

index

A

8-, 16-, 32-bit files, 276
16 Bits/Channel option, 78
55mm plug-in, 307, 360–361, 362
Adams, Ansel
 on art versus science, 13
 books, 12, 14, 17, 18, 22
 craftsmanship, 14–15
 darkroom work
 image toning, 303
 versus Layers, 103–105, 115
 overview, 16–17
 print notes, 191
 tonal range, 250, 252
 work prints, 336
 on expressive images, 17–18
 interpretations, 19–22
 legacy, 12–13
 overview, 4, 5, 172, 238
 photo variations, 18, 19
 photographs
 Clearing Winter Storm, 103–104
 Leaves, 19–21
 Winter Sunrise, 21–22
 Photoshop workflow and, 8–9
 tools used, 15–16
 on visualization, 35, 39
 Zone System, 14, 360
adjustment layers. *See* color adjustments; midtone adjustments; layers
adjustments, overall. *See* Photoshop basics
Adobe Bridge browser, 96
Adobe RGB color space, 70, 366
algorithms, 78, 366
artifacts, 225, 226–227, 366
ASF (Applied Science Fiction) plug-ins, 361–364
AWB (automatic white balance), 39

B

backing up images, 43
banding, 29, 60, 78
bit depth, 78, 93, 366
black-and-white photos
 converting from color
 in Camera Raw, 295–298
 using Channel Mixer layer, 292–295

 using Channels palette, 287–292
 using Desaturate command, 285, 286–287, 299
 using Grayscale mode, 285, 286–287
 Levels histogram and, 290, 292
 multiple same-image conversions, 299–302
 overview, 285–286, 300, 307
 using plug-ins, 307, 358
 RAW files, 295
 versus shooting directly, 283–285
on film, 280, 281, 292
filters for, 282–283, 358
overview, 278–280
tips for, 282
toning
 using Color Balance, 305–306
 using Hue/Saturation, 304–305
 overview, 303
blacks and whites, setting
 and adjusting in layers, 107–108
auto controls and, 55
defined, 54–55
layer masks and, 112–113
using Levels tool, 55–60
prints and, 55
workflow example, 207–211
blurring
 around sharp areas, 200–202
 distracting areas, 330–332
 with Gaussian Blur, 120, 330–331
 noise and, 333
 shooting intentional blur, 332
 tools for, 331
borders for prints, 347–351
bracketing exposures, 30, 33
Brightness/Contrast tool. *See also* contrast adjustment layers
 controlling viewer focus, 134, 178–181
 overview, 115, 118, 119
 when to use, 182–183
 defined, 112, 182
Brightness slider in Camera Raw, 80, 82–83
brilliance, image, 34, 323
Brush tool
 changing brushes, 133
 defined, 366
 healing brushes, 235–237
 options, 113–114

Burn tool, 173–177, 366
burning, edge, 134, 178–181, 193–194

C

Calibrate tab in Camera Raw, 86–87, 89, 90, 296–297
calibrating monitors, 153

Camera Raw

Auto settings, 79, 82, 93
color adjustments
 hue, 86–87, 89
 saturation, 86, 88–89
 temperature, 86, 87, 88
 tint, 86, 87, 88
 white balance, 85–86, 87, 94
converting color to B&W in, 295–298
extending tonal range, 263–270
histograms, 96
lens aberration adjustments, 92
midtone adjustments
 brightness, 80, 82–83
 contrast, 80, 84
 using Curve tab, 80, 82, 83
 exposure, 80, 81
 overview, 80, 81
 shadows, 80, 81–82
noise adjustments
 color noise, 90
 luminance smoothing, 90
 overview, 89
 sharpness, 89–90, 94, 95

Preferences, 94–95

Preview check box, 84

pros and cons, 74

RAW files

adjusting, overview, 76
converting color to B&W, 295
cropping, 77
defined, 369
exposure and, 26, 27, 29, 32
versus JPEG files, 75–76
multiple, adjusting at once, 96
rotating, 77
saving adjustments, 93
saving originals, 42, 295

resetting defaults, 85

setting new defaults, 93–95

Settings drop-down menu, 94–95

Shadows/Highlights warnings, 84

tabs

Adjust, 80, 86
Calibrate, 86–87, 89, 90, 296–297
Curve, 80, 82, 83
Detail, 89–92
Lens, 92

