DZMQ16, DT10, Elb95, GMD+16, GSCI15, GNDV+18, GGZ+18, HKYM17, IFP97, JKM01, KCPE16, LYY+16a, LS13b, LL14, LGY19, LLL+19a, LSY+18, LFW+19, MSA17, NXSL13, OKSK16, PSKN06, PKL+18, PW12, RB07, RB18, SSV18, SSW18, TC09a, TW18, WWB+13, WSYM17, WGZ+19, WHX+19, WAG+12, WMA+16, WS09, WPZ+11, YHLJ08, YYFX18, ZHZ15, ZWC+16, ZNZX16, ZCL+19, ZWLC19, ZCW19, ZKK02, vdEvW14, vLBR+16]. **Vials** [SAB+16]. **ViBr** [CXDR19]. **Vibrotactile** [LBHW18, dJOBNM17, UBH19]. **Video** [Ano14h, BGCS17, BC18a, BBS+08, CBH+06, CCL+16, CRH05, DFG+14, DTW+15, FH06, FR13, GSPJ08, HB14, HKH+12, KH19, KBD+11, KCWI13, LHJ+18, LCP+13, LPS+13, LGYG12, LLY+13, LDX10, LZW+13, LXT18, MI13, MFZ+17, NXSL13, OH12, PLC+11b, PZ07, PWG17, Rob98, RSSA08, RG95, SJL+18b, SBE+15, SJK+12, TT05, TUG17, WBK+08, WLHL13, WLT+18b, WLH+12, YLK12, ZHQ+07, ZNZX16, ZLK+18, ZZH19, SKC+19]. **Video-Based** [FR13, ZLK+18]. **VideoPlus** [Tay02]. **Videos** [ARL+17, LYL19, RPAC17, SZN+18, WKCB07, WBK+08, WCW+16, ZDJ+09]. **ViDX** [XMRC17]. **View** [AS98, BH07, BSEN18, BNTM16, CZZ+19, CLW18, DTT+17, EHH+19, FNM13, GLRH13, GR15, GY02, HSH10, IYS13, JS06, KLMA10, KERC09, KNO15, KKSM19, KOK+19, LZZ+19, LP02, MS18a, MCHM10, MGJ+10, MTB17, MSM+11, PD04, PBK+12, RBK+15, SM09, SOS+17, TEC+16, TLS17, Wah14, WC09, WC10, WKME03, YSGM05, ZEC08, Zhu05]. **View-Dependent** [GLRH13, GY02, HSH10, KNO15, KKSM19, LP02, MCHM10, PD04, TEC+16, TLS17, WC09, WC10, YSGM05, ZEC08, Zhu05]. **View-Enhanced** [CZZ+19]. **View-Independent** [SM09, WKME03]. **Viewable** [OHH06]. **Viewing** [BHW06, IDW+13, KBKG07, LH11, LLKN17, LDN11, LODI16, LSK+18,

