

Index

Numerics

45-degree lighting, 235

A

ACD *See* Photo Manager, 321

action photography. *See* sports photography

Adams, Ansel, 285

additive color process, 258

adjusting

- image size for online use, 513
- layers, 344

Adobe Bridge, importing raw files, 332

Adobe Photoshop Album, 321

Adobe Photoshop CS. *See* Photoshop

Adobe Photoshop Lightroom, 323

ambient light, utilizing for night photography, 547-548

angle of shot, effect on composition, 226

animals. *See* wildlife photography

anti-shake, 55

anticipating the shot, 480-481

aperture

- depth of field
 - controlling, 296
 - landscape photography, 459
- exposure, controlling, 272
- f/stops, 272
- Law of Reciprocity, 274

aperture-priority mode (D-SLRs), 120, 280

Apple iPhoto, 321, 324

archiving photos, 304-305

artificial lighting

- flash photography, 241
 - back shadows, avoiding, 243
 - flash mode, selecting, 242-243
 - red eye effect, avoiding, 243
 - when to use, 241
- studio lighting, 250
 - accessories, 252-255
 - continuous, 251
 - flash, 252
 - selecting, 256

artistic effects, applying to images, 374

output dimensions, 203-205

aspect ratio, 202

asymmetrical composition, rule of thirds, 214, 218-220

attaching filters, 185-187

audio recording, 61

auto fix controls (Photoshop), 340

auto focus, 58

- on D-SLRs, 123
- focus lock, 291-294

automatic exposure systems, 276

- versus manual exposure systems, 277
- when not to use, 277-278

automatic flash mode, 242

automatic shooting modes

- on D-SLRs, 119
- on point-and-shoot cameras, 87-89, 92

available light

- indoor lighting, 239-240
- outdoor lighting, 236-238

B

B&W photography. *See* black-and-white photography

babies, photographing, 428-429

back shadows, avoiding, 243

background

- blurring, 433
- colors, 268
- landscape composition, 460
- patterns, focusing on, 288-291
- removing, 413
- selecting, 151
 - for black-and-white photography, 531
 - for candid photography, 421-422
 - for macro photography, 520
 - for still life photography, 499

backing up photos, 304-305

backlighting, 235

balanced composition, 220

barndoors, 254

baseball games, shooting, 489

basic Photoshop settings, adjusting, 340

basketball games, shooting, 489

batteries, 60, 158

- charging, 73
- Li-Ion, 160
- life of, extending, 161-163

- rechargeable, 158
- selecting, 147
- standard, 158
- battery grips, 160**
- battery packs**
 - external, 160
 - internal, 159
- Bayer array, 14**
- black-and-white photography**
 - composition, selecting background and subject, 531
 - filters, 192, 195
 - color filters, 537-539*
 - contrast, 532
 - exposure, adjusting, 530
 - grayscale, 530
 - ISO, adjusting, 531
 - lighting, 534
 - lines and shapes, 535
 - portraits, 410-412
 - spot color, adding with Photoshop, 542-543
 - texture, 535
- black and white shooting mode, 528**
- blurriness, sharpening, 296**
- blurring**
 - as special effect technique, 284
 - backgrounds in Photoshop, 433
 - motion blur, adding to images, 494
- BMP file format, 20**
- Bonica Snapper-XP underwater camera, 552**
- bottom-weighted metering, 277**
- bounce flash, 248-250**
- bracketing, 121-122, 281**
- brightness, adjusting, 360**
 - for still life photography, 512
 - with Photoshop, 541
- broad lighting, 395**
- brushes (Photoshop), 336**
- built-in flash**
 - D-SLRs, 116
 - point-and-shoot cameras, 85

