

Index

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

- Absolute Colorimetric value, 266–267
acceleration in animation, **307**, 307
Active Links in Web Photo Gallery, 288
Add Luminosity tool
 for color correction, 126
 for tones, 104
Add Noise filters
 purpose and location of, 8
 working with, 99–101
Add Photos dialog box, 289
Add To Sample Eyedropper tool, 134, 135
Add To Shape Area mode, 240
Add Zone option, 270
additive color, 17
adjustment layers for gradients, 59
Adobe Acrobat, 263
Adobe Gamma
 for monitor calibration, **24–28**, 24–29
 purpose and location of, 7
Adobe RGB workspace, **29–30**
alpha channels, **195–197**
Amount setting for Unsharp Mask, 94, 96–98
analog film, **38**
animation, **302–303**
 acceleration, deceleration, and constant speed
 in, **307**, 307
 building, **306**
 compiling parts in, **308–314**, 309–311
 planning, **303–305**, 304
 in Web images, 283
anomalies in histograms, 83
Anti-Aliased option, 69
- A** applying
 duotones, **149–153**, 150–152
 gradient maps, **62–64**
Arc setting for warped text, 245–246, 246
artifacts in JPEG images, 279
Auto Contrast setting, 333
Auto control for RAW files, 337
Auto Levels setting, 333
-
- B**
Background Eraser tool, 317
backgrounds
 in compositing, **195**, 195
 for textures, 220
 for transformations, **202–204**
 with vector images, 249
balance, color, **138–140**, 138–139
Banner tab, 288
banner text, 288
Basic Color Correction tool, 7
bevels, 227
Bicubic interpolation, **36**, 324–325
Bilinear interpolation, **36**
Bilinear resampling, 225
binary formats, 328
bit depth
 description, **328–329**
 for RAW files, 337
Bit Depth control, 337
bitmap images
 characteristics of, 16–17, 17
 color modes and purpose of, 326
 profiles for, 32

black-and-white images. *See also* grayscale images
 converting color images to, **43–53**, 49, 51–52
 converting to color images, **53–55**, 55
 duotones for. *See* duotones

black color
 in CMYK separation, **168–173**, 170–173
 in duotone printing, 154

bleeding, 272

bleedingheart.psd file, 124, 124

Blend Mask tool
 for noise, 101
 purpose and location of, 9
 for selections, 186
 for textures, 223
 for tones, **103**, 103, 107–108

blending modes
 for blue component, 48
 for color calculations, 158
 for duotones, 153
 for green component, 47
 list of, **329–331**
 for luminosity, 50
 for red component, 46

blue component, creating, **48–49**

Blur filters
 for noise, 99–101, 115
 shortcut and description for, 318
 for textures, 223

body text for Web Photo Gallery, 288

booklets, 272, 272

boring composition, 180

bottle.psd file, 132–133, 132

bricks in patterns, 217–218, 217–218

brightness setting
 in monitor calibration, 25
 for RAW files, 336
 for tone, 130

Brush tool, 317

brushes for Clone Stamp, 74

Burn tool, 318

butterfly.psd file, 142–145, 142

buttons
 for gradients, **61**

rollovers for, **297–301**, 297
 shaping, **209–211**, 211

C

calculations
 for color, **156–159**, 156, 158–159, **162–163**
 for selections, **188–190**, 189

calibration
 in image editing process, 4
 of monitors, **22–28**, 24–29
 tools for, 7

camera RAW files
 characteristics of, **331–333**, 331
 working with, **333–337**, 334

cameras
 resolution, **320–321**
 working with, **38**

canvas size for windows, 225, 230, 230

captainhook.psd file, 247

capture problems, anomalies from, 83

cathode ray tubes (CRTs) in film recorders, 273

Channel Mix Grayscale tool, 162

channels
 in compositing, **195–197**
 creating, **43–49**, 49
 mixing, 156–157, **160–162**, 160–161

Channels palette, 14

cleanup
 for color, **112–113**, 112–113
 for tone, **72–73**

Clear Grayscale tool, 105

Clear Guides tool
 for transformations, 202
 in window creation, 229

Click state for rollovers, 297–298, 297

clipping in histograms, 79, 84

clipping paths for vectors, **248–251**, 249–250

Clone Stamp tool
 for color cleanup, 112
 for patterns, 219
 purpose and location of, 7
 shortcut and description for, 318
 for tone, **73–75**, 73