TKTN09, TUG17, vWN04]. **Viewings** [RCW+18]. **Viewpoint** [HWZ+19, IAIK16, JNC+15, LPS+13, LDX10, TMWS13]. **Viewpoint-Dependent** [IAIK16]. **Views** [BBH+17, BBD06, BG06, CMP09, ČB19, GKN05, HTC09, LBD13, LKD19, Lin16b, QH18, SZY+18, WWZ+19, Wea10, WAG06, ZAM11, vW06, vdEHBvW14]. **VIGOR** [PHE+18]. **Virtual** [ANR+18, AGN+19, Ano12e, Ano14j, Ano14d, Ano14e, Ano15c, Ano16d, Ano16e, AM13, AS11, BGC+11, Bai13, BB07, BZS+13, BAP+17, BTB+04, Bil13, BL15, BPS13, BDH+18, BIPS12, BSWL12, BRNB19, BLRW05, BC18b, CPG+15, CWL12, CDAF18, CLL08, CGJM19, CPK+05, CRI06, CVC+12, COMP13, CWC+06, CMPC06, CLS13a, DS17a, DS18a, DV95, DJK+06, DL12, DRHK07, DDBR+19, DDKA06, ERL+13, ESV98, FWK16, FS14, FBI07, Fuc13, GLM+17, GPL+13, Ger17, GWP+18, HK10, HBJP12, HSR18, HWHK16, HSR13b, HHCL01, HMT10, HSH04, HLRC+12, HBT14, HK16, HR11, ILMH12, INCB18, JBS+18, JAAL18, JOR+19, JPD+18, JAM+14, JSB13, JHBK19, JWL05, KJH+18, KHSS14, KBS13, KPBL16, KCT+17, KKL11, KYT+18, KKPS08, LPG+18, LKS+19, LKC09b, LYS+10, LBHW18, LLQ+17, LLL+19a, LSCN09, LIM+12, LBS+16, LvL12, LWP+06]. **Virtual** [LDR00, MWCR06, MYI13, MBZB12, MRG+15, Meh17, MZS+19, MGO+19, MF11, MLS18, MT01, NMN+18, NBM19, NWF+05, NSN14, NTS11, NSS03, NTT+19, OBKP18, OBS+15, OIR+17, PFW09, PWHK16, PBK+12, PKG12, PB16, PMT+19, PGI+17, RBK+15, RSBB17, RJD+07, RBK+19, RCW+18, RZP+07, RGFLL14, RKA+13, RCL+15, RFSP19, Ros13, SGQ16, Sat13, SSI99, Sch13, Seq12, SL08, SMP17, SvLF10, SGJM18, SLMA06, SSL08, SFL+16, SBHW11, SB14, SEB19, SAC+08, SFR+10, SLF+12, TMDO15, TMM+13, TL11, TWMZ19, TYL+18, UK12, UKF+18, VSS08, VBC+16, Wah14, WGR+18, WXJD17, WLW17, WKW06, WGC+08, WRHR19, WBA+14, YQK+17, YAE07, YFZ+18, ZLB+05, ZK17, ZBB+06, ZHF+19, ZKM18, vPBB+11, vTRvdM97, SL11]. **Virtual-Reality** [DJK+06]. **Virtuality** [RRD+13]. **Virtualized** [SvdBLM11, SRKL19]. **VIS** [GCML06, IHK+17, Ano09e, Ano13v, Ano13t, Ano13u, Ano14o, Ano14s, Ano14t, Ano14u, Ano14v, Ano16p, Ano16v, Ano16w, Ano16x, Ano17p, Ano18k, Ano19m, LB19, Ano09d, OSS+17, RSSA08, SGB+19]. **Vis-A-Ware** [OSS+17]. **VIS-STAMP** [GCML06]. **Vis4Heritage** [KLYE13]. **VIS4ML** [SKKC19]. **VisBricks** [LSS+11]. **VisComplete** [Koo08]. **Viscous** [BK17, LBS+19, PT17]. **VisDock** [CPW+15]. **VisFlow** [YS17]. **VisGets** [DCCW08]. **Visibility** [CICS05, COCSD03, CF10, CMSW04, CM11, Dac11, FWT+04, HXF+15, KS01, KJL+12, KKCS98, LRP97, LSS13, ME18, MAST16, OSS+17, PPZ+12, Ste98, WC13, ZZBW08, vRKEE17]. **Visibility-Aware** [OSS+17]. **Visibility-Driven** [CM11, ZZBW08]. **VisibilityCluster** [WC13]. **Visible** [IIS14, KS00a, KS00b, MCP+06, TSB+05]. **Vision** [CK16, CWC+06, DH08, EIKS18, MOF09, MOF10, OTKS15, RSSA08, DMAM19, SS95]. **Vision-Based** [DH08]. **Visiting** [GB08a]. **Visitor** [LWD+17]. **Visitors** [MLMF12]. **ViSizer** [WLLM13]. **ViSlang** [RBGH14]. **VisLink** [CC07]. **VisMashup** [SLA+09]. **VisMatchmaker** [LWZQ17]. **VisOHC** [KKL+16]. **Vispedia** [CWT+08]. **Visplause** [ASMP17]. **Vispubdata.org** [IHK+17]. **VisTiles** [LHD18]. **Vistrates** [BMR+19]. **Visual** [AHSS14, AJDL08, AABH+16, AMM+08, AAMG12, AAMH13, AHH+14, AHRG10,

