

Index

Note to the reader: Throughout this index **boldfaced** page numbers indicate primary discussions of a topic. *Italicized* page numbers indicate illustrations.

Numbers

- 3D entourage, 99
- 3D fog, Zdepth channel to create, 274
- 3D model, non-photo-realistic (NPR)
 - illustrations, **257–268**
 - rendering in VIZ, **258–263**
 - special image channels with MAXScripts, **264–268**
- 8-bit images, 13

A

- .abr files, 32
- .aco files, 197
- Acrobat PDF presentation, 315–316
- action to automate conversions in Photoshop, **240–241**
- Actions palette (Photoshop), 93, 93–94, 240
- Add Layer Mask button, 23, 23
- Add Plot Style Table Wizard, 145
- Add Plotter Wizard, 142
 - Plotter Model screen, 142
- Add To Sample eyedropper tool, 89
- additive color, vs. subtractive, **15–16**
- adjustment layers, 35, **35–36**, 253
- adjustments in Photoshop, **34–35**
- Adobe Gamma control panel, 60
- Adobe Gamma dialog box, 60, 60
- Adobe GoLive, 311
- Adobe PDF files
 - embedding color profile, 58
 - metadata support, 317
 - for security, 324
- Adobe RGB (1998) working space, 57
- AEC Foliage object, 261
- aliased lines, 5
- alpha channel
 - converting to layer mask, 238–240
 - rendering matted objects with, **229–233**
 - saving entourage as, 109–111, *110*, 121–123, 122
 - transparency channel converted to, *110*
- Angled Strokes filter, 37
- antialiased lines, 6, 6
 - and resolution, 7–8
- architectural visualizations, 257
- archival qualities of paper and ink, 70
- area shadows, 262–263
- artifacts, correcting in entourage, **105–108**, *106*
- aspect ratio, when sizing entourage, 125
- Assign Profile dialog box, 57, 57
- attachment to e-mail, 299
- attributes of Photoshop layers, **21–22**
- auto slices, 308
- AutoCAD, 3. *See also* plan preparation in AutoCAD
 - converting drawings to elevations, **193–196**

- image printer driver setup, **142–144**
 - transferring multilayer drawings to Photoshop, **153–159**
 - Autodesk VIZ, 221
 - 2005 trial version, 221
 - entourage in, **131–137**
 - creating geometry, **131–135**
 - material design, **135–137**
 - graphics buffer (G-Buffer), 264
 - non-photo-realistic (NPR) 3D model rendering, **258–263**
 - renderings in, **221–237**
 - 3D model, 222, 222–224
 - composing scene, 225–229
 - matted objects with alpha channels, 229–233
 - MAXScript to automate output, 233–236
 - shadow element, 236–237
 - AutoLISP, 153
 - Automate menu (Photoshop)
 - >> Contact Sheet II, 74
 - >> Web Photo Gallery, 304
 - automating image adjustment steps, 93–94
- B**
- Backdrop layer, for layer with transparency, 116
 - background
 - converting to normal layer, 239
 - erasing from entourage, 107, 107
 - filling with color, 281
 - photographs for, 249
 - Background layer, 18
 - banding, 15, 77–78, 78
 - minimizing, 82
 - noise to reduce, 97
 - Bevel And Emboss effect, 245
 - bit, 9
 - bit depth, 13
 - color, 15
 - bit planes, 13
 - bitmaps, 9, 9
 - from AutoCAD ImagePrinter, 195
 - black and white
 - limiting ImagePrinter driver to, 144
 - for non-photo-realistic (NPR) illustrations, **286–288**
 - blending mode, 18, 21
 - blurring image, **91–95**
 - .bmp file format, 8
 - Brightness/Contrast dialog box (Photoshop), 253, 253
 - Brightness/Contrast tool, 78, 79
 - Brush palette, 31
 - Brush Preset picker, 31
 - brushes in Photoshop, **31–33**, 280
 - size and hardness changes, 282
 - Brushes palette, 32–33, 33, 281, 281
- C**
- CAD drawings
 - guidelines for use in Photoshop, 140
 - real world scale, 147
 - Calculations dialog box (Photoshop), 109, 121, 121
 - calibration of color, **59–64**
 - and consistent print color, 68

