

Index

Numerics

- 16-bit color mode
 - defined, 198
 - working in, 196
- 2000D strobe unit, 290
- 25-ft. grip trailer, 289
- 285HV strobe unit, 286, 290
- 5K, Strand, 290
- 800 strobe unit, 290
- 8-bit color mode
 - defined, 198
- 8-bit *versus* 16-bit color, 198

A

- action, growth path for shooting, 299
- Add Noise dialog box, 243
- additive colors, 133
- Adobe Gamma applet, 146
- Adobe RGB
 - as default color space, 180
 - defined, 138
- Advertising Photographers of America
 - See* APA
- alligator clip, 287, 295
- alpha channel, 244
- ambient light
 - effects on color perception, 145
 - effects on digital projector, 150
- American Society of Magazine Photographers
 - See* ASMP
- angle of incidence, 12
- angle of reflectance, 12
- angle, for composition, 92

- ANSI scanner targets, 156
- APA, 295
- aperture, 107
 - for asset management, 262
- Aperture Priority exposure mode, 109, 128
- archival-quality prints, 276
- artificial light source, 40
- ASA, 120
- ASMP, 295
- aspect ratio, locking, 238
- asset management
 - aperture, 262
 - audio annotations, 266
 - automatic image numbers, 258
 - camera orientation, 262
 - cataloging tools, 258
 - copy protection, 264
 - copyright, 262
 - EXIF data, 262
 - file naming, 258
 - focal length, 262
 - GPS data, 262
 - in portraits growth path, 297
 - IPTC data, 262
 - ISO data, 262
 - keyword tags in Photoshop Elements, 260
 - keywords, 260
 - metadata, 262
 - metering mode, 262
 - practices of news organizations, 262
 - products, 267
 - shooting and archiving, 256
 - shutter speed, 262
 - watermarking, 264
- audio annotations, for asset management, 266
- Automatic Exposure mode, 108
- automobile, lighting, 32

averaging, meter, 106, 128
Azo dye, 255

B

B400 strobe unit, 290
 in portraits growth path, 297
B800 strobe unit, 290
 in portraits growth path, 297
backdrop, 297
backlight, 30
banding, color, 242
barn doors, 26, 27, 293
battery pack
 in action growth path, 299
 MB-D100, 288
 POWERBank external, 286
battery, invention of, 270
Big Sur, California, 125
bit rate
 8-bit *versus* 16-bit, 198
 defined, 198
black and white effect, 246
black point, 194, 196, 197, 199
Black Point Compensation, 220
blacks
 adjusting when opening file, 188, 192
 adjusting with Levels, 197
 getting good neutral, in Photoshop, 218
blemishes, removing, 230
blues
 adjusting using Curves, 200
 adjusting when opening file, 182
 adjusting without using Curves, 202
boom stand, 295
brightness
 adjusting for Mac *versus* PC, 206
 adjusting when opening file, 190, 192

C

cable release
 in landscapes growth path, 298

calibrating
 a monitor, 143
 frequency of, 149
 a projector, 150
Camera & Imaging Products Association
 See CIPA
camera docking station, 214
camera level, 288
car, lighting, 32
card reader
 See memory card reader
cataloging tools, 258
CCD, 280
 cleaning kit, 294
 focal-length multiplier effect of, 280
CD, 254, 256, 257
 portable burner, 257
 tips on caring for, 255
cell phone
 in action growth path, 299
center-weighted metering, 106, 128
Channel Mixer tool, 247
channels, RGB, 196
chrominance noise, 240
CIPA, 214
circular polarizer filter, 51, 286, 288
 in action growth path, 299
 in landscapes growth path, 298
clear (UV haze) filter, 50, 286
Clone Stamp tool, 226, 230, 232
CMYK color, 184
 converting from RGB with RIP, 223
 defined, 133
 reducing banding in, 242
coins, lighting, 36
color
 additive, 133
 CMYK, 133, 184, 223
 creating with light, 39
 emotional power of, 71
 for composition, 70
 RGB, 133, 223
 subtractive, 133, 184
Color Balance, setting, 203
color bands, reducing, 242
color bars, 208