AABW12, ABC+19, Ano12g, ASMP17, AERA14, AIS18, BW14, BDF16, BBD+11, BTC13, BKW16, BSS+19, BMLC19, BHZ+18, BAAK+13, BI12, BBG+09, BJK+16, BAF+13, BARM+12, BSEN18, BPM+13, BBIF12, BDD+16, BISM14, BC12, BŠG+09, BM10, BSWL12, CDDS18, CGSQ11, CWZ+14, CSL+16, CLG16, CLZ+18, CD19, CGM+17, CWT+08, CBH+06, CCM+14, CYW+16, CCL+16, CXR18, CHW+18, CVG13, CDF14, CDW+16, CORLS96, CMPC06, CLB11, CCM12, CFEC17, DVP+18, DLW+17, DSG+17, DGWC10, DDBR+19, DR08, ERLW18, Eic00, EASS+18, EASD+19, EDF08, ERHRF10, EDF11, EGG+12, Ert10c, EBB+15, FHKM17, FKLT10, FPV+13, FMH08, FHG+09, FZCQ17, FWG09, FBM16, GFG+14, GBPW10, GKL+13, GJZ+12, GS14, GHL18, GLG+13, GS06, GRVE07, GBFM16, GHL15, GXZ+18, GJG+19, GDKB17, HSCW13, HWHK16]. **Visual** [HEFR18, HSR13a, HKR+08, HE12, HKBE12, HHKE16, HEG+17, HLRC+12, HBW14, HKPC19, HFG+12, HMZ+14, HPvU+18, HSTD18, HTA+15, HZM+16, HAS11, HOGJ13, HVF13, HJC14, IDA+14, IFP+12, IAS19, JER16, JBMS09, JFS16, JAO+14, JE13, JSR+19, JYC+10, KAKC18, KTC+19, KGS+08, aKGS11, aKS12, KLYE13, KBE+18, KNR17, KLM+08, KMDH11, KH13, Kei02, KRTvW06, KHS+19, KV08, KLK+09, KKP+17, KOJL+14, KBGE11, KJW+14, KDM+16, KMG+06, KBH06, KSDD14, KFS+19, KPS16, KS02, KTE15, KSBE18, KG06, KRRW19, KW13, KHSW17, KKL+16, KEV+18, KCK+19b, LSSB12, LBS13, LMK07, LHD18, LRM+13, LCP+13, LGM+18, LBK+18, LXC+17, LWCC18, LLB+06, Lin16b, LSS09, LS10, LH14, LS16, LYW+16, LWL+17, LDM+18, LXL+18, LBT+18, LLL+19b, LGS12, DSC+16, LFA+16, LDFZ14, LWLM18, LFW+19, MWSJ14, MRO+12, MRH+10, MPK+13, MHS07, MEV+14, MRSS+13, MMT+14, MWCR06, MKN+07]. **Visual** [MMH+13, MPWG12, MGJH08, MGKH09, MGJ+10, MGS+14, MES+11, MGB+19, MBH+12, MPOW17, MW13, MAAB+18, MGM09, MZC+16, MTRP10, NHB+17, NHEM17, NSN14, NA19, OJ15, OBJ16, OSSK12, ODH+07, OJEF19, PBN+13, PSSC17, PFP+11, PSPM15, PSTW+17, PGK16, PKL+18, PGU+13, PVF13, PQF+09, PLvdM+17, PHV+18, PHE+18, PTMB09, PDW+14, PSM12, PB16, POM+09, PV06, QPNK18, QCX+07, RBK+15, RWF+13, RFLL18, RLA+13, RNE+17, RM15, SSS+14, SSK+16, SZS+17, SKKC19, SKBE17, SNLD06, SSEW19, SGB13, SZK15, SHB+14, SW13, SMER06, SWY+17, SZY+18, SBB+18, SPN+16, SKU+12, SYS+06, SLK+17b, SLMA06, SS18, SWS+11, SPG14, SSL+12, SGPR18, SGB+19, SWL+14b, TAE+11, TKE16, TBHC16, TvET14, TFJ12, TWSM+11, TSD09, TFH11, TLLH12, TSH+14, USKD12, UDSL18, Vas16, VJC09, VN19, WSH+19, WSD+13, WDC+18, WCR+11, WS06a, WK13, WZvdW13]. **Visual** [WYL+14, WM16, WFW+17, WGYS18, WCC+18, WGZ+19, WGSY19, WCC+19, WLS+19, WHLS19, WV08, Wea09, Wea10, WFG+19, WCR+18, WAG06, WFM+06, WFC+06, WDSC07, WXC+08, WCQ+09, WLY+14, WPZ+16, WXZ+16, XCH+14, XZM17, XXM19a, XWW+13, XMRC17, XXM+19b, YYR17, YHW+07, YSD+17, YDC+14, YRWG13, ZMH+09, ZYM+14, ZMZM15, ZM17, ZHF+07, ZCW+14, ZSCC18, ZWC+18, ZWLC19, ZMT+19, ZK08, dOL03, vW11, vdEHBV16, vLBR+16, LSC08]. **Visual-Interactive** [BHZ+18]. **Visualisation** [ED07, GMD+17, KKC15, YDGM17]. **Visualization** [AvHK06, AL06, AJDL08, AMJ+12, AZM12, AD12, AJ17, ADG11, ALBR16, AHK+17, ARB07, ARRC11, AHKMF11, AR17, AWC10, AH11, Ano10c,