Workflow Options

Depth, 78, 93
overview, 77
Resolution, 79, 93
Size, 78, 93
Space, 77, 93

workflow steps

adjusting color, 87–89
adjusting midtones, 81–84
fixing lens aberrations, 92
reducing noise, 89–92
saving work, 93

cameras. *See* digital cameras

Channel Mixer adjustment layer, 292–295

channel options, 78

channels, defined, 366

Channels palette, 287–292

Chromatic Aberration control, 245

Clearing Winter Storm photograph (Adams), 103–104

cloning out debris. *See also* image problems

 using areas of other photos, 274

 artifacts and, 225, 226–227

 using Clone Stamp, 225–226, 366

 defined, 225

 example, 224, 228–234

 saving changes, 232

 in selections, 232, 246

 in skies, 246

 on a straight line, 230

 workflow steps in, 226–227

color adjustments. *See also* midtone adjustments

 using adjustment layers. *See also* layers

 adding warmth, 156–159

 Color Balance layers, 156–159

 with Color Range tool, 157–158, 195–200

 colorcast correction, 154–156

 Curves layers, 163–164

 Hue/Saturation layers, 166–169

 with layer masks, 154–156, 162, 163, 168

 Levels layers, 109–110, 154–155

 moving layers to other photos, 170

 opacity, 109–110, 111

 quick corrections, 109–111

 warm/cold contrast, 159–160, 162–164

in Camera Raw

 hue, 86–87, 89

 saturation, 86–87, 88–89

 temperature, 86, 87, 88

 tint, 86, 87, 88

 white balance, 85–86, 87, 94

overall adjustments. *See also* Photoshop basics

 balance, 71

 color noise, 71

 color space, 70

 colorcast, 64–66



- hue, 67–70
 - versus local adjustments, 54, 172
 - opacity, 65–66
 - overview, 63–64
 - saturation, 66–67, 68–70, 164–166, 170
- overview, 152
- plug-ins, 170, 307, 358–364
- workflow example, 214–216, 222
- Color Balance adjustments, 71, 156–159, 305–306
- Color Efex plug-in, 170, 307, 358–359
- color, elements affecting, 152–153
- color fringing, 92, 245
- color hue. *See* hue
- color noise. *See* noise
- Color Picker, 348, 367
- Color Range tool
 - color adjustments, 195–200
 - defined, 195–196, 367
 - midtone adjustments, 135–138
 - warmth adjustments, 157–158
- Color Sampler tool, 51
- color saturation. *See* saturation; Hue/Saturation tool
- color space
 - Adobe RGB space, 70, 366
 - Camera Raw options, 77, 93
 - defined, 367
 - Photoshop options, 70
 - printing and, 355
 - sRGB space, 70, 370
- composition, visualization and, 35–36
- contrast. *See also* Brightness/Contrast tool
 - adjusting in Camera Raw, 80, 84
 - warm/cold contrast, 159–160, 162–164
- The Creative Photographer* (Feininger), 18
- Crop tool
 - in Camera Raw, 77
 - correcting perspective, 239–240
 - cropping to specific sizes, 48
 - freehand cropping, 46–48
 - pictured, 46
 - reasons to use, 46
 - straightening horizons, 49–51
- Curves tool, adjusting midtones
 - in adjustment layers, 108–109, 130–135, 137–138, 163–164
 - in Camera Raw, 80, 82, 83, 370
 - in dialog box, 60–63

D

- darkroom work. *See* photography, film; Adams, Ansel
- debris. *See* image problems
- Desaturate command, 285, 286–287, 299
- Detail tab in Camera Raw, 89–92

- digital cameras
 - A/D converter, 75
 - histograms, 30, 31–32
 - LCD screens
 - checking exposures, 26, 30–32
 - defined, 369
 - digital improv using, 36–38
- Digital Film Tools plug-ins, 360–361
- digital GEM, ROC, SHO plug-ins, 361–364
- DNG (Digital Negative) format, 93
- Dodge tool, 173–177, 367
- Duplicate Layer dialog box, 122
- dust spots. *See* image problems