- camera
 - elevation for, 225
 - rotating, 227
 - simulating effects, **96–97**
- Camera Raw dialog box, 76
- camera raw images, file size, 75
- Camera Raw plug-in, 75
- Camera viewport (Autodesk VIZ), 225, 226
- Canvas Size dialog box (Photoshop), 49, 186, 196, 196
- cathode ray tube (CRT) monitor, 15, 68
- CD files
 - Adjustments.psd file, 34
 - Basilique St Nazaire de Carcassone.jpg file, 91
 - BuildingElevation.tif file, 124
 - Building.psd file, 96
 - CAD sample files, 139
 - Cafe.psd file, 16
 - Carcassonne.jpg file, 94
 - ClippingGroup.psd file, 26
 - CompositingProject.psd file, 244
 - Cottage.dwg file, 140
 - Elevation.dwg file, 194, 211
 - Hollyhoc.psd, 179
 - House.psd, 88
 - IMG_1959.jpg file, 73
 - Kitchen.dwg file, 154
 - Kitchen.psd file, 166
 - LabColor.psd file, 54
 - Lagoon.psd, 21, 21
 - Landscape.NEF file, 76
 - lay2img program, 153
 - Layers.psd file, 18, 18
 - libraries for entourage, 130
 - Linework2.psd file, 7–8
 - Linework.psd file, 6
 - Logo.psd file, 186, 187
 - Lunch2.psd file, 48
 - Lunch.psd file, 46
 - Masks.psd file, 22, 23
 - PlumTree.psd file, 112
 - SimpleDrawing.dwg, 2, 2
 - Sky.jpg file, 89, 214
 - StreetBitmap.psd file, 9
 - StreetGrayscale.psd file, 9, 10
 - Street.psd file, 37
 - StreetRGB.psd file, 13
 - tilable patterns, 162
 - Walnut.jpg file, 159
 - WomanStanding.psd file, 100
- CD-ROM, for digital photos, 71
- Channel Mixer adjustment layer, 286, 287
- ChannelRenderer0.3.ms MAXScript, 266, 267
- channels, 13
 - pasting images into, 272–274
 - to save selections, **16–17**
- Channels palette, 13
 - layer mask in, 23
- Character palette, 41
- characterizing monitor, 59
- checkerboard pattern for transparency, 19, 19
- Choose Editor File dialog box (Autodesk VIZ), 234
- CIE (International Commission on Illumination), 53
- Cintiq interactive pen display, 69
- cleaning drawings, **140–141**

- Cleanup tool, in Extract dialog box, 104
- client access to work
 - e-mailing images, **299–303**
 - ImageReady for optimized web pages, **306–313**
 - rollovers, **309–312**
 - slices, 306–309, 307
 - viewing, 312–313
 - intellectual property protection, 317–326
 - metadata, 317–320
 - securing data, 324–326
 - watermarks, 317, 320–324
 - printed media for, **291–299**
 - slide shows, **313–316**
 - Acrobat PDF presentation, 315–316
 - in-Photoshop demonstration, 314–315
 - web photo galleries, **303–306**, 305
- clipping groups, **26–28**, 27, **253**
- CMYK color mode, 16, 53
- cold material, 233
- color
 - accuracy for printing, 292
 - additive vs. subtractive, **15–16**
 - balancing, **82–87**
 - calibration and profiles, **59–64**
 - monitor profile, 59–61
 - printer color correction, 62–64
 - choosing after masking surface, 279–282
 - color spaces, **56–59**, 63
 - consistent printing, **64–66**
 - calibration systems, 68
 - display devices, 68–69
 - inks, 69–70
 - paper, 70
 - RGB printers, 69
 - studio environment, 67
 - modes and gamuts, **53–56**
 - vs. number, **1–8**
 - for Photoshop layers, 243, 244
 - reproducing grayscale images with colored inks, **289–290**
 - sharpening and removing noise, **91–94**
- color bit depth, **15**
- color cast, limitations of eyedropper to remove, 86
- color coding, layers in Photoshop, 20
- color depth, limiting for ImagePrinter driver, 144
- color images, **13–15**
- Color Management Module (CMM), 56, 297
- Color Overlay effect, 244, 245, 246
 - for grayscale patterns, 168
- Color Picker (Photoshop), 10, 10–11
- Color Range dialog box (Photoshop), 88, 119
- Color Replacement tool, 106–107
- Color Sampler tool (Photoshop), 85
- Color Settings dialog box, 56, 56–57, 58, 58
- color temperature, 61
- commercial printer, 292
- Commit button in Options bar, 47
- composing scene in Autodesk VIZ, **225–229**
- composite layer, adding to, **254–256**
- compositing, 221
 - environment, **249–252**
 - in Photoshop, **238–244**
 - action to automate conversions, 240–241

converting alpha channels to layer masks, 238–240
organizing layers, 243–244
transferring masked layers to project, 241–242

Compositing Layers palette (Photoshop), 244

compression algorithms, 8

compression file format, 301

computer-aided design (CAD), 1. *See also* CAD drawings

confidentiality, password protection to maintain, 303

contact sheet, 74, 75

Contact Sheet II dialog box (Photoshop), 74, 74

Contiguous mode for Magic Eraser, 116

continuous-flow ink systems, 69–70

Contour effect, 245

Convert Alpha To Layer Mask action, 269

converting alpha channels to layer masks, 238–240

coordinate system, three-dimensional, 3

copyright information in File Info dialog box, 319

Crop And Straighten Photos tool, 48–49

Crop tool (Photoshop), 50

cursor, precise, 116, 117, 167

Curves adjustment layer, 83

Curves dialog box (Photoshop), 83, 83, 86

Custom Paper Sizer Wizard (AutoCAD), 143, 143

Custom Shape tool, 44

Customize menu (Autodesk VIZ) >> Units Setup, 131, 134

D

darkening selection, 34

darkroom skills

- color balance, 82–87
- digital film, 71–78
- sharpening and blurring, 91–95
- simulating camera effects, 96–97
- sky replacement, 87–90, 90
- tonal range adjustment, 78–82