- burst mode, 481**
- burst rate, 57**
- butterfly lighting, 399**

C

- calculating EV values, 275-276**
- calibrating monitors, 39-40**
- calibration kits, selecting, 152**
- camera bags, 142, 145**
- camera straps, 141**
- cameras**
 - audio/video recording, 61
 - auto focus system, 58
 - batteries, 60
 - selecting, 147*
 - burst rate, 57
 - cleaning kits, 140
 - D-SLRs, 49
 - aperture-priority mode, 120*
 - automatic shooting modes, 119*
 - batteries, charging, 108*
 - bracketing, 121-122*
 - built-in flash, 116*
 - cleaning, 129-131*
 - composition, 115*
 - continuous shooting mode, 125*
 - exposure, adjusting, 118*
 - features, 104, 107*
 - focusing, 123*
 - full-manual mode, 121*
 - histograms, displaying, 127*
 - holding, 113-114*
 - image information, viewing, 126*
 - ISO sensitivity, adjusting, 118*
 - lenses, changing, 109*
 - maintenance, 128*
 - memory card, inserting, 108*
 - menu options, configuring, 110*
 - photos, deleting, 128*
 - photos, transferring to PC, 128*
 - playback mode, 126*
 - remote-control mode, 126*
 - self-timer, 125*
 - shutter-priority mode, 120*
 - single shots, shooting, 125*
 - speedlights, using, 116*
 - status display, 117*
 - tripods, using, 114*
 - turning on and off, 108*
 - white balance, adjusting, 118*
- equipment, recommended
 - accessories, 155
- external flash units, selecting, 149
- flash sync, 59
- image sensor cleaners, 141
- image stabilization, 54
- LCD hoods, 141
- lens adapters, 137-138
- lens hoods, 139
- lenses, 54, 170
 - conversion lenses, 137-139*
 - digital-to-film conversion, 180-181*
 - filters, 138-139, 187-197*
 - focal length, 170-172*
 - selecting, 136, 174*
 - telephoto, 172, 177*
 - wide-angle, 173, 176*
 - zoom lenses, 54*
 - zoom, 178-179*
- light meters, selecting, 148-149
- macro mode, 56, 515-516
- manufacturers, 63-64
- media card readers, selecting, 148
- memory cards, selecting, 147
- menu system, 57
- panoramic, 52
- placement of, guidelines for portrait photography, 389
- point-and-shoot, 45-47
 - automatic shooting modes, 87-92*
 - batteries, charging, 73*
 - built-in flash, 85*
 - cleaning, 99-101*
 - continuous shooting mode, 93-95*
 - features, 69-70*
 - focusing, 92*
 - holding, 79, 82*
 - memory card, inserting, 74*
 - menu options, configuring, 74-76*
 - photos, deleting, 98*