Clouds filter, 220–222, 221

- CMY Color tool, 166
- CMY Separation tool, 168
- CMY Setup tool, 165
- CMYK color mode, 17–18, 18, 173–174
 - converting RGB to, 18, 259–260
 - drivers for, 262–263
 - vs. duotones, 146–147
 - output settings for, 262
 - PDF files for, 262–263
 - previewing, 267–269
 - for printing, 17, 174–176, 175–176
 - separation, 163–164
 - black separation in, 168–173, 170–173
 - making, 164–168, 165–168
 - testing, 260–261, 261
- CMYK.pdf file, 260–262
- CMYK Process tool, 172, 174, 268
- CMYK Process Effect tool, 172
- color
 - in 16-bit images, 18
 - for animation, 302
 - balance, 138–140, 138–139
 - and bit depth, 329
 - calculations for, 156–159, 156, 158–159, 162–163
 - channel mixing for, 156–157, 160–162, 160–161
 - cleanup for, 112–113, 112–113
 - color modes, 12–13
 - Color Settings dialog box, 31–32, 31
 - color space, 29–30
 - converting
 - black-and-white images to, 53–55, 55
 - to black-and-white images, 43–53, 49, 51–52
 - in cropping, 184
 - curves for, 120–127, 122, 124
 - duotones for. *See* duotones
 - in GIF images, 278–280, 283
 - gradients. *See* gradients and gradient maps
 - hand-coloring, 57–59, 58–59
 - History Brush for, 140–145, 141–142
 - Hue/Saturation for, 130–131, 130
 - in image editing process, 4–5
 - in JPEG images, 278–279, 283
 - levels correction for, 116–120, 116, 118–119
 - luminosity extracted from, 50–51, 51
 - managing, 20–22
 - in monitors, 321
 - noise in, 113–116, 114–115
 - preferences for, 28
 - in printing, 258–259
 - saturation masking. *See* saturation masking
 - separating. *See* separations
 - as tone, 12–14, 13
 - tools for, 7–9
 - types of, 14–18, 16–18
 - for Web Photo Gallery, 288
- Color Balance tool
 - purpose and location of, 8
 - working with, 138–140, 138–139
- Color blend mode, 331
- Color Burn blend mode, 330
- Color Dodge blend mode, 330
- Color Noise Reduction control, 337
- Color Picker dialog box
 - for blue component, 48
 - for gradients, 65, 67
 - for green component, 47
 - for projected light, 54–55
 - for red component, 46
 - for Web Photo Gallery, 288
- color ranges for saturation masking, 133–136, 134–136
- Color Settings dialog box, 31–32, 31
- color stops for gradients, 61
- color temperature, 23, 27
- Color tool, 8
- Colorize option, 131
- colspan attribute, 295
- columns for slice positioning, 293–295, 294–295
- Combine tool, 241
- Combine Vectors tool, 249, 250
- combining shapes, 241
- comments in HTML, 283
- Commit Mode for saturation masking, 136–137
- Commit Transparency tool, 190
- components, color, separating, 43–59, 49

- Composite layer for color and tone, **57**
 - composition, **179**
 - compositing elements in, **192–193**, *194*
 - alpha channels in, **195–197**
 - arranging parts in, *195*, *196*
 - backgrounds in, **195**, *195*
 - extracting elements in, **193**
 - cropping for, **183–185**, *184–185*
 - isolating elements in, **185–192**, *186*, *188–191*
 - tips for, **180–183**, *181–182*
 - tools for, *8–9*
 - compression
 - characteristics of, **327–328**
 - of GIF images, *279*
 - of JPEG images, *279*
 - constant elements in animation, *308*
 - constant speed in animation, **307**, *307*
 - contrast
 - boosting, **94–99**, *96–98*
 - curves for, **88–94**, *89–93*
 - gradients for, **64–65**, *65*
 - in image editing, **11–12**, *11*
 - in monitor calibration, *25*
 - Contrast control for RAW files, *336*
 - contrastfix.psd file, *92*
 - Convert CMYK Before Printing option, *262*
 - converting
 - black-and-white images to color, **53–55**, *55*
 - in CMYK color separation, *165–169*, *167–168*
 - color images to black-and-white, **43–53**, *49*, *51–52*
 - RGB color
 - to CMYK, *18*, **259–260**
 - to Indexed Color, *16*
 - text to vectors, **244**
 - Copy tool, *8*
 - Create Texture option, *78*
 - Create Warped Text option, *245*
 - Create Web Photo Gallery dialog box, *243*, *287*, *287*
 - Creation Setup dialog box, *288*
 - Crop tool and cropping, *183*
 - for composition, **183–185**, *184–185*
 - paper, *272*
 - purpose and location of, *8*
 - shortcut and description for, *317*
 - for slices, *291*
 - tools for, *8*
 - Web images, *283*
 - Crop1.psd file, *185*
 - Crop2.psd file, *185*
 - CRTs (cathode ray tubes) in film recorders, *273*
 - curtainmap.psd file, *232–233*
 - curtains
 - creating, **231–232**, *231–232*
 - shadows for, **232–234**, *233–234*
 - Curves tool and curves, *88*, *225*
 - for CMYK color separation, *173*
 - for color correction, **120–127**, *122*, *124*
 - for contrast, **88–94**, *89–93*
 - for duotones, *148–149*, *148–149*, *151–153*, *151–152*
 - interface for, **89–90**
 - manipulating, **91–94**, *91–93*
 - purpose and location of, *8*
 - for textures, *223*, *223*
 - in window creation, *225*, *228*, *228*
 - Custom Colors tab, *288*
 - Custom Phosphors screen, *26*, *26*
 - custom picture packages, **269–271**, *270–271*
 - Custom Shape tool and custom shapes, **242–244**, *243*
 - shortcut and description for, *317*
 - for vectors, *240*
 - cycles in animation, *303*
-
- D**
- damage
 - Healing Brush for, *77*
 - planning for, *72*
 - tools for, *7–8*
 - dark tones, gradients for, **64–65**, *65*
 - Darken blend mode
 - for Clone Stamp, *75*
 - quick keys and effects of, *330*
 - darkroom sharpening effect, *162*
 - DCS EPS files, printing, **174–176**, *175–176*
 - DCS Templates tool, *10*