- color depth
 - 8-bit *versus* 16-bit, 198
 - defined, 198
 - Color Efex Pro, 54, 247
 - in gear bag, 287, 296
 - color intensity
 - adjusting using Curves, 200
 - adjusting using Levels, 197
 - adjusting when opening file, 192
 - adjusting without using Curves, 202
 - color laser printer, 164, 214
 - color management
 - defined, 131
 - disabling, 216, 218
 - examples of the problem, 132
 - in Mac OS, 216, 218
 - in Microsoft Windows, 147, 216, 218
 - in portraits growth path, 297
 - when printing from Photoshop, 220
 - when printing from Photoshop Elements, 216
 - color range, 196
 - Color Range dialog box, 248
 - color range selector tool, 227
 - Color Sampler tool
 - in Photoshop, 218
 - color space, 136
 - Adobe RGB, 138
 - CRT monitor, 136, 138
 - device-independent, 138
 - ink-jet printer, 136
 - sRGB, 138
 - color temperature, 40
 - adjusting when opening file, 182, 192
 - flash unit (strobe), 42
 - fluorescent, 42
 - incandescent, 42
 - open shade, 43
 - setting with eyedropper tool, 183
 - versus* heat, 41
 - Color Variations, setting, 202
 - colorimeter, 146
 - in gear bag, 287, 296
 - Commercial AW gear bag, 289
 - CompactFlash memory card, 214, 254, 286, 288
 - compass
 - in landscapes growth path, 298
 - compression, 210, 238
 - computer, custom-built, 296
 - cone
 - lighting examples, 24–25
 - lighting for shape, 22
 - Constrain Proportions, 238
 - contrast
 - adjusting for TV viewing, 209
 - adjusting to increase sharpness, 204
 - adjusting when opening file, 190, 192
 - dealing with extremes of, 116–119, 128
 - for composition, 88–90, 102
 - Convert to Profile, in Photoshop, 221
 - CoolPix 5700, 286
 - CoolScan 8000 transparency scanner, 296
 - copy protection, 264
 - copyright, 262
 - core, 10, 18, 22
 - creativity, exercises in stimulating, 283
 - CRT monitor, 144
 - color space of, 136, 138
 - C-stand, 295
 - in portraits growth path, 297
 - cube
 - lighting examples, 16–17, 28
 - lighting for shape, 14
 - Cumulus, 267
 - currency, lighting, 36
 - Curves
 - adjusting for neutral black, 219
 - adjusting for neutral white, 219
 - explained, 200
 - locking, 201
 - setting, 194, 200
 - Customize Proof Condition dialog box, in Photoshop, 221
 - cyanine dye, 255
 - cylinder
 - lighting examples, 24–25, 28
 - lighting for shape, 22
- D**
- D100, 288
 - data
 - longevity of, 273

- obsolescence of, 273
- recovery services, 257
- daylight, 46, 49
- DC-to-AC power inverter
 - in action growth path, 299
 - in landscapes growth path, 298
- depth of field, 109, 115, 128
 - examples, 110
 - for composition, 98
- desktop colors, effects on color perception, 145
- Dfine, 54, 240
 - in gear bag, 287, 296
- diagonal lines, for composition, 84
- digital asset management
 - See* asset management
- digital *versus* film
 - advantages, 276
 - disadvantages, 278
- digital zoom, 81
- dim surround, 208
- disk care tips, 255
- disk recovery, 257
- DNG format, 122, 273
- DNG specification, 123
- docking station, 214
- DP, Lowel, 26, 290, 291
- DTP41 spectrophotometer, 296
- DVD, 254, 256, 257
 - in portraits growth path, 297
 - portable burner, 257
 - tips on caring for, 255
- dye layers, on CDs and DVDs, 255
- dye sublimation printer, 164
- dynamic range, 194

E

- editorial, growth path for shooting, 299
- egg crate grid, 26, 27, 293
 - in portraits growth path, 297
- elephant seals, 25
- Entrada Fine Art paper, 296
- erasing objects, 231
- ethics of image-editing, 227
- Exchangeable Image File Format

