## Index

2D Graphic, 12 3D Animation, 12 3D Mouse, 14 3D Warehouse, 7-9, 121, 169, 179-180, 242-243, 248, 251 Add Location, 49 Addy, Duane, 315, 317 Animation, 12, 37, 224, 271, 317-318, 322-324, 327, 329-330 Arc Tool. See Geometry Assemblies, 73-77, 100, 108, 110-111, 188, 197-199, 229, 292, 293-294 Associated Costs, 290-291 Attributes, 275–285 Area, 18, 23, 61, 212, 217, 276, 279-283, 289-299 Length, 16-21, 276-280, 290-292, 295-296 Volume, 23, 25, 47, 56, 73, 258-259, 282-283, 285, 291-292 Augmented Reality, 328-331 Axes, 12, 42, 225 Basement. See Foundations

Bath Accessories, 251 Bathrooms, 244–251 BIM, Building Information Modeling, 3 Brightman, Michael, 37–38, 309, 323

Cabinetry. See Kitchens Camera Menu Look Around, 14 Orbit, 13 Pan, 13 Parallel Projection, 14, 34, 59 Perspective, 14, 59 Position Camera, 14 Standard Views, 14, 307 Walk, 14 Zoom, 13 Carpet. See Floor Coverings Case Study, Roof, 167–168 Case Study, Stairs, 135-136 Circles. See Geometry Components, 26-28 Components vs. Groups, 26-28 Components in Estimator, 288 Nested Components, 28 ConDoc Tools, 37, 309-310 Contours Existing, 41-52 Proposed, 41-42 Copy, 19 Crawlspace. See Foundations Cut and Fill, 41-42, 259, 262

Decks, 188-206 Deck Estimating, 297 Deck Framing, 189–192 Decking, 196-198 Deck Railings, 198-201 Deck Stairs, 193-195 Developers, 30 Doors Exterior, 169-172 Interior, 224-235 Drape. See Sandbox Driveways. See Landscapes Drop GC, 268-269 Drywall Drywall Estimating, 298 Drywall Modeling, 214-219 DWG Files, 31-33, 42-44, 126, 159, 238 DXF Files, 31-33, 42-44, 126, 159, 238 Dynamic Components, 169, 224-228 Edge, 18-28 Electrical. See Mechanical, Electrical, Plumbing (MEP) Electrical Devices. See Mechanical, Electrical. Plumbing (MEP) Electrical Fixtures. See Mechanical, Electrical, Plumbing (MEP) Enscape, 329-331 Entity Info, 18-25 Estimating, 273-299 Estimator for SketchUp, 286-299 Quantity Takeoff, 273–275 Excavation, 262-267 Explode, 28 Extension Warehouse, 8–9 **Exterior** Finishes Exterior Details, 179–184 Exterior Trim, 173-177 Exterior Veneer, 173–179

Face, 18-28 File Management, 36–38 Floor Coverings Carpet, 220 Hardwood, 223 Tile, 221–223 Floor Systems Conventional Floor Framing, 113-125 Floor Trusses, 126–128 Subflooring, 129 Follow me, 20, 103, 113-116 Footings. See Foundations Foundations Basement, 53, 78-100 Crawlspace, 61–77 Footings, 64-97 Foundation Walls, 64-97 Monolithic Slab-on-Grade, 53-61 Slabs, 96-99, 283, 294 Waterproofing, 293-294 Framing Framer for SketchUp, 104–108 Framing, Members, 102 Wall Sheathing, 104–108 Fredo, 30, 41-45, 259 From Contours. See Sandbox Geolocation, 49-52 Geometry, 16-17 Arcs, 17 Circles, 17 Lines, 17 Rectangles, 17 Google Cardboard, 326 Grouped Layers, 224, 230, 233, 251, 296, 299 Groups and Components, 26–28 Guides, 64-66 Gutters and Downspouts, 183–188