.dcs files, embedding color profile, 58

default settings for Photoshop brushes, 33

Defringe tool, 107

deleting

- channels, 289
- layers in Photoshop, 20

desktop printers, 69

Digimarc filter, 322–324

digital cameras, 16 bits per channel, 15

digital copyright, 317

digital watermark, embedding, 322–324

direct light in Autodesk VIZ, 222

Direct Selection tool (Photoshop), 208

disclaimer for e-mail transmission of images, 303

display devices. *See also* monitor

- and consistent print color, 68–69

docking palettes in Photoshop, 33

Dodge and Burn layer, 81–82, 202, 203

drivers for printers, 62

drop shadows, 168

- and fill boundaries, 184

Duotone color mode, 289

Duotone Curve dialog box (Photoshop), 290

Duotone Options dialog box (Photoshop),
289, 290
 duplicating layers in Photoshop, 20
 DVD-ROM, for digital photos, 71
 dyes for ink, 70

E

e-mailing images, 291, **299–303**
 disclaimer when, 303
 Edge Highlighter tool in Extract dialog box,
101, 102
 Edge Touchup tool in Extract dialog box, 105
 edges
 alternative enhancements with Emboss,
 94–95
 sharpening and blurring, 91
 Edit menu (Photoshop)
 >> Color Settings, 56
 >> Define Custom Shape, 189
 >> Define Pattern, 159
 >> Fade Filter Gallery, 39, 288
 >> Fade Unsharp Mask, 91
 >> Paste Into, 90, 214
 >> Preferences
 >> Display & Cursors, 13, 14
 >> General, 167
 >> Transparency & Gamut, 54
 >> Transform
 >> Flip Horizontal, 129, 250
 >> Scale, 125
 >> Undo, 38
 editing, reversing, **38–40**
 effects, applying to masked layers, **245–248**
 elevation for camera, 225

elevations, 193
 adding entourage, **217–220**
 people, **124–126, 125**
 tree, **126–129, 127**
 completed project, 220
 converting AutoCAD drawings, **193–196**
 faking reflection and refraction, **211–215**
 shadows, **204–210**
 simulating texture, **197–204**
 Ellipse tool (Photoshop), 25, 43
 Embed Watermark dialog box (Photoshop),
323, 323
 Emboss dialog box (Photoshop), 94–95, 95
 emotion, color and, 83
 entourage, 99
 adding to elevations, **217–220**
 people, **124–126, 125**
 trees, **126–129, 127**
 in Autodesk VIZ, **131–137**
 creating geometry, **131–135**
 material design, **135–137**
 building library, **130–131**
 enhancing, **123–131**
 shadows, 128–129, 129
 Transform command to size, 124–125
 extracting objects from photos,
 111–123, 123
 extracting tree, 112–119
 post-extraction processing, 119–120
 saving as alpha channel, 121–123, 122
 extracting people from photos, **99–111**
 correcting artifacts, 105–108, 106
 with Extract tool, 100–105
 saving as alpha channel, 109–111, 110

pivot point for, 134–135
 purchasing, 130–131
 environment, **249–252**
 setting color in VIZ, 230
 Environment And Effects dialog box, Envi-
 ronment tab, 230, 230
 .eps files
 embedding color profile, 58
 metadata support, 317
 Epson, 69
 erasing background from entourage, 107
 erasing, background from entourage, 107
 Exif data, 318
 exporting raster data from AutoCAD, virtual
 printer for, 142
 exposure of image, adjusting, 81
 Extensible Metadata Platform (XMP)
 format, 320
 Extract dialog box (Photoshop), 100–105,
 101, 112
 Cleanup tool, 104, 115
 Edge Highlighter tool, 101, 102, 113
 Edge Touchup tool, 105, 115–116
 Eraser tool, 113
 Fill tool, 103, 113
 Hand tool, 102, 113
 Textured Image, 113
 Zoom tool, 101, 104, 113
 Extract tool, **100–105**
 extracting objects from photos. *See* entourage
 Eyedropper tool (Photoshop), 10