- See* EXIF
- EXIF, 262, 263
- exposure
 - adjusting when opening file, 186, 192, 196
 - Aperture Priority, 109, 128
 - Automatic, 108
 - importance of avoiding overexposure, 274
 - importance of avoiding underexposure, 275
 - Manual, 128
 - Manual mode *versus* Override, 115
 - Override, 119
 - setting, 107
 - Shutter Priority, 112, 128
- eyedropper tool
 - for setting white balance, 183
 - to select color samples, 218, 248
- eyes, for composition, 86

F

- factory daylight, 42, 43
- file formats
 - choosing the best for the Web, 210
 - DNG, 122, 273
 - GIF, 210
 - JPEG, 121, 180, 210, 257
 - and digital noise, 240
 - PNG, 210
 - RAW, 121, 180, 240, 257, 273
 - See also* OpenRAW
 - TIFF, 121, 180, 240
- file names, for asset management, 258
- fill card, 286, 293
- film scanner, 155
 - in gear bag, 296
- film *versus* digital
 - advantages, 278
 - disadvantages, 276
- filter
 - case, 286, 288
 - circular polarizer, 51, 286, 288
 - in action growth path, 299
 - in landscapes growth path, 298

- clear (UV haze), 50, 286
- graduated neutral density, 53, 288
 - in landscapes growth path, 298
- hot mirror, 124
- infrared, 51, 95, 124, 288
 - in landscapes growth path, 298
- Low Contrast, 288
- neutral density, 52, 288
 - in action growth path, 299
 - in landscapes growth path, 298
- physical, 50
- Pro-Mist, 288
- soft focus, 52, 286
- software, 54
- thread adapter, 286
- Ultra Contrast, 288
- Fine Art Series paper, 296
 - G-Chrome Gloss, 296
 - Photo Matte, 296
- Fireworks, 221
- flash flare, preventing, 12
- flash unit
 - See* strobe unit
- flatbed scanner, 154, 163
 - in gear bag, 296
- Flexi-fill card, 293
- focal length, for asset management, 262
- focal-length multiplier effect of CCDs, 280
- focus
 - adding selective (limited), 244
 - for composition, 90
 - See also* soft focus filter
- foreground, for composition, 98
- form, for composition, 64
- frame
 - controlling the edges of, 78
 - filling the, 80
- frame within a frame, for composition, 94

G

- gamma
 - of Mac monitor, 149, 206
 - of PC monitor, 149, 206
- gamma correction, 206
- gamut, 136

- See also* color space
- GamutWorks, 296
- G-Chrome Gloss paper, 296
- G-Chrome ink, 269, 276
 - in gear bag, 296
- gear
 - constant need to upgrade, 282
- gear bag
 - Commercial AW, 289
 - in action growth path, 299
 - in landscapes growth path, 298
 - Omni Traveller, 287
 - Pro Roller 3 lighting container, 289
 - Rhino lighting container, 289
 - Road Runner AW, 289
 - Traveller Extreme hard case (waterproof), 287
- GIF format, 210
- glare, effects on color perception, 145
- global positioning system
 - See* GPS
- gobo lighting kit, 293
- gold dye layer, 255
- golden section, 72–77
- GPS, for asset management, 262, 267
- gradient fills, color banding in, 242
- graduated neutral density filter, 53, 288
 - in landscapes growth path, 298
- grain, digital, 120
- Grayscale mode, 246
- greens
 - adjusting using Curves, 200
 - adjusting when opening file, 184
 - adjusting without using Curves, 202
- grid spot, 289, 293
- grip tape, 295
- grip trailer, 289
- growth path
 - action, 299
 - editorial, 299
 - landscapes, 298
 - nature, 298
 - people, 297
 - portraits, 297



H

- hair light, 290
- hard drives
 - in action growth path, 299
 - in landscapes growth path, 298
 - in portraits growth path, 297
 - recovering from failure, 257
- head shot, 30
- Healing Brush tool, 230, 231
- high-contrast lighting, 90, 117
- highlights, 10, 22, 30
 - adjusting when opening file, 186
 - avoiding overexposure, 274
 - preview when opening file, 187
- high-roller stand, 295
- histogram, 180, 186, 198
 - in-camera, 127, 274
- History palette, 226
- History States, 226
- hood, monitor, 145
- horizon, placement of, 75
- hot mirror filter, 124