E

- 8-bit files, 78, 276
- Elliptical Marquee tool, 117, 367
- e-mail, sizing images for, 317–319
- Examples, the Making of 40 Photographs* (Adams), 12, 22
- exposure
 - adjusting in Camera Raw, 80, 81
 - banding problems, 29
 - bracketing exposures, 30, 33
 - checking, 26, 30–32
 - defined, 367
 - on film, 33
 - JPEG format and, 29
 - noise problems, 28–29
 - overexposure issues, 29–30, 33
 - overexposure warnings, 30–32
 - RAW files and, 25–26, 27, 29, 32
 - underexposure, 27–29, 33
- eyedropper tools, 51, 60, 64–65, 367

F

- Fade tool, 65–66, 213
- feathering selections, 246, 367
- Feininger, Andreas, 4, 18
- 55mm plug-in, 307, 360–361, 362
- Fill dialog box, 112–113
- film photography. *See* photography, film
- filters
 - in 55mm plug-in, 360–361, 362
 - for black-and-white photos, 282–283, 358
 - in Color Efex plug-in, 358–359
 - defined, 368
 - in digital GEM plug-in, 361–362, 363
 - Gaussian Blur, 120, 330–331
 - Lens Correction, 122, 123–125, 242, 244–245
 - Smart Sharpen, 319–320, 324–327
 - Unsharp Mask (USM), 319–324, 370
- Fujichrome Velvia film, 66, 70