F

Fade dialog box (Photoshop), 91, 92
 fax machines, 9
 File Browser (Photoshop CS), 72, 72–73
 >> Automate >> PDF Presentation, 324
 flagging files, 73
 for image presentation to client, **314–315**
 Metadata palette, 318
 organizing thumbnails in, 304
 padlock icons, 73
 file formats
 compression algorithms, 8
 embedding color profile, 58
 metadata support, 317
 File Info dialog box (Photoshop), 319, 319
 File menu (AutoCAD) >> Plot, 148, 195
 File menu (Autodesk VIZ) >> View Image
 File, 132
 File menu (ImageReady)
 >> Automate >> PDF Presentation, 315
 >> Save Optimized As, 312
 File menu (MAXScript window) >> Evaluate
 All, 235
 File menu (Photoshop)
 >> New, 4
 >> Print With Preview, 295
 >> Revert, 35
 >> Save As, 58
 file size, **45–46**
 incremental increases, 294
 snapshots and, 39
 filenames, for web pages, 312
 fill, correcting spill-out, 173
 fill layers, 36
 patterns for, 165–166
 Fill opacity control, 22

fill percentage, of Background layer, 18

Fill Pixels mode, 43

Fill tool, in Extract dialog box, 103

FILLET command (AutoCAD), 141, 141

Filter Gallery, 36–37, 37

Filter Gallery dialog box (Photoshop), 252, 252,
285, 285, 287, 288

Filter menu (Photoshop)

>> Automate >> Photomerge, 293

>> Blur >> Gaussian Blur, 92

>> Digimarc

>> Embed Watermark, 323

>> Read Watermark, 324

>> Distort >> Glass, 252

>> Extract, 100, 112

>> Filter Gallery, 37

>> Liquify, 119

for reflection, 215

>> Noise >> Add Noise, 97, 198

>> Pattern Maker, 160

>> Render >> Lens Flare, 96, 255

>> Sharpen >> Unsharp Mask, 91, 108

>> Stylize >> Emboss, 94

filters

applying, 36–38

for photos, 86–87

flat color, 172–176, 174

flat-panel liquid crystal displays (LCD), 68

floating palette, 280

fluorescent lighting

blue-green cast from, 82

and color, 67

fog, Zdepth channel to create, 274

folders for patterns, 163

Forward Warp tool, 215

FTP client, obtaining open-source, 306

FTP site, posting images to, 301

G

gallery styles in Photoshop CS, 303

gamma, 61

gamut, 53

Gaussian Blur dialog box (Photoshop), 92

generic units in Autodesk VIZ, 134

geometric objects, displaying list, 223

geometry, entourage, 131–135

Giclee prints, 69

.gif files, 301

vs. .jpg files, 309

glass, simulating refraction and
imperfections, 252

Global Light dialog box (Photoshop), 207, 207

Gradient Fill layer, 36

Gradient Overlay effect, 175, 244, 245, 246

Gradient Picker, 191, 191

grain of film, 96

grain pattern, applying in two directions,
171–172

graphic scale, 147

graphics buffer (G-Buffer) in Autodesk
VIZ, 264

Graphics Interchange Format (GIF), 301

vs. JPEG, 309

gray, determining middle, 85

Grayscale dialog box (Photoshop), 195

grayscale images, 9–10, 10, 11

colorizing patterns, 168

reproducing with colored inks, 289–290

RetagMacbeth, profiling and calibration
products, 68

H

halogen bulb, SoLux MR-16, 67

halos

eliminating, 284

from extreme sharpening, 91

Hand tool in Extract dialog box, 102

hard proof, 64

Help menu (Photoshop) >> Photoshop
Help, 21

hiding selection in Photoshop, 34

histogram, 34

in Camera Raw dialog box, 76, 76, 77

History brush, 108, 118

history, moving through, 38

History palette, 38–39, 39

Hollyhock project, **179–186**, 185

horizontal lines, Shift key (Photoshop) for, 5

Horizontal Type tool, 40

hot material, 232

hot spot for tool, 116

HP (Hewlett-Packard), 69

Hue/Saturation dialog box (Image Ready),
309, 310

Hue/Saturation dialog box (Photoshop), 35
for entourage, 120

hyperlinking, 311

I

ICC (International Color Consortium) profile,
58, 59–60

Image menu (Photoshop)

>> Adjustments

>> Brightness/Contrast, 35

>> Color Balance, 35

>> Desaturate, 40

>> Hue/Saturation, 34, 309

>> Levels, 34

>> Shadow/Highlight, 79

>> Calculations, 109, 121

>> Canvas Size, 49, 186, 196

>> Image Size, 8, 46, 149, 292, 294

>> Mode, 15

>> Assign Profile, 57

>> CMYK, 55

>> Duotone, 289

>> Grayscale, 195, 289

>> RGB Color, 195

>> Rotate Canvas >> Arbitrary, 47

>> Trim, 110, 122

image printer driver, setup in AutoCAD,
142–144

Image Size dialog box (Photoshop), 45, 46,
149, 150

and printing, 292, 293

and resampling image, 294

ImageReady, 156

adding basic links to web page in, 311

for optimized web pages, **306–313**

rollovers, **309–312**

slices, 307

slices of image, 306–309

viewing, 312–313

images

sizing and transforming, **45–50**

straightening, **46–49**

Info palette, Total Ink, 85

inks, and consistent print color, **69–70**
 Inner Shadow effect, 204, 205, 210, 246
 integrating renderings, in Photoshop, **268–274**
 intellectual property protection, 317–326
 metadata, 317–320
 securing data, 324–326
 watermarks, 317, 320–324
 International Color Consortium (ICC) profile, 58, 59–60
 International Commission on Illumination (CIE), 53
 inverting masks, 36