deceleration in animation, **307**, *307*
 decimating images, 35
 Default Foreground and Background Colors tool, 319
 Define Pattern option, 219
 delays in animation, 305
 Delete Selections and Alphas tool, 196–197
 depth of field in composition, 182, *182*
 Description field for ICC profiles, 25, *25*
 Difference blend mode
 for CMYK color separation, 169
 quick keys and effects of, 331
 for saturation masking, 136
 Difference Clouds filter, 221–222, *221*
 digital cameras
 resolution, **320–321**
 working with, **38**
 Digital Negative (DNG) file formats, 332
 directories for Web images, 283
 dirty lenses, 74
 Displace filter, 233, *234*
 Display & Cursors preferences, 74
 Display Calibrator Assistant, 7, *23*
 Dissolve blend mode, 330
 Distort option for Transform, 201, *201*
 distortions
 in animation, 309
 with transformations, **200–203**, *200–202*
 Distribution Type setting, 99
 DNG (Digital Negative) file formats, 332
 Dodge tool, 318
 dot pitch for monitors, 321
 dots
 halftone, 255–256, *255*
 printer, 254
 dots per inch (dpi) resolution, 33
 for printing, 254–255
 for scanners, 319
 Down state for rollovers, 297–298, *297*
 downloading Web graphics, **283–284**
 downsampling images, 35, *37*
 dpi (dots per inch) resolution, 33
 for printing, 254–255
 for scanners, 319

drivers for printing, **262–263**
 Drop Black tool, 137
 drop shadows, 191, *191*
 in compositing, 195
 for separations, 185–186
 Soft Edge option, 227, *230*
 dual-purpose images, **37**
 Duotone Bar tool, 153
 Duotone_Preview_bar.psd file, 153
 Duotone Setup tool, 153
 duotones, **145–146**, *145*
 applying, **149–153**, *150–152*
 creating, **146–149**, *148–149*
 printing, **154**, *154–155*
 for tonal corrections, **155–156**, *156*
 duotoning.psd file, 149
 duplication for tone, **75–76**
 dust
 Healing Brush for, 77
 preventing, 72
 Dust and Scratches filter, 116

E

edges, printing to, **272**, *272*
 8-bit images, 15, 18–19
 effects in compositing, 195
 efficiency of color, 18
 elements
 creating, **216–217**
 patterns for, **217–219**, *217–220*
 textures for, **219–224**, *221*, *223*
 Ellipse tool
 shortcut and description for, 317
 for vectors, 240
 Elliptical Marquee tool, 317
 Embed Color Profile option, 30
 embedded profiles, 20–21
 Emboss filter, 221–223, *221*
 EPS format files
 color modes and purpose of, 326
 printing, **174–176**, *175–176*
 separations for CMYK, 268
 equipment for image editing, **38–39**

Eraser tool
 in duplication, 76
 shortcut and description for, 317
 in window creation, 229, 229
 evaluation tools, 7
 Exclude Overlapping Shape Areas mode, 240
 Exclusion blend mode, 331
 Exposure control for RAW files, 336
 extracting elements, **193**
 Eyedropper tool
 for curves, 90, 92
 purpose and location of, 7
 for saturation masking, 134
 shortcut and description for, 319
 for tones, **78–79**

F

factory settings for monitor, 24
 fading contrast, curves for, **88–94**, 89–93
 field depth in composition, 182, 182
 file types, **326–327**
 compression with, **327–328**
 for Web graphics, **278–281**
 fill layers
 for blue component, 48
 for green component, 47
 for patterns, 219, 219
 for projected light, 54–55
 for red component, 46
 for RGB, 54
 for saturation masking, 133–134
 film
 analog, **38**
 duotones for, 154
 film recorders
 characteristics of, **273**
 resolution for, 35
 filters
 for grayscale, 14
 sharpening. *See* sharpening
 for textures, **220–222**, 221
 finger smudges, 72
 fishhook shape, **242–244**, 243
 Fixed Size option, 209

flatbed scanners, 320
 Flatten command, purpose and location of, 9
 Flatten Image command and flattened images
 for duotones, 153
 for hand-coloring, 58
 for separations, 45
 flip books, 302
 flipping in composition, 182–183
 fly-away hair, 192
 Focoltone colors, 148
 fonts
 converting to vectors, 244
 for Web pages, 284
 for Web Photo Gallery, 288
 formats for vector images, 250
 frames
 for animation, 302–306, 304
 for windows, **225–227**, 225–227
 Free Transform option, 201, 206
 Full Color Management option, **32**
 full toned images in histograms, 82, 82

G

gamma
 Adobe Gamma for, **24–28**, 24–29
 for tonal response, 23
 gaps in histograms, 82–83, 86, 86
 Gaussian Blur tool
 for noise, 99–100, 115
 purpose and location of, 9
 for textures, 223
 Gaussian distributions, 100, 100
 GIF (Graphics Interchange Format)
 for animation, 302
 characteristics of, **278–280**
 color modes and purpose of, 326
 for downloaded images, 283–284
 Global Angle option, 227
 Gradient Editor, **60–64**, 60
 Gradient Map dialog box, 60
 Gradient tool, 59, 318
 Gradient Used For Grayscale Mapping
 swatch, 63
 gradients and gradient maps, 9, **59–61**, 60