Ano10d, Ano11i, Ano11c, Ano11d, Ano12h, Ano13j, Ano13k, Ano13c, Ano13e, Ano13d, Ano13f, Ano14c, Ano14j, Ano14k, Ano14l, Ano14g, Ano14f, Ano15a, Ano16f, Ano16a, Ano16k, Ano16l, Ano16b, Ano16c, Ano17e, Ano18a, Ano18b, Ano19a, Ano19f, APS+14, AB01, ASE16, AMB+13, BRH+17, BW08a, BFE15, BRT12, BB07, BCH+13, BE18, BKDE00, BGOJ16, BMWM06, BI12, BJB+12, BWW+17, BZGV14, BLLS17, BVW+07, BAB+18, BBB+19, BSL+12, BJA+19, BARM+12, BYB+13, BVB+13, BBK+16, BSR+14, BH09, BBS+08, BSL+14, BEJK12, BRBF14, BEDF16, BHTY15, BVPtHR09, BM13, BE09, BPS+11, BIRW19, BGM+17, BMW17, BFTW09, BvL06, BVB+11, BTJ+13, BAW16]. **Visualization** [CR08, CDC+07, CSL+10, CFM+13, CCH14, Car19, CZ11, COJ15, CWK+07, CBH+06, CYB08, CWDH09, CJ10, CCAL12, CZC+15, CG16, CGJM19, CCJ+19, CDL+16, CLC+15, CRI06, CCQ+14, CPW+15, CFHH09, CMPS97, CDM+04, CvW11, CDF09, CW11, CSC06, CM09, CDM+06, CRB+05, CZQ+08, CRPH10, CMP14, DK11a, DPW+15, DSSK08, DBM+06, DDW14, DBH14, DZMQ16, DFQ12, DDGL07, DGBW09, DBW11, DPR00, Dil17, DBD17, DK11b, DLR09, DTW+15, DWBR06, DHR+19, DCH+17, DRMM13, DB07, DWS10, ES01, Ebe17, EGH+06, EDF08, ET08, EF10, EHP+11, EMdSP+15, ESN+09, FYTL19, FWD+17, FPB17, FKRW17, FCL09, FC95, FSE12, FSME14, FTES13, FH07, FH16, FM04, GGTH07, GJ10, GNBP11, GLvP+12, GGJ+18, GLH+14, GHGM06, GNSP+14, GJC+17, GDJ+13, GLK+13, GSWD18, GABJ07, GABJ08, GGA+11, GWE+19, GHL18, GTS10, GTS11, GRS95, GMM05]. **Visualization** [GK95, GBM+12, GKM+15, GY02, GST16, GCML06, Guo09, GMY11, GXY12, GGZL16, GLX+18, GHS+19, GKK+12, HBJP12, Hag98, HHO+17, HVY16