I

- ICC, 139
- ICC Profile, 139
 - creating for monitor, 148
 - creating for printer, 167–171
 - via service bureau, 172
 - creating for scanner, 157–160
 - graphing tool, 296
 - sources of an, 140
- image cataloging tools, 258
- image numbers, 258
- image size, changing, 238
- iMatch, 267
- incandescent light, 46, 48
- incidence, angle of, 12
- incident highlights, 18
- infrared filter, 288
 - in landscapes growth path, 298
- infrared shot, 51, 95, 124
- ink, types of, 166

ink-jet printer

- bulk ink delivery system, 166, 214, 277
- color space of, 136
- controlling color with RIP, 223
- defined, 164
- for personal printing, 214
- PIXMA iP6000, 287
- profiling, 167–171
 - via service bureau, 172
- StylusPHOTO 2200, 296
- Intent
 - in Photoshop Elements, 216, 217
- International Color Consortium
 - See ICC
- International Press Telecommunications Council
 - See IPTC
- IPTC, 262
- ISO equivalency, 120
 - for asset management, 262

J

- jaggies, 238
- jewelry, lighting, 34
- JPEG format, 121, 180, 210, 257
 - and digital noise, 240

K

- Kayenta Photo Matte paper, 296
- keyboard shortcuts, 226
- keystoning
 - defined, 234
 - repairing, 234–237
- keywords, for asset management, 260
- Kokopelli Photo Gloss paper, 296



L

Ladies' Basketball Hall of Fame, 20, 24
 landscapes, growth path for shooting, 298
 laptop computer
 in action growth path, 299
 in landscapes growth path, 298
 laser printer, 164, 214
 laser printer toner, 166
 Lasso tool, 227, 244, 248
 law of reflection, 12
 layers, 227
 LCD monitor, 144
 Lens Blur dialog box, 244
 lenses
 in gear bag, 288
 Levels, setting, 194, 196
 light
 artificial, 40
 cool *versus* warm, 6
 creating color using, 39
 creating shape using, 8
 diffusing with a scrim, 37
 diffusing with a softbox, 26
 flat *versus* directional, 5, 16, 30
 hard *versus* soft, 4
 landscape shots, 43
 natural, 40
 light meter
 in gear bag, 293
 See also metering mode
 light stand, 295
 in portraits growth path, 297
 line, for composition, 62
 L-Light, 290, 291
 longevity of data, 273
 Low Contrast filter, 288
 low-contrast lighting, 89
 luminance levels, 194
 luminance noise, 240

M

Mac monitor gamma, 149
 magentas

 adjusting when opening file, 184
 adjusting with selection mask, 232
 Magic Wand tool, 227
 Magnetic Lasso tool, 227
 makeup, creating shape with, 31
 making an image larger, 238
 Manual Exposure mode, 128
 manual focus, for composition, 91
 Marquee tool, 227
 Mask Pro
 in gear bag, 296
 matrix metering, 106, 128
 Maxi Bank softbox, 286
 MB-D100, 288
 memory card
 CompactFlash, 214, 254, 286, 288
 in action growth path, 299
 in landscapes growth path, 298
 Memory Stick, 214
 Mini-SD, 214
 MultiMediaCard (MMC), 214
 quality *versus* price, 254
 Secure Digital (SD), 214
 Smart Media, 214
 speed of, 256
 xD-Picturecard, 214
 memory card reader, 214, 287, 296
 Memory Stick memory card, 214
 metadata, 139
 for asset management, 262
 metamerism, 39
 metering mode, 106
 averaging, 106, 128
 center-weighted, 106, 128
 for asset management, 262
 matrix, 106, 128
 spot, 106, 128
 midtones, 10, 196
 adjusting when opening file, 190, 192
 adjusting with Levels, 197
 Mini Bank softbox, 286, 292
 Mini-SD memory card, 214
 Moab paper, 269, 276
 Entrada Fine Art, 296
 Kayenta Photo Matte, 296
 Kokopellie Photo Gloss, 296
 mobile phone
 in action growth path, 299