- applying, **62–64**
- buttons for, **61**
- for color, **66–68**, 67
- for contrast, **64–65**, 65
- for duotones, 147, 148, 153
- editing, **62**
- masks for, **68–70**, 68–69
- names for, 61
- opacity and color stops for, **61–62**, 66, 68
- for textures, 220, 221
- Graphics Interchange Format (GIF)
 - for animation, 302
 - characteristics of, **278–280**
 - color modes and purpose of, 326
 - for downloaded images, 283–284
- grays
 - for color references, **120–127**, 122, 124
 - for curves, 89
 - in halftone printing, 257
- grayscale images. *See also* black-and-white images
 - 8-bit, 19
 - color representation in, 13–14
 - DCS files, 174
 - from duotones, 154
 - file size of, 34
 - gray tone levels in, 16, 16
 - profiles for, 32
- green component, creating, **47–48**
- grip edges, 272
- Group With Previous Layer option, 125–126
- Guides tool and guides
 - purpose and location of, 8
 - for slices, 290, 291
 - for transformations, 202, 205–206
 - in window creation, 228–229

H

- hair, fly-away, 192
- halftone screening, 254
- halftones
 - printing, 146, **255–258**, 255, 258
 - resolution for, 35
- halo effects, 96–97, 97, 163

- hand-coloring, **57–59**, 58–59
- Hand tool, 319
- Hard Light blend mode, 330
- harmonious color for duotones, 147–148
- Healing Brush tool
 - purpose and location of, 7
 - shortcut and description for, 318
 - for tone, **76–78**
- Hertz, 321
- hex values, 15
- Hidden Power tools, installing, 49
- hiddenlibrary.psd file, 242
- high-contrast images in histograms, 80, 81
- high-key images in histograms, 80, 81
- highlights
 - for color balance, 139
 - in histograms, 87
- histograms
 - for color, 119, 119
 - purpose and location of, 7
 - for tones, **79–85**, 80–84
- History Brush tool
 - application of, **144–145**
 - for color, **140–143**, 141–142
 - preparation for, **143–144**
 - purpose and location of, 9
- History palette, 10, 10
- Horizontal Type tool, 318
- Horizontal Type Mask tool, 318
- horsehead.psd file, 103, 103
- hosts, web, 285
- HSB color scheme, 65
- HSB measurements, 130
- HTML (Hypertext Markup Language), inserting
 - Web images in, **284–286**
- html tags, 286
- hue, 56, 130
- Hue blend mode, 331
- Hue/Saturation dialog box
 - for blue component, 48
 - for CMYK separation, 167–168, 167–168
 - for color, **130–131**, 130
 - in curtain creation, 232
 - for duotones, 145–146, 145
 - for green component, 47

purpose and location of, 8
 for red component, 46
 for saturation masking, 134–136, *134*, *136*
 in window creation, 228–229, 229

ICC profiles, 22–28, 24–29, 30
 image editing process, 3–4
 checklist for, 4
 color in. *See* color
 correction in, 5
 equipment for, 38–39
 preparation for, 4–5
 purposing in, 6
 resolution in, 32–33
 for images types, 34–35
 measuring, 33–34
 resizing images, 35–37
 tonal range and contrast in, 11–12, *11*
 Image Size dialog box, 174–175, *175*
 Image Size palette, 218
 Image Size panel, 281
 Image Size tool, 8
 image tags, 286
 imagesetters
 duotones for, 154
 vs. laser printers, 257
 img tags, 294
 Impressionist Brush tool, 317
 Indexed Color mode, 15
 compression in, 279
 converting RGB to, 16
 profiles for, 32
 Info palette
 for grays, 121
 purpose and location of, 7
 for tones, 78, 78
 ink, 254
 inkjet printing, 35, 254, 258–259, 259
 input resolution, 319–321
 inserting Web images, 284–286
 Intent setting in printing profiles, 266–267
 interpolation, 35–37, 323–325
 Intersect Shape Areas mode, 240

Invert option for layers, 171
 isolating elements, 185–186

JavaScript for rollovers, 297–301
 JPEG (Joint Photographic Experts Group)
 format
 characteristics of, 278–279
 color modes and purpose of, 326
 for downloaded images, 283–284
 from RAW files, 332–333

Kodak Photo CD scanning, 320

Large Photos tab, 288
 laser printers
 vs. imagesetters, 257
 for PostScript printing, 254
 Lasso tool
 for duplicating, 76
 shortcut and description for, 317
 Layer Styles, 227, 227
 layers
 for 16-bit images, 15
 for blue component, 48
 for channel mixing, 160–161
 for CMYK color separation, 165–170, *165*
 for color calculations, 158–159
 for curves, 88
 for duotones, 151–152
 for gradients, 59, 68
 for green component, 47
 for Hue/Saturation, 131
 for luminosity, 50
 for masking, 104
 for projected light, 54–55
 for red component, 45–46
 for RGB, 54
 for saturation masking, 133
 for snapshots, 141
 for textures, 220–221

LED (light-emitting diode) printing, 274

levels

- for CMYK color separation, 173
- for color correction, **116–120**, 116, 118–119
- for curves, 89
- for histograms, 79
- for saturation masking, 136
- for tones, **85–87**, 86