J

Joint Photographic Experts Group. *See* .jpg file format
 .jpg file format, 8, 301
 embedding color profile, 58
 vs. .gif file format, 309
 metadata support, 317
 for photos, 74

K

kitchen project, **166–178**, 179
 knockouts, **26–28**, 27

L

Lab color mode, 53–54
 converting between RGB and, 92
 landscape print orientation, 297
 Lasso tool (Photoshop), 16
 lay2img program, 153, 155
 layer-based slices, 307–308

LAYER command (AutoCAD), 194, 211
 layer masks, 22
 converting alpha channels to, 238–240
 creating, 23
 deleting, 25
 Magic Wand tool to add, 172
 Layer menu (Photoshop)
 >> Layer Style, >> Scale Effects, 169
 >> Matting
 >> Defringe, 107, 118
 >> Remove Black Matte, 118
 >> Remove White Matte, 118
 >> New
 >> Background From Layer, 18, 157, 281
 >> Layer Via Copy, 79
 Layer Properties dialog box (Photoshop), 243
 Layer Properties Manager dialog box (AutoCAD), 194, 194
 Layer Set Properties dialog box (Photoshop), 244
 Layer Style dialog box (Photoshop), 28, 28, 29, 168, 168, 244
 Drop Shadow, 169
 Gradient Picker, 175, 175
 Inner Shadow, 176
 Pattern Overlay, 200, 200
 Satin effect, 174
 for shadow, 126, 126, 128
 Stroke effect, 176
 layer styles, **282–283**, 283
 applying, 167–169
 for plan enhancement, **166–186**
 Hollyhock project, **179–186**, 185
 kitchen project, **166–178**, 179

layers in Photoshop, 17–30

- attributes, **21–22**
 - Background layer, 18
 - clipping groups and knockouts, **26–28**, 27
 - distorting, 129
 - duplicating, 20, 128
 - for entourage, 124
 - lock options, 22
 - masked, applying effects, **245–248**
 - mirroring, 250
 - ordering, 178
 - organizing, **17–20**, **243–244**
 - for shadows, 128
 - for sharpening and blurring, 93
 - styles, **28–30**, 29
 - and vector masks, **22–26**
- Layers menu (Photoshop) >> Layer Style >>
Global Light, 207
- Layers palette (Photoshop), 18, 242
- Composite layer, 186
 - menu, 110
- Lempel-Zif-Welch (LZW) lossless compression, 8, 301
- Lens Flare dialog box (Photoshop), 96, 97, 255, 255
- lens flares, 96
- Levels dialog box, 34, 34
- libraries
- for brushes, 32
 - for custom shapes, 44
 - for entourage, **130–131**
 - for patterns, **162–164**, 163, 164
 - deleting default, 162
 - of swatches, 197