Model release forms, 295
 MonacoEZcolor, 157, 167
 MonacoOptix, 146
 in gear bag, 287
 monitor
 types of, 144
 white point of, 149
 monitor calibration, 143
 monitor hood, 145
 monitor profiling, 143
 monopod
 in action growth path, 299
 Month view, in Photoshop Elements
 calendar, 263
 Morro Rock, 21
 motion blur, 112, 115, 126
 MultiMediaCard (MMC) memory card, 214

N

natural light source, 40
 nature, growth path for shooting, 298
 Nero Burning ROM, 287, 296
 neutral black, 218, 219
 neutral density filter, 52, 288
 in action growth path, 299
 in landscapes growth path, 298
 neutral gray, 182, 183
 neutral white, 218, 219
 news organizations, asset management
 practices of, 262
 Niagra II Continuous Ink Flow System, 166,
 277, 297
 in gear bag, 296
 noise
 adding to create blur, 245
 adding to reduce color banding, 242
 chrominance, 240
 digital, 120
 defined, 240
 from underexposure, 275
 luminance, 240
 reducing, 120, 240
 noise reduction filter, 240, 275

O

obsolescence of data, 273
 Octaplus softbox, 292
 Omni Traveller gear bag, 287
 online printing services, 213, 222
 OpenRAW, 273
 optical disk, 254
 optical zoom, 81, 286
 OptixXR colorimeter, 287, 296
 orientation of camera, for asset
 management, 262
 out of gamut, 137
 overexposure
 causing loss of data, 275
 using histogram to avoid, 274

P

Pantone, 223
 paper, types of, 165
 pattern, for composition, 66
 PC monitor gamma, 149
 people, growth path for shooting, 297
 Perceptual Intent
 in Photoshop, 220
 in Photoshop Elements, 216
 personal printing, 213, 214
 from Photoshop, 218
 from Photoshop Elements, 216
 perspective, for composition, 96
 Pfeiffer Beach, California, 124
 Photo Matte paper, 296
 Photo Mechanic, 267
 Photo Organizer, in Photoshop
 Elements, 267
 PhotoFrame
 in gear bag, 296
 photoreactive dye layer, 255
 Photoshop
 action for upsizing an image, 276
 action for watermarking, 264
 Bridge, 267
 in gear bag, 287, 296
 keyboard shortcuts, 226



- selection tools, 227
 - tips, 226
 - Photoshop Elements
 - in gear bag, 287
 - keyboard shortcuts, 226
 - Photo Organizer, 267
 - selection tools, 227
 - tips, 226
 - Picassa, 267
 - PICTBRIDGE, 214, 215
 - Piedras Blancas Elephant Seal Rookery, 25
 - pixelation, 238, 239
 - pixels, defined, 134
 - PIXMA iP6000 ink-jet printer, in gear bag, 287
 - PNG format, 210
 - point of view, for composition, 92
 - polarizer filter, circular
 - See circular polarizer filter
 - Polygonal Lasso tool, 227
 - Portfolio, 267
 - in gear bag, 287, 296
 - portrait, 30
 - portraits, growth path for shooting, 297
 - power points, 76
 - POWERBank Li-ion battery pack, 286
 - primary colors, 133
 - additive, 133
 - subtractive, 133, 184
 - Print Preview dialog box
 - in Photoshop, 221
 - in Photoshop Elements, 217
 - Print Space
 - in Photoshop Elements, 216, 217
 - printer
 - profile
 - using in Photoshop, 220
 - using in Photoshop Elements, 216
 - See also profiling a printer
 - types of, 164
 - printing
 - controlling color with RIP, 223
 - directly from camera, 214
 - directly from memory card, 215
 - from Photoshop, 218
 - from Photoshop Elements, 216
 - offset, 223
 - online services, 213, 222
 - personal, 213, 214
 - retail, 213, 222
 - prints, archival-quality, 276
 - Pro Panel ("gobo") lighting kit, 293
 - Pro Roller 3 lighting bag, 289
 - Profiler
 - in gear bag, 296
 - profiling
 - a monitor, 143
 - frequency of, 149
 - a printer, 167–171
 - frequency of, 171
 - via service bureau, 172
 - a projector, 150
 - a scanner, 157–160
 - frequency of, 160
 - program windows, effects on color perception, 145
 - projector, 144
 - calibrating, 150
 - profiling, 150
 - Pro-Light, 290, 291
 - Pro-Mist filter, 288
 - Proof Colors, 220
 - proofing, in Photoshop
 - See soft proof
- ## Q
- quality of images, digital *versus* film, 271
 - Quark, 221
 - Quartz Plus softbox, 292
 - quick-release speed ring, 293
- ## R
- radio slave
 - See slave
 - radius, unsharp masking, 204
 - raster image processing
 - See RIP
 - RAW format, 121, 180, 240, 257, 273
 - See also OpenRAW