Levels tool, 7, 9

libraries for shapes, 242

light

- for buttons, **209–211**, 211
- projected, **54–55**, 55
- tonal range of, **11–12**, 11
- for tree shadows, **211–215**, 211–212, 214–216

light-emitting diode (LED) printing, 274

Lighten blend mode

- for Clone Stamp, 75
- quick keys and effects of, 330

lighting for monitor calibration, 24

lightness for tone, 130

lily.psd file, 50, 59

Limited Color Management option, 31

line art resolution, 35

line screen setting, 255

Line tool

- shortcut and description for, 317
- for vectors, 240

Linear Burn blend mode

- for channel mixing, 161
- quick keys and effects of, 330

Linear Dodge blend mode

- for channel mixing, 160–161
- quick keys and effects of, 330

Linear Light blend mode, 331

lines per inch (lpi) resolution, 33, 255–256

links

- for rollovers, 300
- for Web images, 283, 288

Liquify tool, 200

local contrast, sharpening, **97–99**, 98

Lock Transparent Pixels option, 191

logos, scalable vector art for, **244–248**, 246–248

lossless compression, 279

lossy compression, 327

low contrast images in histograms, 82

low-key images in histograms, 80, 80

lpi (lines per inch) resolution, 33, 255–256

Luminance Smoothing control, 337

luminosity, separating, **49–51**, 51

Luminosity blend mode, 331

luminosity masks, **170**, 170

Luminosity tool, 8

M

Magic Eraser tool, 318

Magic Wand tool

- for selections, 187–188
- shortcut and description for, 317

Magnetic Lasso tool, 317

Make Clipping Path option, 250

Make CMYK Split tool, 268

Make Guide tool

- for slices, 290
- for transformations, 202, 205–206
- in window creation, 228

Make Work Path dialog box, 242

manual selections, **187–188**, 188maps, gradients. *See* gradients and gradient maps

Marquee tool

- Fixed Size option, 209
- purpose and location of, 8
- for slices, 291
- for windows, 205

Mask mode for Selection Brush, 187

Masking tool, 7–9

masks

- for color calculations, 159
- for gradients, **68–70**, 68–69
- for isolating elements, 185
- saturation, **131–133**, 132, **136–138**
 - in CMYK color separation, **169**
 - color ranges for, **133–136**, 134–136
 - preparation for, **133**
- for textures, 223
- with tones, **102–108**, 103–107

measuring resolution, **33–34**

Median filter, 116
 medium-key contrast images in histograms, 82, 82
 Merge command, 9
 Merge Down option
 for blue component, 48
 in curtain creation, 231
 for green component, 47
 for luminosity, 50
 for masking, 105
 for red component, 46
 in window creation, 225–226
 Merge Linked option
 for blue component, 48
 for green component, 48
 for red component, 47
 Merge Visible option, 208
 midtones
 for color balance, 139
 contrast for, 91, 91
 masks for, 108
 mixing channels, 156–157, **160–162**, 160–161
 Mode tool, 7, 9
 moire patterns, 256, 258
 monitors
 calibrating, **22–28**, 24–29
 in image editing process, 4
 profiles, 21–22
 resolution and settings, **321–323**
 Monochromatic option for noise, 100
 Move tool, 317
 movies. *See* animation
 moving curve points, 90
 multi-layered approach for hand-coloring, 59
 Multiply Blending Mode
 for blue component, 48
 for duotones, 150
 for green component, 47
 quick keys and effects of, 330
 for red component, 46
 multipurpose images, 37

names
 gradients, 61

ICC profiles, 25, 25
 Web images, 283
 Nearest Neighbor interpolation, **36**, 324–325
 negatives, scanners for, 320
 New command, 7
 New Image dialog box, 309, 312
 new_perspectives.psd file, 209, 211, 213
 No Color Management option, **31**
 noise
 in color, **113–116**, 114–115
 managing, **99–101**, 100, 102
 in textures, 222
 Noise filter, 222
 Normal blend mode
 for Clone Stamp, 75
 quick keys and effects of, 330
 Normal state for rollovers, 297–298, 297
 Note Paper filter, 221–222, 221

object creation, **224–225**
 curtains, **231–232**, 231–232
 placement in, **235**, 235
 shadows, **232–234**, 233–234
 window, **225–231**, 225–230
 oceansun.psd file, 63, 64
 offset color, 258
 Offset dialog box, 218, 219
 offset printing, **273**
 Offset setting for Displace filter, 233
 onMouse command, 298
 onMouseOut command, 299
 onMouseOver command, 299
 opacity
 in channel mixing, 161
 in cropping, 184
 for gradients, **61–62**, 66, 68
 for textures, 223
 optimizing
 tools for, 9
 Web graphics, 281
N Option/Alt key for selection, 73–74
 Options bar for vectors, 240–241, 240
 orchid.psd file, 185–192, 185–186, 188–191