Lighten blending mode, 21

lighting

- and color, 67
- intensity, 213

Line tool (Photoshop), 4

line type on architectural plans, 182

line weight and thickness, 145

- in AutoCAD, 193

liquid crystal displays (LCD), 68

Liquify dialog box, 119–120, 120

Lock Image button, 22

Lock Position button, 22

Lock Transparency button, 22

locked layer, 18

logical inch, 150

logo artwork, 186

- placement, 188

longevity test results of paper and ink, 70

lossless compression, 8

lossy compression, 8

M

Mac OS, Monitor Calibrator utility, 60

Macromedia Dreamweaver, 311

Magic Eraser tool (Photoshop), 116, 117, 157

Magic Wand tool (Photoshop), 16, 277

- to add layer mask, 172

- layers affected, 19

marching ants, toggling, 34

Marquee tool (Photoshop), 16

masked layers

- applying effects, **245–248**

- compositing, 269–270

- transferring to project, **241–242**

masks

- and Adjustment layers, 35

- from channels, **275–279**

- inverting, 36

- material design for entourage, **135–137**

- Material Editor (Autodesk VIZ), 135, 135–137, 224, 225, 231

- Matte/Shadow material, 261, 262

- triangular corner tabs, 232, 232

- Material/Map Browser dialog box (Autodesk VIZ), 231, 232

- Matte/Shadow material, 230

- matted objects, rendering with alpha channels, **229–233**

MAXScript

- to automate output, **233–236**

- ChannelRenderer0.3.ms, 266, 267

- ObjectIDAssigner, 264–266, 266

- for rendering special image channels, **264–268**

- RenderMatte script, 234

- Measure tool (Photoshop), 47

- metadata, 317–320

- Microsoft, 150

- middle gray, determining, 85

- Missing Profile dialog box, 57

- moirés pattern, 91

monitor

- calibration, 59

- recommendations, 64

- and consistent color display, **68–69**

- profile, **59–61**

- Move tool (Photoshop), 125

- Multiply blending mode, 250

N

- nesting layers, 20, 243

- New Action dialog box (Photoshop), 93, 240

- New dialog box (Photoshop), 4, 4, 241, 242

noise

- to reduce banding, 97

- sharpening and removing, **91–94**

- to simulate texture, 198

- Noise dialog box (Photoshop), 97

- non-photo-realistic (NPR) illustrations, 257

- 3D model, **257–268**

- rendering in VIZ, **258–263**

- special image channels with

- MAXScripts, **264–268**

- black and white, **286–288**

- integrating renderings, **268–274**

- masking and painting surfaces, **275–286**

- reproducing grayscale images with colored inks, **289–290**

- Normal special image channel, 264

- number, vs. color, **1–8**

O

- Object Properties dialog box, General tab, 265, 265

- ObjectID special image channel, 264

- ObjectIDAssigner MAXScript, 264–266, 266

- objects, 2

- ocean shore, Layer Style effects for, 180, 180

- omni lights, in Autodesk VIZ, 222

opacity

- and applying paint, 281

- of Background layer, 18

- changing for extraction, 104, 115

Opacity control, 21–22
 opacity map, 136
 Open Monitor Profile dialog box, 60, 61
 Options bar (Photoshop), 5, 5
 Commit button, 47
 for text, 40, 40
 OPTIONS command (AutoCAD), Files tab,
 Printer Support File mode, 144
 Options dialog box (AutoCAD), Plot and
 Publish tab, 145, 145
 organizing layers in Photoshop, 17–20,
 243–244
 out-of-gamut colors, 54–56
 Outer Glow effect, 246
 and fill boundaries, 184

P

Page Setup dialog box (Photoshop), 65, 65,
 295, 295
 Paint Bucket tool (Photoshop), 159–160,
 164–165
 palette, floating, 280
 paper, and color output, 68, 70
 paper consumption, 291–292
 Paragraph palette, 41
 password protection
 for .PDF files, 324–325
 for gallery URL, 303
 pasting images into channels, 272–274
 .pat file extension, 163
 paths, creating and editing, 42–45
 Paths mode, 43
 Pattern Fill layer, 36, 165–166

Pattern Maker dialog box (Photoshop),
 160, 161
 Pattern menu (Photoshop) >> Reset
 Patterns, 164
 Pattern Name dialog box (Photoshop), 159
 Pattern Overlay effect, 244, 245
 Pattern Picker, scale, 181
 Pattern Stamp tool (Photoshop), 164, 165, 165
 patterns, 159–166
 aligning, 177–178
 applying, 164–166
 creating and applying, 159–160
 with grain, applying in two directions,
 171–172
 library for, 162–164, 163, 164
 registering tile grid, 178, 178
 for texture, 198–199, 199
 tilable, 160–161
 .pdf files
 embedding color profile, 58
 metadata support, 317
 for security, 324
 PDF Options dialog box, 324, 325
 PDF Presentation dialog box, 315
 PDF Security dialog box, 326
 people, sharpening images, 92
 Personalize Digimarc ID dialog box, 323, 323
 perspective, correcting for two-point, 49–50,
 50, 51
 Phosphors and White Point: Hardware
 pop-ups, 60, 61
 photo filters, 86–87
 photo galleries, web pages for, 303–306, 305
 photo-realistic renderings, 257

photographs

- 16 bits per channel, 15
- for background, 249
- hand-painted appearance, 284–286, 286

Photomerge command (Photoshop), 293

Photoshop

- action to automate conversions, **240–241**
- Color Management Module (CMM), 56
- data handling, 4–6
- guidelines for CAD drawing use, 140
- for image presentation to client, **314–315**
- integrating renderings, **268–274**
 - compositing masked layers, 269–270, 271
 - pasting images into channels, 272–274
- masking and painting surfaces, **275–286**
 - choosing colors and brushes, 279–282
 - finishing touches, 284–286
 - layer style effects, 282–283
 - masking with channels, 275–279
- project layout, 186
- transferring AutoCAD multilayer drawings to, **153–159**

Photoshop CS, maximum channels for image, 109

.pict files, embedding color profile, 58

Piezo prints, 69

pigments for ink, 70

ping files, 266

pivot point, for entourage, 134–135

pixels, 4

- for monitor measurement, 150
- relationship to grid, 6
- selecting, **16**

plan preparation in AutoCAD, **139–152**

cleaning drawings, **140–141**

image printer driver setup, **142–144**

layer style techniques, **166–186**

Hollyhock project, **179–186**, 185

kitchen project, **166–178**, 179

patterns, **159–166**

plan layout on sheet, **186–191**, 190, 191

plot style table, creating, **145–147**

scale and resolution, **147–152**

Plot dialog box (AutoCAD), 148, 148–149, 151, 195, 211

plot style table, creating, **145–147**

Plot Style Table Editor dialog box (AutoCAD), 147

Plot Style Table Settings dialog box (AutoCAD), 145, 146

Plot Styles folder, 146, 146

Plotter Configuration Editor dialog box (AutoCAD), 142–144, 143

plotter drivers, accessing, 144

Plotter Model Parameters file (.pmp) file, 144

PLOTTERMANAGER command (AutoCAD), 144

Portable Network Graphics files (.png), 266, 301

PostScript, 298–299

powers of 2, 12

and grayscale, 11, 13

precise cursor, 116, 117, 167

Preferences dialog box, 13, 14

increasing number of History states, 38–39

Transparency & Gamut settings, 54, 54

print device, selecting in Photoshop, 295

Print dialog box (Photoshop), 65, 66, 295, 295

- Alt key to change button functions, 298
- color management options, 297
- dragging bounding box, 297