, Han16, Han18, HM95, HHB16, HW12, HKQ13, HE99, HKR+08, HE12, HD12, HA06b, HMSA08, HB10, Hee18, HP04, HSF+06, HA04, HPAW07, HFM07, HMM00, HSSK16, HBAB14, HSC08, HLNW11, HKB+19, HKH+12, Hol06, HZH14, HNR+06, HPC+13, HTA+15, HD11, HDR+13, HQC+19, HEF+14, IPD+07, IG19, IC07, IDW+13, IIC+13, IHK+17, IIS+17, IYIK04, INCB18, JHKH13, JEG12, JWSK07, JBS08, JHH+10, JKM01, JKM06, JKJTM06, JKMG07, JFTW07, JBH+09, JPLŠ16, JHGH08, JEH02, JCG08, JH09, KMS09, KPHH12, KSG+16, KCJ+10, KHE09, KAM+08, KERC09, KH13, Kei00, Kei02, KHS+18, KOJC12, KOCC14, KGD+19, KKSS13, KV06, KZD+10, KJW+18, KRH18, KW06, KS14b, KCS+16]. **Visualization** [KAK+18, KWDG11, KBH+10, KBVH17, Koo08, KW19, KLL12, KK19, KGJ09, KBE09, KKKW05, KSW06, KHH+16, KMLM16, KCM18, LBS14, LKJ+05, Lam08, LBI+12, LS07a, LVRH07, LCMH09, LvWJH04, LHH+12, LLL+12, LB19, LGV+16, LTPH17, LS09, LIRC12, LSS13, LKH+16, LKK17, LKHW04, LLT04, LSS+11, LGS+14, LDC96, LLL06, LTWH08, LBH18, LDN11, LBH11, LBLH19, LP02, LLRR08, LLCD11, LNS08, LS10, LCS+12, LST+16, LBR+17, LWC+19, LDA12, LPK+16, LTP+05, LWL14, LSM03, LLPY07, LRF+11, LLCM12, MLMF12, ME19, MRO+12, MKHD05, MB03, MB19a, MHG10, MDL07, MGL07, Mar18, MK16, MCK12, MHD+18, MAK08, ME09, MMAM14, McK09, MGM19, MI13, MJK06, MSW+08, MMYK06, MSE+06, MRS+13, MVB+17, MSSD+08, MNKW07, MDS+18, MQF06, MiS+18, MTW+12, Moo03, MMCE09, ME11b, Mor13, MWN+19, MHDG11, MGW10, Mun09, NMGK17, NGK18, NW15, NDM+97]. **Visualization** [NJB07, NLKH12, NKH14, NSW+17, NKHC08, NZ06, Nie95, Nie96, NSL19, NOB16, NSvW11, NH06, NASK18,