- orientation of guides, 205–206
 - Out state for rollovers, 297–298, 297
 - output resolution, **323**
 - Over state for rollovers, 297–298, 297
 - overlap with slices, 290
 - Overlay blend mode, 330
-
- P**
- packages, picture, **269–271**, 270–271
 - packaging images, tools for, 10
 - Page Size setting, 269
 - Paint Bucket tool
 - for gradients, 69
 - shortcut and description for, 317
 - painting color changes, **140–145**, 141–142
 - Painting Cursors, 74
 - PANTONE colors, 148
 - paper
 - perforated, 272
 - for printing, **264–266**
 - Paste tool, 8
 - patching for tone, **75–76**
 - Pattern Stamp tool, 318
 - patterns, **217–219**, 217–220
 - PCT (PICT) format, 326
 - PCX (PC Exchange) format, 326
 - PDF files
 - color modes and purpose of, 326
 - for printing, **262–263**
 - Pencil tool, 318
 - percentages
 - for channel mixing, 157
 - for curves, 89
 - for grays, 123
 - Perceptual value in printer profiles, 266–267
 - perforated paper, 272
 - performance of rollovers, 300
 - perspective, 200–202, 200–202
 - Perspective Transform mode
 - in curtain creation, 232
 - description, 201, 201
 - perspectives.psd file, 202–203, 218
 - phosphors, 23, 26, 26
 - Photo Bin, 289
 - Photo CD scanning, 320
 - photo-quality inkjet printers, 254
 - photo-quality paper, 265–266
 - Photoshop documents (PSD) format, 326
 - PICT (PCT) format, 326
 - Picture Edit Layout screen, 269, 270
 - picture packages, **269–271**, 270–271
 - Pin Light blend mode, 331
 - Pixar Computer Images (PXR) format, 327
 - pixels
 - in camera resolution, 320
 - redistributing, 35
 - pixels per inch (ppi) resolution, 33–34, 323
 - placement DCS files, 174–175, 175
 - planning
 - animation, **303–305**, 304
 - composition, 180
 - for damage control, **72**
 - PNG (Portable Network Graphics) format, 327
 - point and shoot, 182
 - points for curves, 90
 - Polygon tool
 - shortcut and description for, 317
 - for vectors, 240
 - Polygonal Lasso tool, 208
 - for gradients, 68–69
 - purpose and location of, 8
 - for shapes, 242, 243
 - shortcut and description for, 317
 - Portable Network Graphics (PNG) format, 327
 - PostScript printing, 254–255
 - ppi (pixels per inch) resolution, 33–34, 323
 - preload function, 300
 - preloading images for rollovers, 300–301
 - Preset panel for Web graphics, 281
 - Presets panel for gradients, 61
 - Preview CMYK tool, 268
 - Preview panel for Web graphics, 281
 - Preview RGB tool, 55, 126
 - Preview Selection tool, 196–197
 - previewing CMYK color, **267–269**
 - Print Preview dialog box, 266, 269

Print Size option, 321
 Print Space, 266
 Print To File option, 262
 printers, **39, 254**
 printing, **253**
 Adobe RGB workspace for, 30
 CMYK for, 17
 converting RGB color to, **259–260**
 for DCS EPS files, **174–176, 175–176**
 drivers for, **262–263**
 duotones, **154, 154–155**
 to edges, **272, 272**
 film recorders for, **273**
 halftones, 146, **255–258, 255, 258**
 LED, **274**
 offset, **273**
 output settings for, **262**
 paper for, **264–266**
 PDF files for, **262–263**
 picture packages for, **269–271, 270–271**
 previewing, **267–269**
 profiles for, **266–267**
 resolution for, **254–259**
 RGB for, **264**
 services for, **264**
 stochastic, **258–259, 259**
 printing plates, duotones for, 154
 PRN files, 263
 profiles
 color, 20–21
 ICC, **22–28, 24–29, 30**
 monitor, 21–22
 printing, **266–267**
 projected light from tones, **54–55, 55**
 Prokudin-Gorskii, Sergei Mikhailovich, images
 by, 13
 capture of, 332
 cleanup for, 112, **113**
 separations for, 45, 53
 Proximity Match option, 78
 PSD (Photoshop documents) format, 326
 purposing in image editing, **6**
 PXR (Pixar Computer Images) format, 327

Q

quality
 of JPEG images, 279
 vectors for, 248, 248

R

Radius setting for Unsharp Mask, **95–98**
 ranges for saturation masking, **133–136**
 RAW files
 characteristics of, **331–333, 331**
 color modes and purpose of, 327
 working with, **333–337, 334**
 reader requests, **338**
 Rectangle tool
 shortcut and description for, 317
 for vectors, 240
 Rectangular Marquee tool
 shortcut and description for, 317
 for window selection, 206
 red component, creating, **45–47**
 Red Eye Brush tool, 318
 redistributing
 pixels, 35
 tones, **85–87, 86**
 Reduce Color Noise tool, 116
 Reduce Noise Filter, 7
 refresh rate for monitors, **321–322**
 Relative Colorimetric value, 266–267
 relative links for Web images, 283
 Remove Black Color tool, 172
 repeating images on Web pages, 283
 resampling
 images, 35
 in window creation, 225
 resetting monitors, 24
 reshaping elements, **199**
 light and shadow for, **209–215, 211–212, 214–216**
 transformations. *See* transformations
 resizing
 in animation, 309
 CMYK files, 174–175, **175**
 images, **35–37**
 vector images, 248