Print dialog box (Windows), 298, 298

printed media, for display to clients, 291

printer Properties dialog box (Photoshop), 296, 296

printers, 69

- disabling color correction, **62–64**, 296
- drivers for, 62

Printers And Faxes folder, 62

printing, **291–299**

- consistent color, **64–66**
 - calibration systems, 68
 - display devices, 68–69
 - inks, 69–70
 - paper, 70
 - RGB printers, 69
 - studio environment, 67
- plan layout on sheet for, **186–191**, 190, 191
- work flow, 292

Printing Preferences dialog box, 62, 62

printing press, considerations, 67

profiles, 56–57

- embedding in file formats, 58

Proof Setup dialog box (Photoshop), 64, 65

Properties command (AutoCAD), 2

Properties palette (AutoCAD), 2, 3

ProPhoto working space, 57

.psb files, metadata support, 317

.psd files

- embedding color profile, 58
- metadata support, 317
- for storing alpha channels, 230

R

Railing tool (Autodesk VIZ), 224

raster data, storage and compression, 8

rasterized text, 41

raytracing, 211

- shadows, 237

read-only medium for digital photos, 71

real world scale for CAD drawings, 147

Rectangle tool (Photoshop), 42

reflection, faking, **211–215**, 215, 216

refraction, faking, **211–215**

Render Element Output File dialog box (Autodesk VIZ), 237, 263, 263

Render Matte rollout, 235, 235

Render Scene dialog box (Autodesk VIZ), 226

- Common tab, 227, 263

- Output Size, 259, 260

- Render Elements tab, 237

Rendered Frame Window (Autodesk VIZ), 132, 133

renderings

- in Autodesk VIZ, **221–237**

- 3D model, 222, 222–224

- composing scene, 225–229

- matted objects with alpha channels, 229–233

- MAXScript to automate output, 233–236

- shadow element, 236–237

- integrating in Photoshop, **268–274**

- photo-realistic, 257

- with RenderMatte MAXScript, estimate time requirements, 236

- time requirements, 221

repetitive tasks, MAXScript to reduce, **233–236**

Resample Image command (Photoshop), 8
 resampling image, 46, 293
 resolution, 4, 45–46
 and antialiased lines, 7–8
 for CAD drawings, 148
 and print quality, 292
 of vector layers for printing, 298
 reversing editing, 38–40
 RGB color mode, 15, 53
 RGB printers, and consistent print color, 69
 rollovers, 309–312
 Rotate Canvas dialog box, 47, 47
 rotating selection in Photoshop, 47
 Rounded Rectangle tool (Photoshop), 42–43
 rubylith mode, 281
 rulers in Photoshop, 149, 149

S

Satin effect, 174
 Save As dialog box (Photoshop), 58, 58, 74
 Save For Web dialog box (Photoshop)
 4-Up tab, 300, 301, 302
 Original tab, 299, 300
 Save Selection dialog box, 16, 17
 saving
 entourage as alpha channel, 109–111, 110,
 121–123, 122
 selection as channel, 16–17
 snapshots, 39
 scale bar, creating, 188–189
 scale for CAD drawings, 147
 common factors, 152–153
 scanned photo, straightening, 48–49

screen resolution, 46
 history, 150
 scripting language. *See* MAXScript
 securing data, 324–326
 Select And Move tool (Autodesk VIZ), 225
 Select and Rotate tool (Autodesk VIZ), 227
 Select menu (Photoshop)
 >> Color Range, 88
 >> Feather, 89, 119, 284
 >> Modify >> Expand, 284
 >> Save Selection, 16
 Select Objects dialog box (Autodesk VIZ), 223,
 223
 selected object, 2, 2
 Selection Floater dialog box (Autodesk VIZ),
 230, 231
 selection in Photoshop
 hiding, 34
 pixels, 16
 rotating, 47
 saving and loading with channels, 16–17
 softening edge, 89
 Set Black Point eyedropper, 83
 Set Gray Point eyedropper, 83, 86
 Set White Point eyedropper, 84
 seven-ink system, 16, 69
 shadow element, rendering, 236–237
 Shadow/Highlight dialog box (Photoshop),
 79–81, 80
 Shadow/Highlight tool, 78
 shadows
 custom, 207
 in elevations, 204–210