- photos, reviewing, 96*
 - photos, transferring to PC, 99*
 - picture quality, 46*
 - self-timer, 95*
 - single shots, shooting, 92*
 - tripods, using, 83*
 - turning on and off, 73*
 - viewfinder, 78-79*
 - white balance, correcting, 86*
 - zooming in, 84*
 - prosumer, 47-48
 - picture quality, 48*
 - resolution, megapixels, 53
 - selecting, 61-63
 - sensitivity, 59
 - shooting modes, 58
 - shopping tips, 65-68
 - storage media, 60
 - tripods, selecting, 145
 - underwater cameras, 51
 - viewfinder, 56
 - water-resistant, 52
 - where to buy, 64-65
 - white balance settings, 59
 - candid photography**
 - background, selecting, 421-422
 - enhancing images in Photoshop
 - background, blurring, 433*
 - unwanted objects, removing, 434-435*
 - enhancing images in Photoshop, 432
 - food photography, 508-509
 - lighting, 420
 - people, photographing, 422
 - babies, 428-429*
 - children, 427*
 - couples, 424*
 - groups, 425-426*
 - pets, 430-430*
 - recommended equipment, 419-420
 - wedding photography, 436
 - cars, photographing at night, 548**
 - CCD (charge coupled device) image sensors, 14, 310**
 - center spot filters, 195**
 - center-weighted metering, 277**
 - Cerious ThumbsPlus, 321**
 - CF (CompactFlash) cards, 60, 166**
 - charging batteries, 73**
 - children, photographing, 427**
 - portraits, 406-408
 - cityscapes, shooting, 476**
 - cleaning**
 - D-SLRs, 129-131
 - point-and-shoot cameras, 99-101
 - cleaning kits, 140**
 - Clone Stamp tool (Photoshop), 368**
 - removing unwanted objects from photographs, 453
 - close-up photography. See macro photography**
 - clothing, guidelines for portrait photography, 385**
 - CMOS (complimentary metal oxide semiconductor) image sensors, 14**
 - CMYK color space, 564**
 - Cokin Creative Filter System, 184**
 - Cokin Manefix system, 187**
 - Color Balance control (Photoshop), 364**
 - color calibrating monitors, 39-40**
 - color channels (Photoshop), 351**
 - color depth, 311**
 - color spaces, 564**
 - RGB, converting to CMYK, 565
 - colored filters, 192-195**
 - colorimeters, 40**
 - colors**
 - adjusting
 - for still life photography, 512*
 - with Photoshop Levels control, 363*
 - background colors, 268
 - contrasting, 261
 - converting images to black and white, 529, 539-540
 - harmonizing, 261
 - lighting, 266
 - white balance, 267-268*
 - mood-enhancing, 263, 266
 - primary, 258-260
 - secondary, 259-260
 - tertiary, 260-260
- comparing**
 - film and digital photography, 10-11
 - Photoshop CS and Photoshop Elements, 327
- composition**
 - achieving balance, 220
 - angle of shot, 226
 - aspect ratio, effect on, 202
 - output dimensions, 203-205*
 - black-and-white photography, selecting subject and background, 531
 - cropping the subject, 224-226
 - design principles
 - emphasis on single subject, 206*
 - filling the frame, 211*
 - orientation, 208-209*
 - positioning of subject, 212-214*
 - telling a story, 205*
 - design principles, 205
 - framing the subject, 228-229
 - isolating the subject, 221, 224
 - landscape photography, 459-460
 - macro photography, 522
 - off-center, 446
 - portrait photography, guidelines, 390
 - proximity to subject, importance of, 444-446
 - rule of thirds, 214, 218-220
 - simplicity as goal, 230
 - sports photography, 483
 - rule of thirds, 485*
- compression, effect on image quality, 19**
- cones, 255**
- consumer photo management programs, selecting, 321-322**
- continuous lighting, 251**
- continuous shooting mode**
 - D-SLRs, 125
 - point-and-shoot cameras, 93-95

contrast, 360

- black-and-white photography, 532
 - adjusting in Photoshop, 541
 - color filters, 537-539

contrasting colors, 261**controlling**

- depth of field, 285, 294-296
- exposure
 - with aperture, 272
 - with ISO speed, 274
 - with shutter speed, 272-274

converging lines, composing in landscape photographs, 462**conversion lenses, 137-179****converting**

- color images to black and white, 529, 539-540
- digital lens to film equivalent, 180-181
- photos to artistic sketches, 374
- RGB to CMYK, 565

Corel Photo Album, 321**correcting exposure with Photoshop, 472-473****couples, photographing, 424**

- wedding photography, 436

Crop tool (Photoshop), 357, 472**cropping photographs, 224-226, 357, 558**

- Photoshop, 452
- sports-related, 494
- wildlife shots, 472

curved lines, composing in landscape photographs, 462**curves (Photoshop), 352-353, 362****customer reviews, 66**

D

D-SLR cameras, 44, 49

- batteries, 158
 - charging, 108
- battery grips, 160
- built-in flash, 116
- camera straps, 141
- cleaning, 129-131, 140-141
- composition, 115

continuous shooting mode, 125**exposure, adjusting**

- aperture-priority mode, 120
- automatic shooting modes, 119
- bracketing, 121-122
- full-manual mode, 121
- shutter-priority mode, 120

exposure, adjusting, 118**external battery packs, 160****external flash units, selecting, 149****features, 104, 107****focusing, 123****histograms, displaying, 127****holding, 113-114****image information, viewing, 126****ISO sensitivity, adjusting, 118****LCD hoods, 141****lens hoods, 139****lenses**