IBJ+14, IWSK07, JHP+14, JM10, JCRS09, KIL07, KHA12, KHDL07, KLC08, KRH18, KBI+18, KSSW09, KM96, KTB+18, LMZ06, LLB+12, LAK+11, LRKC10, LPK+13, LFLH07, LFH08, LMW+17, LPCRH19, MRSS+12, MKH12, MLCM16, MQB19, NSH+18, NJBJ09, NGCL19, OHWS13, PFK07, PMW13, RFFT17, RSOW18, RKKF19, RSSA08, RM13, SSMG13, STM17, STS06, SBV+11, SKMR98, SBM+06, SK98, SWL+14a, SW97, STM08, SGAS16, SAB+16, Sun03, TRd12, TTS10, TS07, VRW13, VBW16, VvWvdL06, WHZ+18, Wil18, WPL96, WSW+18, WYM12, WXW+19, XCZ+19a, ZFA+14, ZDL03].

Visualizing [ZCL09, ZWJZ12, ZWR14, vLdL03].

Visually [DYW+13, GdBG12, LKC09b, LYK+12, MOC+14, PGSF16, PIS15, QM16, WCS+18, YLZ+13].

Visuo [CGB+13, EPS+15].

Visuo-Haptic [CGB+13, EPS+15].

VisWeek [Ano12q, Cox11, Cze12, Fra12, Heg10, Sza10, Tha11].

Vivaldi [CCQ+14].

Viz [RSSA08].

Viz-A-Vis [RSSA08].

VizItCards [HA17].

VLAT [LKK17].

vLOD [CPK+05].

Vocabulary [IHD+18, TWSS16].

Voila [CLZ+18].

Vol [Ano14c, Ano15a, Ano16f, Ano16a, Ano18a, Ano19a, SB17].

Volume [AWC10, ASW13, AD16, AZD17, AGDJ10, Ano09b, BRSP18, BLM96, BLL19, BMTD05, BMWM06, BHWB07, BPL+19, BJNN98, BG06, BGKG06, BKW08, CR08, CICS05, CBPS06, CQC+08, CWM+09a, CYZ+09, CCB11, CCJ+19, CCQ+14, CMPS97, CDM+04, CHF95, CHF96, CML+12, CMSW04, CSC06, CM08, CM09, CHM11, Csé08, DSP+17, EMRY02, EJR+14, FM07, FM12a, FM12b, FAW10, FE17, FH16, FMST96, GMD+16, GMS+07, GHGM06, GAMD10, Guo95, GMY11, GXY12, GWK12, HLRS+08, HBJP12, HAAB+18, HBG11, HWHK16, HMBG01, HLM10, HA04, HLY10, HHM14, HBC12, HZM13, HZH14, IZM18, ISC07, IYK01, JNK19, JV09, JH09, JKRY12, KSH03, KOCC14, KKSS13, KWP01, KV06, KMKY10, KWH00, KISE14, KHM+98, KKH02, KPH+03, KHPS07, KHW+09, KJL+12, KWH19, KKPS08, LBG+16, Lac96, LSSB12, LBS13, LBS14, LCMH09, LGM+08, LYS+10, LS13a].

Volume [LR11, LLRR08, LCDP13, LWP+06, LTP+05, LMC02, LLY06, LLPY07, MB18a, MDM10, Max95a, MB18b, MAWM11, MHDG11, Mur95, NKH14, NJ16, NvdVS00, PMP10, PPL+99, PK16, PHF07, PFK+08, PRH10, RSB96, RBG07, RPSC99, RLNN11, RE01b, RDB+12, RL08, RZNS04, SE17, SWB+00, SYM14, SM17, SMP11, SE18, Sel15, SZN+18, SRM19, SKMH14, SHC+09, SK00, SB17, SYR11, SGM+11, TLD+12, TIW+19, TCM10, TLM05, VKG05, WS06a, WGS07a, WM08, WCZ+11, WWLM11, WK13, WDC+07, WEE03, WFG+19, WKZL04, WMS98, WQ07, WKI+17, XTY+11, YESK95, YLX+12, YFC+19, YL95, YNCP06, ZM13, ZDM13, ZXM10, ZAM11, ZWM13, vPVvdW10].

Volume-Accurate [AGDJ10].

Volume-Based [PMP10].

Volume-Enhanced [YFC+19].

Volume-Preserving [HZH14, RSB96].

Volume-to-Volume [FE17].

Volumes [BMA+19, CMCL06, EMRY02, FG99, HBAB14, HK99, IVJ12, JS06, KCOY03, KSTE06, Mao96, MWK+08, SMG+13, SKMH14, Sil95, WFKH07, WD10, WFG+19, vRKEE17].