- resolution, **32–33**
 - of film recorders, 273
 - in image editing process, 4
 - for image types, **34–35**
 - input, **319–321**
 - measuring, **33–34**
 - monitors, **321–323**
 - of multipurpose images, 37
 - output, **323**
 - for printing, **254–259**
 - resizing images, **35–37**
 - tools for, 7
 - of Web images, **280, 283**
- RGB color mode, 12–13
 - 8-bit images in, 15
 - combinations in, 164
 - converting
 - to CMYK, 18, **259–260**
 - to Indexed Color, 16
 - for printing, **264**
 - profiles for, 32
 - workspace, **29–30**
- RGB layers for converting black-and-white images to color, **54**
- RGB.psd file, 164
- RGB tool, 8
- RGBL color, 127
- RGBL separations tool, 8
- rollovers, 283, **297–301, 297**
- rose.psd file, 119–120, 119
- rotating with Transform, 201, 201
- Rotation control for RAW files, 337
- Rounded Rectangle tool
 - shortcut and description for, 317
 - for vectors, 240
- rows for slice positioning, 293–295, 294–295
- rowspan attribute, 295
- RSR file type, 327
- ruler, 205
- saturation, color, 56, 130
- Saturation blend mode, 331
- Saturation control for RAW files, 336
- saturation masking, **131–133, 132**
 - in CMYK color separation, **169**
 - color ranges for, **133–136, 134–136**
 - masks for, **136–138**
 - preparation for, **133**
- Saturation Masking tool, 138
- Saturation value in printer profiles, 266–267
- Save As command, 7, 9–10
- Save For Web command, 10
- Save For Web dialog box
 - for animation, 302
 - options in, 280–281, 282
 - for slices, 291
- Save Optimized As dialog box, 281
- Save Slice tool, 291
- saving
 - slices, 291
 - tools for, 7, 9–10
 - vector images, 250
 - Web graphics, **280–281**
- scalable art, vectors for, **244–248, 246–248**
- scaling with Transform, 201, 201
- scanners
 - maintenance tasks for, **38**
 - resolution, **319–320**
- scattered highlights in histograms, 87
- Scitext Continuous Tone (SCT) format, 327
- Screen Blending Mode
 - for blue component, 48
 - for CMYK color separation, 172
 - for duotones, 150
 - for green component, 47
 - quick keys and effects of, 330
 - for red component, 46
- screening in halftone printing, 254–256
- scrolling in Web pages, 284
- SCT (Scitext Continuous Tone) format, 327
- seamless patterns, **217–219, 217–220**
- Selection Brush tool
 - shortcut and description for, 317
 - working with, 187

S

sample size for Eyedropper, 78–79, 92

samples per inch (spi) resolution, 33

selections

- calculations for, **188–190**, 189
- for Clone Stamp, 73–74
- for duplicating, 76
- for Healing Brush, 77
- for isolating elements, **185–191**, 188–191
- manual, **187–188**, 188

SeparateShoes.psd file, 311

separations

- CMYK color, **163–164**
 - black color in, **168–173**, 170–173
 - making, **164–168**, 165–168
- color from tone, **43**, **56–57**, 57
 - borrowing tones in, **51–53**, 51–52
 - channels for, **43–49**, 49
 - color component in, **56–57**, 57
 - compositing in, **53–55**, 55
 - gradients for. *See* gradients and gradient maps
 - hand-coloring in, **57–59**, 58–59
 - luminosity in, **49–51**, 51

for duotones, 154

Separations tool, 10

services for printing, **264**

Set Background Color tool, 319

Set Foreground Color tool, 319

Settings control for RAW files, 336

shadows, 191, 191

- for buttons, **209–211**, 211
- for color balance, 139
- in composition, 181, 181, 195
- in histograms, 87
- masks for, 103–105, 103–105
- for separations, 185–186
- Soft Edge option, 227, 230
- for trees, **211–215**, 211–212, 214–216
- for windows and curtains, **232–234**, 233–234

Shadows control for RAW files, 336

Shape tool, 240–241

Shape From Selection tool, 242, 247

Shape From Text tool, 244, 246

Shape Selection tool, 240

- shortcut and description for, 317
- for vectors, 240–241, 243

shapes

- light and shadow for, **209–215**, 211–212, 214–216
- printer dots, 254
- transformations for. *See* transformations

Sharpen tool

- shortcut and description for, 318
- for unsharp masking, 163

Sharpen Plus tool, 163

sharpening

- calculations for, **162–163**
- local contrast with, **97–99**, 98
- Unsharp Mask filter, **94–97**, 96–97

Sharpness control for RAW files, 337

shortened tonal range, 83–85

Show More Options option, 266

sidewalk object, **204**, 205

silhouette.psd file, 85

silhouettes, 80

Simple Inner Bevel option, 227

16-bit images, **18–19**

- vs. 8-bit, 15
- advantages and disadvantages of, **337–338**

size

- 16-bit images, 15
- in animation, 309
- in camera resolution, 320
- canvas, 225, 230, 230
- CMYK files, 174–175, 175
- halftone dots, 255–256
- image files, 33–34
- monitors, 321–322
- picture packages, 269
- tools for, 8
- vector images, 248
- Web graphics, **282–284**

sketching

- animation, 303
- slices, 290, 291
- Web images, 284

skew for shadows, 214, 214

Skew On Center keys, 214

Skew option for Transform, 201, 201

skin tones, 120

Sky Gradient gradient map, 69
 slice1.jpg file, 294
 slice5.jpg file, 294–295
 slices, **289**
 cutting, **290–292**, 290–291
 positioning, **292–296**, 294–295
 slicetext.html file, 292
 Smudge tool, 318
 smudges, 72
 Snap To Grid feature
 in curtain creation, 231
 in window creation, 230
 Snap To option for slices, 291
 snapping, curves for, **88–94**, 89–93
 Snapshot tool, 140–141
 snapshots, 140–141, 141
 Soft Edge option, 227, 230
 Soft Light blend mode, 330
 software, **39**
 Solid Color option
 for blue component, 48
 for green component, 47
 for red component, 46
 spi (samples per inch) resolution, 33
 spikes in histograms, 79
 Split Luminosity tool
 in color separation, 50–51, 169
 in unsharp masking, 163
 Split RGB tool, 49
 for channel mixing, 161
 for color correction, 125
 for layers, 54
 for transformations, 202
 Split RGB w-Preview tool
 for channel mixing, 160–161
 for separations, 55
 Split RGBL tool
 for color correction, 127
 for unsharp masking, 163
 Sponge tool, 318
 spot colors, 146, 148
 Spot Healing Brush tool
 shortcut and description for, 319
 for tone, **78**
 Spyder device, 29