- changing, 109
- conversion lenses, 137
- filters, 138-139
- focal length, 170-172
- interchangeable, 170
- removing, 109
- selecting, 136
- wide-angle, 173

light meters, selecting, 148-149**maintenance, 128****media card readers, selecting, 148****memory cards**

- inserting, 108
- selecting, 147

menu options, configuring, 110**photos**

- deleting, 128
- transferring to PC, 128, 300-301

playback mode, 126**rechargeable battery packs, 159-160****recommended accessories, 155****remote control mode, 126****self-timer, 125****single shots, shooting, 125****speedlights, using, 116****status display, 117****tripods, using, 114****turning on and off, 108****viewfinder, 112****white balance, adjusting, 118****data transfer rates of storage media, 168****dedicated photo printers, 34****deleting photos from D-SLRs, 128****depth of field**

- controlling, 285, 294-296
- landscape photography, 459
- macro photography, 521

design principles of effective composition

- emphasis on single subject, 206
- filling the frame, 211
- orientation, 208-209
- positioning of subject, 212-214
- telling a story, 205

diffusers, 253**diffusion filters, 195****digital darkroom**

- equipment, 24
 - computer, 26-27
 - desk space, 25
 - input devices, 31-32
 - media readers, 30-31
 - monitor, 27-29
 - photo editing software, 36
 - printers, 33, 36
 - scanners, 32-33
 - storage media, 29
- photo processing workflow, 36-38

digital file formats, 17

- JPG, 18-19
- raw, 19-20
- selecting, 20-21
- TIF, 18-19

digital image sensors

- image capture process, 13-14
 - photodiodes, 16
- storing the image, 15
- types of, 14

Digital Manipulation Code of Ethics, 378**digital picture frames, selecting, 154****digital zoom feature, 179****digital-to-film lens conversion, 180-181**

displaying EXIF data, 305-307
 dpi (dots per inch), 311
 drama, creating with shadows, 256
 drum scanners, 310
 dust, removing from images, 370
 Dust and Scratches filter (Photoshop), 370
 dynamic range, 311

E

editing EXIF data, 306
 editing software, 61
 editing tools (Photoshop), 333-336
 emailing photos, 569-570
 erasable memory, 163
 EXIF (Exchangeable Image File Format) data
 displaying, 305-307
 editing, 306
 exposure, 359
 adjusting for black-and-white, 530
 aperture, f/stops, 272
 automatic exposure systems, 276
 versus manual exposure systems, 277
 when not to use, 277-278
 bracketing, 281
 controlling
 with aperture, 272
 with ISO speed, 274
 with shutter speed, 272-274
 with Zone System, 285
 correcting with Photoshop, 451-452
 D-SLRs, adjusting, 118
 aperture-priority mode, 120
 automatic shooting modes, 119
 bracketing, 121-122
 full-manual mode, 121
 shutter-priority mode, 120
 EV values, calculating, 275-275
 importance of, 270
 landscape photography, correcting with Photoshop, 472-473

Law of Reciprocity, 274
 manual exposure systems, 278
 aperture priority, 280
 exposure compensation, 279
 preprogrammed scene settings, 279
 shutter priority, 280
 total manual exposure, 280
 overexposure, 271
 underexposure, 271, 282-283
 exposure compensation, 279
 extending battery life, 161-163
 external battery packs, 160
 external flash units, selecting, 149
 external hard drives, 29
 external media readers, 30-31