- RAW formats, list of, 122
 - rear curtain synch, 126
 - Red Eye Removal tool, 228, 232
 - red eye, defined, 228
 - reds
 - adjusting using Curves, 200
 - adjusting without using Curves, 202
 - reflectance, angle of, 12
 - reflection, law of, 12
 - reflective dye layer, 255
 - reflective scanner, 154
 - reflective surface, lighting, 32, 34, 36
 - Relative Colorimetric Intent
 - in Photoshop, 220
 - in Photoshop Elements, 216
 - remote shutter control
 - in landscapes growth path, 298
 - Rendering Intent
 - in Photoshop, 220
 - resampling tools, 239
 - resizing an image, 238
 - resolution, digital *versus* film, 271
 - retail printing, 213, 222
 - RGB channels, 196
 - RGB color
 - converting to CMYK with RIP, 223
 - defined, 133
 - RGB Color mode, working in, 196
 - RGB data
 - range of values, 134
 - viewing with histogram, 127, 186
 - Rhino lighting bag, 289
 - Rifa-Lite, 290, 291
 - RIP, 223, 296
 - Road Runner AW gear bag, 289
 - rule of thirds, 74, 102
- S**
- saturation
 - adjusting when opening file, 192
 - Saturation Intent
 - in Photoshop, 220
 - in Photoshop Elements, 216
 - ScanMaker 8700 scanner, 296
 - scanner
 - ANSI targets, 156, 296
 - flatbed, 154
 - in gear bag, 296
 - opaque target, 154
 - profiling
 - See profiling a scanner
 - ScanMaker 8700, 296
 - transparency (film or slide), 155, 296
 - transparent target, 155
 - types of, 154
 - uses for, 153
 - scrim, 36, 293
 - building your own, 38
 - stand for, 295
 - Secure Digital (SD) memory card, 214
 - selection mask, 232, 244
 - selection tools, 226, 244
 - Selective Color dialog box, 232
 - self-timer, camera
 - in landscapes growth path, 298
 - shadows, 10, 22, 30
 - adjusting when opening file, 188, 192, 196
 - preview when opening file, 189
 - shape
 - creating with light, 8
 - for composition, 64
 - sharpener Pro, 54
 - sharpening an image, 204
 - shiny metal, lighting, 33, 34, 36
 - shortcuts, keyboard, 226
 - shot within a shot, for composition, 82
 - Shutter Priority exposure mode, 112, 128
 - shutter speed, 107
 - for asset management, 262
 - silver dye layer, 255
 - Simulate Paper Color, 220
 - Skew, 235, 236
 - skin tones, as color temperature gauge, 182
 - sky, replacing, 248
 - slave, remote lighting, 289, 290, 293
 - in action growth path, 299
 - in portraits growth path, 297
 - slide scanner, 155
 - in gear bag, 296
 - Smart Media memory card, 214
 - SMPTE, 208
 - SMTPE color bars, 208