Volumetric [ASDW14, BKRE19, BAAK+13, BKS01, BS02, BG07, EM06, FMST96, GWBO12, GW11, GWP+16, HRN+03, JFTW07, JFY16, JY17, KPR+15, KKSS13, LLWQ13, ME18, MWCE09, MK09, MMCE09, MNC14, Ney98, NT03, OKI15, PCY08, QXF+07, RWBF18, SFA+15, SNM16, SE18, SBSG06, SLK+17b, SH12, SEA09, WZQK04, WLL+12, WSE07, WGC+08, WMGE12, XYGL13, ZZSS10, ZT99, TGSP09, THT19].

Wheeled [LPF+19]. **Where** [AJ17, SS19]. **Which** [RZP12]. **While** [Ger17, KDX+12]. **Whisper** [BS11, CLS+12]. **White** [EBB+15, JFTW07, MSE+06, SAM+05, ZCL08]. **White-Matter** [ZCL08]. **Whiteboards** [WCR+11, WLJ+12]. **Who** [DR08, SBS16]. **Whole** [PFK07, RE14, WWFT03]. **Whole-Brain** [PFK07]. **Wide** [BJA+19, DTT+17, KOK+19, MSM+11, NZS+17]. **Wide-Baseline** [NZS+17]. **Wide-Field** [BJA+19]. **Wide-View** [MSM+11]. **Widening** [LSK+18]. **Widgets** [WHA07]. **Wijk** [Ano13t]. **Wiki** [McK09]. **Wiki-based** [McK09]. **Wikipedia** [CWT+08]. **Wild** [SFL+16]. **Wildcard** [RGP+12]. **Wilhelms** [Bar05]. **Wilkinson** [TLH10]. **Will** [YN03]. **WIM** [CML+12, LFH06]. **Wind** [KFL+15, SOL+13]. **Windowed** [SJB10]. **Wires** [SLNB11]. **Wise** [SWF+16, ZCW19]. **Wisp** [CK05a]. **within** [DMC15, KBL19, MBT07, OKB+19, WKZL04, XHF12]. **without** [CMF+18, Gor02, KJW+18, LSC08, WYL+19]. **Wolfgang** [Han95]. **Word** [BW17, BMS17, CLC+15, FFB18, GWFI14, GBWI17, LBT+18, PKL+18, WCB+18, WV08]. **Word-Scale** [GWFI14, GBWI17]. **Word-Sized** [BW17]. **WORDGRAPH** [RGP+12]. **Wordle** [KLKS10, VWF09]. **Workflow** [IG19, MRSS+13]. **Workflows** [BNTM16, MRSS+12, PWHK16]. **Working** [PDBG18]. **Works** [CQM10]. **Workshops** [KGD+19]. **Workspace** [LLL+19a]. **Workspaces** [CVC+12]. **World** [CDAF18, DBN06, HBT14, LAM10, NOB16, SLM18, VAB12, WFR+10, WFM+12, vFWTS08, RPHI08]. **Worldmapper** [DBN06]. **Worlds** [Bai13]. **Worn** [DFG+14, CPW+18]. **Would** [KCM18]. **Woven** [SZK15, ZBZ+13]. **Wrinkle** [JFZ+18]. **Wrinkle-Aware** [JFZ+18]. **Wrinkles** [ZBO13]. **Writings** [OSSK12]. **Wrong** [PBK+12]. **Ws** [ZWA+13]. **WYDIWYG** [WM13a]. **WYSIWYG** [GMY11, KWL14]. **WYSIWYP** [WVFH12].

X [AHR+11, ERL+13]. **X-ray** [AHR+11, ERL+13]. **XCT** [RGK+13]. **XPLORE** [BHGK14]. **xR** [IPJT19].

Yarn [CLMO17]. **Yarn-Level** [CLMO17]. **York** [FPV+13]. **Younger** [JBS+18]. **You've** [DBN06].

Zeitgebers [SBS16]. **Zero** [KHLM17]. **Zero-Waste** [KHLM17]. **Zometool** [ZK14b]. **Zone** [RKSH11]. **Zoom** [BGR06]. **Zoomable** [BL07]. **Zooming** [JE13, MOC+14, QWC+09, RN19, SLQW17]. **Zwart** [EM06].

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