G

Gaussian Blur filter, 120, 330–331

Gradient tool

defined, 368

making layer masks, 132–133, 146

overview, 184

graphics tablet, 203, 368

Grayscale mode, 285, 286–287, 368

H

HDR Conversion dialog box, 273

healing tools, 235–237, 246

High Dynamic Range tool, 270–275, 276

highlights. *See* Shadow/Highlight tool

histograms

in Camera Raw, 96

defined, 368

in digital cameras, 30, 31–32

in Levels, 55, 58, 292

History palette, 176, 368

horizon straightening. *See also* image problems

with Crop tool, 49–51

with Lens Correction filter, 122, 123–125, 242, 244–245

overview, 49, 242

with Rotate Canvas command, 51–53

hue. *See also* color

adjusting in Camera Raw, 86–87, 89

defined, 66, 368

Hue/Saturation tool. *See also* saturation

color noise and, 71

layer adjustments, 166–169, 196, 198–200

opening, 66

overall adjustments, 66–70

toning B&W images, 304–305

I

image brilliance, 34, 323

image problems. *See also* noise

using automatic white balance, 39

banding, 29, 60, 78

color fringing, 92, 245

correcting perspective

using Crop tool, 239–240

using Lens Correction filter, 240–243

overview, 238–239

using Perspective Transform tool, 239–240

debris removal with cloning

using areas of other photos, 274

artifacts and, 225, 226–227

using Clone Stamp tool, 225–226, 366

defined, 225

example, 224, 228–234

saving changes, 232

in selections, 232, 246

in skies, 246

on a straight line, 230

workflow steps in, 226–227

debris removal with healing tools, 234–237, 246

fixing lens aberrations, 92, 245

fixing red eye, 235

minimizing dust spots, 246

overview, 224

ringing, 370

straightening horizons

with Crop tool, 49–51

with Lens Correction filter, 122, 123–125, 242,

244–245

overview, 49, 242

with Rotate Canvas command, 51–53

tonal tearing, 60

vignetting, 92, 245, 370

interpolation, 315, 315–319, 368

J

JPEG files

defined, 368

printing, 313

versus RAW files, 75–76

saving images as, 44, 93

shooting right, 29

K

keyboard shortcuts

copying Background layers, 174

copying layer masks onto each other, 145

duplicating layers, 122

enlarging images to fill work areas, 48

filling layer masks with color, 135

flattening/reordering layers, 141

inverting layers, 145

opening

Curves, 61

Hue/Saturation, 66

Levels, 55

Print, 338

Stamp Visible trick, 141, 174

toggleing between whole images and details, 91

Kodak ASF plug-ins, 361–364

L

Lasso tools, 117–118, 368

layer modes

defined, 188, 368

Luminosity, 139–140

Multiply, 145–146, 149

Screen, 147–149

versus Shadow/Highlight tool, 150

layer styles, 348–350, 368



- layers
 - active layers, 125
 - versus Adams' darkroom work, 103–105, 115
 - adjustment layers. *See also* color adjustments; midtone adjustments
 - adding, 106–107
 - adjusting blacks/whites, 107–108
 - adjusting brightness/contrast, 112, 115, 118, 119
 - adjusting midtones, 108, 109
 - changing opacity, 115, 116, 125
 - Channel Mixer layer, 292–295
 - comparing, 115–117
 - correcting color, 109–111
 - defined, 105–106, 366
 - duplicating, 127
 - naming, 108–109
 - opening, 105, 106
 - order of, 127
 - overview, 150, 183–184, 191–192, 203
 - resetting, 106
 - Channels palette, 287
 - defined, 100–102, 368
 - deleting, 125
 - duplicating
 - adjustment layers, 127
 - versus Save As, 122
 - methods for, 122
 - overview, 121–122
 - reasons for, 122, 124
 - working on duplicates, 123–124
 - flattening, 126, 141
 - layer masks
 - adding to pixel layers, 202
 - in adjusting color, 154–156, 162, 163, 168
 - in adjusting midtones, 132–134, 139, 142, 145–147
 - black and white in, 112–113
 - using with Color Range, 195–200
 - copying, 127
 - defined, 111, 368
 - making with Gradient, 132–133, 146
 - moving, 127
 - painting on, 203
 - using with selections, 118–121, 193–194, 203
 - tweaking tonal effects, 196
 - using, 112–117
 - moving, 124, 125–126
 - naming, 214, 270
 - overview, 100
 - previewing changes, 108
 - saving, 122, 126
 - versus selections, 100, 111
 - sharpening images with, 327–330
 - turning on/off, 108, 111
 - Layers palette
 - Add a Layer Style button, 348
 - Create New Layer icon, 122, 123
 - defined, 101–102
 - drop-down menus, 126, 139–140
 - grouping layers in, 161
 - moving, 122
 - resizing, 122
 - setting options, 106
 - Trashcan icon, 125
 - Leaves photograph (Adams), 19–21
 - Le Gray, Gustave, 257
 - lens aberrations, 92, 368
 - Lens Correction filter
 - correcting perspective, 240–243
 - straightening horizons, 122, 123–125, 242, 244–245
 - Lens tab in Camera Raw, 92
 - Levels tool
 - adjusting midtones, 59, 60
 - adjustment layers, 109–110, 154–155
 - correcting colorcast, 64–66
 - defined, 368–369
 - histograms, 55, 58, 290, 292
 - Preview check box, 58
 - resetting, 65
 - setting blacks/whites, 55–60
 - luminance noise, 90–91, 369
 - Luminosity layer mode, 139–140, 188
- M**
- Magic Wand tool, 117, 118, 369
 - Magnetic Lasso tool, 118, 369
 - Marquee tools, 117
 - Measure tool, 51
 - Merge to HDR dialog box, 271
 - midtone adjustments. *See also* color adjustments
 - using adjustment layers. *See also* layers
 - with Brightness/Contrast tool, 134, 178–183
 - changing layer modes, 139–140, 145–150
 - with Color Range tool, 135–138
 - controlling viewer focus, 134, 178–181, 184–190
 - Curves layers, 108, 109, 130–135, 137–138
 - edge burning, 134, 178–181, 193–194
 - intensifying sky tones, 144–146
 - with layer masks, 132–134, 139, 142, 145–147
 - opacity, 149, 150
 - opening up shadows, 147–149
 - with selections, 193–194
 - sharpening/blurring areas, 200–202
 - blending edges of, 189
 - in Camera Raw
 - brightness, 80, 82–83
 - contrast, 80, 84
 - using Curve tab, 80, 82, 83
 - exposure, 80, 81
 - overview, 80, 81
 - shadows, 80, 81–82
 - using Dodge and/or Burn, 173–177