Society of Motion Picture and Television Engineers
 See SMPTE

soft focus filter, 52, 286

soft proof, in Photoshop, 220

softbox, 26

- barn doors, 26, 27, 293
- Chimera Lighting brand, 26, 286, 292
- egg crate grid, 26, 27, 293
 - in portraits growth path, 297
- for handheld strobes, 286, 292
- in portraits growth path, 297
- low heat *versus* high heat, 26, 292
- Maxi Bank, 286
- Mini Bank, 286, 292
- Octaplus, 292
- Quartz Plus, 292
- quick-release speed ring, 293
- stands for, 295
- Super Pro Plus, 292
- Video Pro Plus, 292

softbox lightbank
 See softbox

soft-focus filter
 in portraits growth path, 297

software filters, 54

spectrophotometer, DTP41, 296

speed ring, quick-release, 293

sphere
 lighting examples, 20–21, 28, 30
 lighting for shape, 18

spot focus, for composition, 91

Spot Healing Brush tool, 230

spot metering, 106, 128

sRGB
 as default color space, 180
 defined, 138

step method to upsize images, 238

step-up rings, 288

stop action, 113

stop-down, 110

storage devices, obsolescence of, 273

strobe unit, 289

- 2000D, 290
- 285HV, 286, 290
- 800, 290
- B400, 290
- B800, 290

- in action growth path, 299

StylusPHOTO 2200 ink-jet printer, 296

subtractive colors, 133, 184

super clamp, 287, 295

Super Pro Plus softbox, 292

T

tabletop tripod, 286, 287, 288, 294
 in action growth path, 299

tags, keyword, in Photoshop Elements, 260

telephoto effect of CCDs on lenses, 280

telephoto lenses
 in action growth path, 299
 in landscapes growth path, 298
 in portraits growth path, 297

texture, for composition, 68, 102

thirds, rule of, 74, 102

thread adapter, for filters, 286

threshold, unsharp masking, 204

TIFF format, 121, 180, 240

time line, in Photoshop Elements, 263

tint
 adjusting when opening file, 184, 192

tonal range, 119
 expanding and compressing, 119

toner, types of, 166

tools, mastering, 272

top-back lighting, 36

Tota Light, 26, 290
 in portraits growth path, 297

trailer, grip, 289

Transform Selection, 227

transparency scanner, 155

Traveller Extreme hard case, 287

triplet, color values, 135, 198

tripod, 287, 294
 in landscapes growth path, 298

tungsten light, 26
 softbox for, 292

TV, for viewing images, 208



U

- Ultra Contrast filter, 288
- underexposure
 - causing digital noise, 275
 - using histogram to avoid, 275
- unsharp masking, 194, 204, 210
 - during image upsizing, 238
- upsizing an image, 238
- UV haze filter, 50, 286

V

- vertical orientation, for composition, 100
- vest
 - in action growth path, 299
- Video Pro Plus softbox, 292
- Vise-Grips, 295
- vision, exercises in expanding, 283
- visual push-ups, 60, 283
 - color, 70
 - form, 64
 - line, 62
 - pattern, 66
 - shape, 64
 - texture, 68
- Volta, Alessandro, 270
- voltaic pile, 270

W

- watermark, 264
- white balance, 44
 - adjusting when opening file, 182, 192
 - automatic, 44
 - examples, 46–49
 - fluorescent, 49
 - indoor, 44
 - manual, 44
 - outdoor, 44
 - overcast, 44
 - setting with eyedropper tool, 183
- white balance calibration card, 45, 286, 289

- white point, 194, 196, 197, 199
 - of monitor, 149
- whites
 - adjusting when opening file, 186, 192
 - adjusting with Levels, 197
 - avoiding overexposure, 274
 - getting good neutral, in Photoshop, 218
- wide-angle lenses
 - in action growth path, 299
 - in landscapes growth path, 298
 - in portraits growth path, 297
 - increased need for, 280
- windows (program), effects on color
 - perception, 145
- workflow, 251, 278, 279

X

- xD-Picturecard memory card, 214

Y

- Year view, in Photoshop Elements
 - calendar, 263
- yellows
 - adjusting when opening file, 182
 - adjusting with selection mask, 232

Z

- zoom
 - optical *versus* digital, 81