- for entourage, 128–129, 129
 - tree, 218–219, 219
 - layer for, 128
 - layer style for, 126, 168–169
 - and matte objects, 230
 - shape layers, 42, 208–209
 - to ground building, 217, 218
 - logo as, 321, 321
 - Shape layers mode, 43
 - Shape Name dialog box (Photoshop), 189
 - Shape pop-up, 44
 - shapes, creating and editing, 42–45
 - sharpening image, 91–95
 - Shift key (Photoshop), for horizontal or vertical lines, 5
 - simulating
 - camera effects, 96–97
 - texture, 197–204
 - sizing images, 45–46
 - Sketch filters, 287
 - Skew command (Photoshop), 50
 - Slice tool (Photoshop), 308
 - slices of image, 306–309, 307
 - slide shows, 313–316
 - Acrobat PDF presentation, 315–316
 - in-Photoshop demonstration, 314–315
 - Smart Highlighting, 101, 103
 - snapshots, saving, 39
 - soft proof, 64
 - softening brush, 32
 - softening edge, for building plan continuation, 189–191, 190
 - SoLux MR-16 halogen bulb, 67
 - special image channels, 272
 - rendering with MAXScripts, 264–268
 - spectrophotometer, 68
 - states, 38–39
 - stitching multiple telephoto images
 - together, 293
 - straightening images, 46–49
 - Stroke effect, 246
 - studio environment, and consistent print color, 67
 - styles for Photoshop layers, 28–30, 29
 - Subtract From Selection tool, 89
 - subtractive color, vs. additive, 15–16
 - Sunlight system, in Autodesk VIZ, 222
 - swatch library, 281
 - Swatches palette, 197, 280, 280
- T**
- Tagged Image File Format (.tif). *See* .tif file format
 - Targa file format (.tga), 230
 - Targa Image Control dialog box (Autodesk VIZ), 233, 260, 261
 - text, creating and editing, 40–41
 - texture, simulating, 197–204
 - Texturizer filter, 38
 - .tga file format, alpha channel support, 111, 230
 - three-point perspective, 49
 - renderings, 228
 - Threshold adjustment layer, 84, 84, 85
 - .tif file format, 8
 - alpha channel support, 111, 230
 - embedding color profile, 58

- metadata support, 317
 - for photos, 74
- tilable patterns, 159, **160–161**
- tiles, 159
- time requirements
 - estimating for RenderMatt MAXScript, 236
 - when printing multiple copies, 298
- tolerance level for Magic Eraser, 116
- Tools menu (AutoCAD)
 - >> AutoLISP >> Visual LISP Editor, 154
 - >> Selection Floater, 230
 - >> Wizards >> Add Plotter, 142
- Transform command, 47
 - to size entourage, 124–125
- transition line, for patterns, 177, 177
- transparency
 - checkerboard pattern for, 19, 19
 - layer styles and, 167
 - replacing white with, 157
- tree
 - adding to elevation, **126–129**, 127
 - extracting from photos, 112, **112–119**, 114
 - hiding, 261
- Trim dialog box (Photoshop), 122
- two-point perspective, 228–229, 229
 - correcting for, **49–50**, 50, 51

U

- under exposed images, Screen blending mode
 - to compensate for, 81
- Undo command, 38
 - in Extract dialog box, 102

- Units Setup dialog box (Autodesk VIZ),
 - 131, 131
 - Generic Units, 134
- Unsharp Mask dialog box (Photoshop), 91, 92

V

- vector, 1–2
- vector-based graphics, 1
- vector layers, resolution for printing, 298
- vector masks, 22
 - creating, 25, 26
 - and layers in Photoshop, **22–26**
- vector program, AutoCAD as, 142
- vertical lines, Shift key (Photoshop) for, 5
- View File dialog box (Autodesk VIZ), 132, 133
- View menu (Photoshop)
 - >> Gamut Warning, 54, 55
 - >> Proof Setup >> Working CMYK, 64
 - >> Rulers, 149
- Viewport menu (Autodesk VIZ) >> Show Safe Frame, 259
- virtual printer, setup in AutoCAD, 142
- Visual LISP for AutoCAD window,
 - 154–156, 155

W

- Warming filter, 87
- warped image, 215, 216
- warped text, 41
- Watermark Information dialog box (Photoshop), 324, 324
- watermarks, 317, 320–324
- web pages, viewing optimized, **312–313**
- web photo galleries, **303–306**, 305

Web Photo Gallery dialog box (Photoshop),
304, 305

web sites

- archival qualities, 70
- Autodesk, 221
- Camera Raw plug-in, 75
- Cintiq interactive pen display, 69
- color calibration systems, 68
- for entourage purchases, 131
- lighting, 67
- for open-source FTP client and FTP server
for Windows, 306

white halos, eliminating, 284

white, replacing with transparency, 157

Window menu (Photoshop) >> Workspace >>
Save Workspace, 33

Windows bitmap file format, 8

windows, faking reflection and refraction,
211–215

Worster, William, Gregory Farmhouse design,
258, 258–263

X

XMP (Extensible Metadata Platform)
format, 320

Z

Zdepth channel, 264, 273

Zoom Realtime tool (AutoCAD), 3

Zoom tool, in Extract dialog box, 101, 104

Zoom tool (Photoshop), 5, 8