- extending tonal range
 - using Camera Raw, 263–270
 - combining exposures, 254–258
 - using High Dynamic Range tool, 270–275, 276
 - in mismatched exposures, 258–263
 - overview, 250–252
 - taking multiple exposures, 252–254
 - tonal range, defined, 370
- midtones, defined, 130
- overall adjustments. *See also* Photoshop basics
 - using Curves tool, 60–63
 - using Levels tool, 59, 60
 - versus local adjustments, 54, 172
 - using Shadow/Highlight tool, 140–143, 147, 150
- overview, 150
- workflow example, 211–213
- monitor images versus prints, 336, 337
- monitors, calibrating, 153
- Multiply layer mode, 145–146, 149, 188

N

- nature photography. *See also* photography
 - dual nature of, 250–252
 - overview, 4–5, 258
 - Photoshop and
 - craft and, 14–15
 - expressive images and, 17–18
 - overview, 5–7, 42
 - photo variations and, 18–19
 - tool use, 15–16
 - workflow steps, 8–9
 - shooting it right
 - banding problems, 29
 - bracketing exposures, 30, 33
 - Camera Raw and, 25–26, 27, 29, 32
 - checking exposure, 26, 30–32
 - composition, 35–36
 - digital improv, 36–38
 - exposure challenges, 26–30, 33
 - JPEG format and, 29
 - noise problems, 28–29
 - overexposure, 29–30, 33
 - overview, 24–25
 - sharpness, 33–34
 - thinking ahead, 35
 - underexposure, 27–29, 33
 - visualization, 35–36, 39
 - white balance, 39
- New Group from Layers dialog box, 161
- New Layer dialog box, 105, 348
- noise. *See also* image problems
 - adjusting in Camera Raw
 - color noise, 90
 - luminance noise, 90

- overview, 89
 - sharpness, 89–90, 94, 95
- color noise, 71, 90–92, 367
- defined, 369
- luminance noise, 90–91, 369
- overview, 28–29
- removing/reducing
 - color noise, 90–92
 - methods for, 333
 - plug-ins for, 360, 361–362
- sharpening and, 324, 326–329, 333

O

- opacity adjustment
 - using Fade tool, 65–66
 - in layers
 - color, 109–110, 111
 - midtones, 149, 150
 - overview, 115, 116, 125
- overall adjustments. *See* Photoshop basics

P

- Page Setup dialog box, 338, 341
- Patch tool, 235, 246
- perspective correction. *See also* image problems
 - using Crop tool, 239–240
 - using Lens Correction filter, 240–243
 - overview, 238–239
 - using Perspective Transform tool, 239–240
- photo problems. *See* image problems
- photography. *See also* black-and-white photos; nature photography
 - art versus science of, 13–14
 - photography, film. *See also* Adams, Ansel
 - adding warmth, 156
 - black-and-white issues, 280, 281, 292
 - color issues, 172–173
 - darkroom work versus Photoshop
 - dodging/burning, 173–174
 - edge burning, 178
 - layers, 103–105, 115, 191
 - overview, 16–17, 22
 - versus digital, 71, 311
 - extending tonal range, 252, 254, 257, 276
 - Fujichrome Velvia film, 66, 70
 - shooting right, 33
- Photoshop
 - craft and, 14–15
 - expressive images and, 17–18
 - moving dialog boxes, 163
 - new Camera Raw features
 - adjusting multiple images at once, 96
 - Calibrate, 86–87
 - Tone Curve, 80