src reference, 296
 sRGB workspace, **29–30**
 states for rollovers, **297–298**, 297
 stochastic printing, 254, **258–259**, 259
 Stops options for gradients, **62**
 Stretch To Fit option, 233
 Style Settings dialog box, 227, 227
 Styles and Effects palette, 227
 Subtract From Sample Eyedropper tool, 134
 Subtract From Shape Area mode, 240
 subtractive color, 17
 swap command, 298–301
 Switch Foreground and Background Colors
 tool, 319

T

tables for slices, 292–295, 294–295
 Tagged Image File Format (TIFF)
 color modes and purpose of, 327
 from RAW files, 332
 tails in histograms, 87
 Targa (TGA) format, 327
 targets for color correction, 131
 td tags, 292–296
 teapot image, compositing, **193–197**, 194–196
 temperature, color, 23, 27
 Temperature control for RAW files, 336
 templates for Web Photo Gallery, 287
 testing
 CMYK color, **260–261**, 261
 paper, **265–266**
 Web pages, 284
 text
 converting to vectors, **244**
 warped, 245–247, 246–247
 Text To Shape command, 9
 textures, **219–224**, 221, 223
 TGA (Targa) format, 327
 third-party printer drivers, 262
 35 mm film, 273
 Threshold setting
 for levels, 207, 208
 for noise, 222
 for Unsharp Mask, **95**

thumbnails in Web Photo Gallery, 286–288

TIFF (Tagged Image File Format)

- color modes and purpose of, 327
- from RAW files, 332

timing for animation, 302

Tint control for RAW files, 336

tolerance levels for Unsharp Mask, 95

tonal range

- for duotones, 148
- in image editing, 11–12, 11

toner, 254

tones and tonal corrections, 71

- for black-and-white images, 51–52
- brightness for, 130
- cleanup for, 72–73
- Clone Stamp for, 73–75, 73
- color as, 12–14, 13
- curves for, 88–94, 89–93
- duotones for, 155–156, 156
- duplication for, 75–76
- Eyedropper for, 78–79
- healing tools for, 76–78
- histograms for, 79–85, 80–84
- in image editing process, 5
- masking with, 102–108, 103–107
- noise in, 99–101, 100, 102
- redistributing, 85–87, 86
- separating from color. *See* separations
- sharpening for, 94–99, 96–98
- tools for, 7, 9

toolbox, 316–319, 316

tr tags, 292–296

Transform tool

- purpose and location of, 8
- working with, 200–203, 201–202

transformations, 199–203, 200–202

- in animation, 309
- backgrounds for, 202–204
- sidewalk object, 204, 205
- tree object, 207–209, 207–209
- window object, 205–206, 206

transparency, 190

Transparent Grayscale tool

- for color calculations, 159
- for tones, 107

tree objects

- isolating, fixing, and positioning, 207–209, 207–209
- shadows for, 211–215, 211–212, 214–216

TRUMATCH colors, 148

2-bit images, 328

24-bit images, 328

U

Undo History palette, 213

Uniform noise distributions, 99–101, 100

Units & Rulers option, 205

unsharp masking

- calculations for, 162–163
- Unsharp Mask filter, 94–97, 96–97, 162–163

Unsharp Masking tool, 9

Up state for rollovers, 297–298, 297

upsampling images, 35, 37

URLs for web pages, 285

Use All Layers option, 112

Use Cache For Histograms option, 86

Use Global Light option, 227, 227

V

vectors, 239

- clipping paths for, 248–251, 249–250
- converting text to, 244
- for halftone printing, 258, 258
- making, 240–244, 240, 243
- for scalable art, 244–248, 246–248

Vertical option for guides, 205–206

Vertical Type tool, 318

Vertical Type Mask tool, 318

View Single Gamma Only option, 26

View Source option, 286

viewing size of monitors, 321–322

vince.psd file, 113–116, 114–115

Visited Links for Web Photo Gallery, 288

Vivid Light blend mode, 330

W

wallpattern.psd file, 222

warped text, 245–247, 246–247

wavedirt.psd file, 74

Web graphics, 277

animation. *See* animation

download minimization, 283–284

file types for, 278–281

inserting, 284–286

resolution for, 34–35, 280, 283

rollovers, 297–301, 297

saving, 280–281

size of, 282–284

slices, 289

cutting, 290–292, 290–291

positioning, 292–296, 294–295

Web Photo Gallery, 286–289, 287

wedding images, exposure problems in, 84

White Balance control for RAW files, 336

white points, 23, 27, 27

white-to-black gradients for duotones, 147, 148

window objects

creating, 225–231, 225–230

isolating, fixing, and positioning, 205–206, 206

placing and fitting, 235, 235

shadows for, 232–234, 233–234

Wireless BMP format, 327

wisps of hair, 192

WiziWYG utility, 23

workspaces, 29–30

worms, drawing, 246–247, 246–247

Wrap Around option, 218

Z

zones for picture packages, 270

Zoom tool, 319