Hardwoods. See Floor Coverings Hidden Geometry, 258 Hide Rest of Model, 71 HVAC. See Mechanical, Electrical, Plumbing (MEP) Inferences, 116-117 Instant Roof, 141–145 Insulation, 212-213 Interior Trim, 224–237 Ioint Push Pull, 164–166 Keyboard Shortcuts, 20 Kitchens, 238-244 Landscaping Driveways, 267-269 Existing Site Model, 41–48 Grass and Mulch, 256-271 Patios, 253-256 Proposed Site Model, 258–271 Site Plan, 43 Layers, 15 LayOut, 301-310 Lines. See Geometry Look Around. See Camera Menu Lumion, 317-322 Main Menu, 12 Make Unique, 28, 119 Materials. See Textures Measurements Box, 12–13 Mechanical, Electrical, Plumbing (MEP) Electrical Devices, 209-211 Electrical Fixtures, 251, 297 Electrical Quote, 297 HVAC, 127, 207-209, 297 Plumbing, 37, 113, 207–211, 249, 251, 297

Mechanical Systems. See Mechanical, Electrical, Plumbing (MEP) Medeek Truss Plugin, 141, 145–148 Mirror, by TIG, 29-30, 123-124, 154-156 Model Space, 303–304 Monolithic Slab-on-Grade. See Foundations Move Tool, 19 Navigation. See Camera Menu Offset, 19 Orbit. See Camera Menu Paint Bucket Tool, 69, 120, 151 Pan Tool. See Camera Menu Paper Space, 303-304 Parallel Projection. See Camera Menu Paste in Place, 68, 258 PDF Importer, 32 Perspective. See Camera Menu Phases of Construction, 39–262 Plugins. See Extensions Plumbing Fixtures. See Mechanical, Electrical, Plumbing (MEP) Plumbing. See Mechanical, Electrical, Plumbing (MEP) Position Camera. See Camera Menu Profile Builder, 30, 36-37, 53, 62, 73-74, 108, 174, 185, 278 Proposed Site. See Landscaping Protractor, 20, 132, 149-150 Push/Pull Tool, 19 Quantity Takeoff. See Estimating

Rafters. *See* Roof Systems Raster, 32, 308 Rectangles. *See* Geometry Rendering, 313–322 Reverse Face, 17, 116 **Roof Systems** Rafters, 147-158 Roof Plan, 137-138 Roof Planes, 137-145 Roof Sheathing, 160–165 Roof Shingles, 166-167, 280-282 Roof Trusses, 158-160, 295 Sub-Fascia, 160–162 Rotate, 19 Sandbox Drape, 42, 267-270 From Contours, 45, 52, 260-262 Scale LayOut, 308 SketchUp, 19 Scenes LayOut, 303, 307, 309-310 SketchUp, 12, 15, 58-59 Seamless Texture. See Textures Sections Section Cut, 56-57, Section Plane, 58 Select Tool, 16 Sheathing. See Framing and Roof Systems Site Plan. See Landscaping Site Model. See Landscaping Sketchucation, 9 SketchUp for Builders, 10 Sketchup Forum, 9 SketchUp Free, 7 SketchUp Pro, 7 SketchUp Texture Club, 10 SketchUV, 30, 41, 260 Slab Tool, 53, 97-99, 282-285 Slabs. See Foundations Smustard, 9 Soap Skin Bubble, 45, 261

Solid, 23 Solid Inspector, 30, 53, 73, 265-266 Solid Tools, 148 Stair Framing, 129-136 Stepped Footings. See Foundations Sticky Geometry, 26–27 Stray Edges, 73, 82, 262-264 Styles, 32 Sub-Fascia. See Roof Systems Subfloor. See Floor Systems Takeoff Area, 279, 282 Takeoff Length, 276, 279 Tal, Daniel, 261 Tape Measure, 20 Templates, 38, 292-298 Textures Materials Tray, 60, 69 Rotate, 151–152 Scale, 222 Seamless Texture, 10 Thea Render, 316 ThomThom, 30, 41, 53, 73, 126, 159, 215, 265-266 TIG, 30, 123, 141-142, 154-156, 279 Tile. See Floor Coverings Timber-Framed Bracket, 181–184 Toolbars LayOut, 306 SketchUp, 12, 20, 57 Tools on Surface, 30, 41, 259-260 Toposhaper, 30, 41-47 Trays, 12 V-Ray for SketchUp, 317

V-Ray for SketchUp, 317 Vali Architects, 141–145, 267 Vanities. See Bathrooms Vector, 32 Virtual Reality, 328–331 Virtual Tours, 322–327

Walk. See Camera Menu Wall Framing. See Framing Waterproofing. See Foundations Weight, 285 Welton, Chris, 318, 323 Windows, 169–173

X-Ray Mode, 48

Zoom. See Camera Menu