- new CS2 features
 - High Dynamic Range tool, 270–275
 - layer-flattening shortcut, 320
 - Lens Correction filter, 122, 123–125
 - moving/copying layer masks, 127
 - resizing algorithms, 78
 - Shadow/Highlight tool, 140–143
 - Smart Sharpen filter, 320, 370
- overview, 5–7
- photo variations and, 18–19
- plug-ins
 - 55mm, 307, 360–361, 362
 - defined, 358, 369
 - digital GEM, 361–362, 363
 - digital ROC, 362, 364
 - digital SHO, 362, 363
 - nik Color Efex, 170, 307, 358–359
 - nik dfine, 360
 - nik Sharpener, 359–360
- resetting tool defaults, 226
- right-click menus, 133
- tool use, 15–16, 234
- tools tip, 62
- workflow steps
 - adjusting color, 214–216, 222
 - adjusting midtones, 211–213
 - evaluating originals, 206–207
 - naming layers, 214
 - overview, 8–9, 206, 222
 - previewing adjustments, 216
 - refining details, 218–221
 - refining viewer focus, 216–218
 - setting blacks/whites, 54–60, 207–211
- Photoshop basics. *See also* layers
 - backing up images, 43
 - clipping images, 31
 - cropping images
 - freehand, 46–48
 - reasons for, 46
 - to specific sizes, 48
 - enlarging images to fill work areas, 48
 - overall adjustments. *See also* blacks and whites
 - blacks and whites, 54–60
 - fading adjustments, 65–66
 - versus local adjustments, 54, 172
 - overview, 54
 - workflow order and, 71
 - overall color adjustments. *See also* color adjustments
 - balance, 71
 - color noise, 71
 - color space, 70
 - colorcast, 64–66
 - hue, 67–70
 - opacity, 65–66
 - overview, 63–64
 - saturation, 66–67, 68–70, 164–166, 170
 - overall midtone adjustments. *See also* midtone adjustments
 - using Curves tool, 60–63
 - using Levels tool, 59, 60
 - using Shadow/Highlight tool, 140–143, 147, 150
 - overview, 42
 - rotating images, 44–45
 - saving images
 - as copies, 42
 - as JPEG files, 44
 - overview, 42–43
 - as PSD files, 44
 - RAW files, 42, 295
 - as TIFF files, 44
 - straightening horizons
 - with Crop tool, 49–51
 - with Lens Correction filter, 122, 123–125, 242, 244–245
 - overview, 49
 - with Rotate Canvas command, 51–53
 - Picture Package feature, 351–354, 369
 - pixel layers, 202
 - pixels per inch (ppi), 312–314, 369
 - plug-ins. *See* Photoshop, plug-ins
 - Polygonal Lasso tool, 117, 369
 - Porter, Eliot, 12, 206, 238
 - previewing
 - adjustments, 216
 - in Camera Raw, 84
 - layer changes, 108
 - in Levels tool, 58
 - Print dialog box, 338–343
 - printer drivers, 339
 - printing
 - color spaces and, 355
 - JPEG files, 313
 - overview, 336
 - resolutions, 344, 355
 - sharpening images before
 - blurring distractions, 330–332
 - fixing harshness, 333
 - image brilliance and, 323
 - with layers, 327–330
 - with nik Sharpener plug-in, 359–360
 - noise and, 324, 326–329, 333
 - oversharpening, 321–322
 - overview, 310, 319, 320
 - with Smart Sharpen filter, 319–320, 324–327
 - with Unsharp Mask filter, 319–324
 - sizing images before
 - based on native resolution, 312–315
 - for e-mailing, 317–319
 - enlarging file size, 315–317
 - in Image Size dialog box, 311–319
 - overview, 310–311
 - reducing file size, 317





prints

- black/white settings, 55
- making borders, 347–351
- multiple, on one sheet, 351–354
- versus photos on monitors, 336, 337
- work prints
 - adjusting for better, 346–347
 - centering, 339
 - defined, 337–338
 - how to evaluate, 346
 - Mac users and, 339–340
 - printing later, 343
 - printing with more control, 340–343
 - quick printing, 337–340
 - where to evaluate, 344–345

problems. *See* image problems

PSD files, 44, 93, 369

R

RAW files. *See* Camera Raw

Red Eye tool, 235

resampling images, 315, 315–319, 370

resolution

- Camera Raw options, 79, 93
- defined, 344, 370
- overview, 311, 312
- sizing images in native, 312–315

RGB color spaces, 70, 366, 370

Rotate Canvas command, 44–45, 51–53

rotating RAW files, 77

S

saturation. *See also* Hue/Saturation tool

- adjusting
 - beware of, 164–166
 - in Camera Raw, 86, 88–89
 - using Color Efex plug-in, 170
- defined, 66, 370
- overview, 200

saving images

- as copies, 42
- DNG files, 93
- importance of, 176
- as JPEG files, 44, 93
- overview, 42–43
- as PSD files, 44, 93
- RAW file adjustments, 93
- RAW file originals, 42, 295
- as TIFF files, 44, 93

saving layers, 122, 126

Screen layer mode, 147–149, 188

Select an Image File dialog box, 353–354

selection tools

- Color Range, 135–138, 157–158
- Lasso, 117–118
- using with layer masks, 118–121, 193–194
- Magic Wand, 117, 118, 369
- Marquee, 117
- overview, 117

selections

- adding/subtracting from, 118
- blending edges of, 246
- cloning debris in, 232, 246
- defined, 370
- versus layers, 100, 111

Sexton, John, 22, 336

Shadow/Highlight tool, 140–143, 147, 150

shadows

- adjusting in Camera Raw, 80, 81–82
- opening up midtones, 147–149

Shadows/Highlights warnings in Camera Raw, 84

sharpening images. *See also* printing

- blurring distractions, 330–332
- fixing harshness, 333
- image brilliance and, 323
- with layers, 327–330
- with nik Sharpener plug-in, 359–360
- noise and, 324, 326–329, 333
- oversharpening, 321–322
- overview, 310, 319, 320
- with Smart Sharpen filter, 319–320, 324–327
- with Unsharp Mask filter, 319–324

sharpness

- adjusting in Camera Raw, 89–90, 94, 95
- contrasting with blurred areas, 200–202
- shooting for, 33–34

shortcut keys. *See* keyboard shortcuts

16-bit files, 78, 276

sizing images. *See also* printing

- in Camera Raw, 78, 93
- for e-mail, 317–319
- enlarging size, 315–317
- film versus digital, 311
- with Image Size tool, 311–319
- in native resolution, 312–315
- overview, 310–311
- reducing size, 317
- resizing algorithms, 78

sizing Layers palette, 122

Smart Sharpen filter, 319–320, 324–327, 370

Smith, W. Eugene, 4, 6, 22, 172

Split Channels command, 290

Spot Healing Brush, 235–237

sRGB color space, 70, 370



T

temperature, adjusting color, 86, 87, 88
 32-bit files, 276
 TIFF format, 44, 93, 370
 tint. *See* color
 tonal tearing, 60
 Tone Curve in Camera Raw, 80, 82, 83, 370
 tones. *See* midtones
 toning. *See* black-and-white photos
 troubleshooting. *See* image problems

U

Unsharp Mask (USM) filter, 319–324, 370

V

vignetting, 92, 245, 370
 visualization, 35–36, 39

W

warm/cold contrast, 159–160, 162–164
 warmth, adding, 156–159
 Website addresses
 Digital Film Tools, 360
 Feininger photo books, 18
 Kodak ASF, 361
 nik Multimedia, 170, 358
 Weston, Edward, 12, 303
 white balance. *See also* Color Balance adjustments
 adjusting in Camera Raw, 85–86, 87, 94
 automatic white balance, 39
 defined, 370
 overview, 39

whites. *See* blacks and whites
Winter Sunrise photograph (Adams), 21–22

Workflow Options in Camera Raw

Depth, 78, 93
 overview, 77
 Resolution, 79, 93
 Size, 78, 93
 Space, 77, 93

workflow steps**in Camera Raw**

adjusting color, 87–89
 adjusting midtones, 81–84
 fixing lens aberrations, 92
 reducing noise, 89–92
 saving work, 93

examples

color adjustments, 214–216, 222
 midtone adjustments, 211–213
 setting blacks/whites, 207–211

in Photoshop

adjusting color, 214–216, 222
 adjusting midtones, 211–213
 for cloning out debris, 226–227
 evaluating originals, 206–207
 naming layers, 214
 order of, 71
 overview, 8–9, 206, 222
 previewing changes, 216
 refining details, 218–221
 refining viewer focus, 216–218
 setting blacks/whites, 54–60, 207–211

Z

Zone System, 14, 360