F

f/stops, 272
 face recognition technology, 288
 feathering Selection areas, 339
 figure skating events, photographing, 492
 file format
 effect on print quality, 559-560
 selecting for professional applications, 565
 file types, 60
 files, opening, 331
 fill flash, 245-247
 fill layers, 345
 film photography
 comparing with digital photography, 10-11
 film processing workflow, 38
 future trends, 21
 film scanners, 32
 film speed, 274
 filters, 138-139
 attaching, 185-187
 Bayer array, 14
 black-and-white photography, 537-539
 Cokin Creative Filter System, 184
 colored, 192-195
 gels, 255
 ND, graduated ND filters, 190-192
 Photoshop, applying, 348
 polarizing, 187-188
 special effect, 195-197
 UV, 188
 fireworks, photographing at night, 549
 fisheye lenses, 176
 flash falloff, 177, 241
 flash memory, 163
 CF format, 166
 data transfer rates, 168
 memory sticks, 167
 MMC format, 165
 SD format, 166
 SDHC format, 166
 selecting, 167-16
 xD-Picture Card format, 167
 flash photography
 back shadows, avoiding, 243
 fill flash, 245-247
 flash mode, selecting, 242-243
 red eye effect, avoiding, 243
 speedlights
 bounce flash, 248-250
 off-camera positioning, 250
 speedlights, 247-248
 when to use, 241
 flash studio lighting, 252
 flash sync, 59
 flat lighting, 402
 flatbed scanners, 32
 flattening multiple layers in Photoshop, 347
 Flickr, 571-572
 flowers, photographing
 lighting, 468
 recommended equipment, 466
 still life photography, 503-504
 subject, isolating, 467
 focal length, 170-172
 focal lock, 291-294
 focal point, 170
 determining in landscape photographs, 462

focusing. *See also* autofocus
 on background patterns, 288, 291
 blurry photographs, sharpening, 296
 D-SLRs, 123
 depth of field, controlling, 294-296
 on foreground patterns, 288, 291
 manual focus, 294
 subject, selecting, 287-288
 with point-and-shoot cameras, 92

food, still life photography, 508-512

football games, shooting, 489

foreground
 landscape composition, 459
 patterns, focusing on, 288, 291

FotoWare FotoStation Pro, 323

framing the subject, 228-229

free photo editing programs, 324

front curtain flash mode, 242

front lighting, 233

full-manual mode (D-SLRs), 121

G

gels, 255

geometric shapes, importance of in landscape photography, 462

GIF file format, 20

glamour beauty effect, creating in Photoshop, 416

gobos, 255

golden hour, 450, 456

golf events, shooting, 493

graduated ND filters, 190-192

grayscale, 530

group portraits, shooting, 408-409

groups of people, photographing, 425-426

gymnastic events, shooting, 492

H

hair lighting, 405

halftone pattern, 315

harmonizing colors, 261

histograms, viewing
 on D-SLRs, 127
 in Photoshop, 348

hockey games, shooting, 490

horizon, composing for landscape photography, 461

Hue/Saturation control (Photoshop), 364

I

image capture process, digital image sensors, 13-14

image information, viewing on D-SLRs, 126

image sensors
 aspect ratio, 202
output dimensions, 203-205
 cleaning, 129-131, 141
 digital-to-film lens conversion, 180-181

image stabilization, 54

images
 digital file formats
JPG, 18-19
raw, 19-20
selecting, 20-21
TIF, 18-19
 digital file formats, 17
 file types, 60
 quality of, factors affecting, 13
 size of, adjusting for online use, 513
 storage media, 15

importing raw files, 331-332

indoor lighting, 239-240

indoor photography
 backgrounds, selecting, 151
 light tents, selecting, 152
 sporting events, photographing, 481-482
 studio lighting, selecting, 150
 windows, photographing through, 550
reflections, dealing with, 551-552

inkjet printers, 34

input devices, 31-32

insect photography, 523-524

intensity levels, adjusting, 361

internal battery packs, 159

IrfanView, 321

ISO, 59. *See also* sensitivity
 adjusting for black and white, 531
 exposure, controlling, 274
 setting on D-SLRs, 118

isolating the subject, 221-224

J-K-L

JPG files, 18
 compression, effect on image quality, 19
 opening, 331

landscape format, 208-209

landscape photography, 458. *See also* nature photography
 background, 460
 composition, 459-460
 depth of field, controlling, 459
 exposure, correcting with Photoshop, 472-473
 focal point, determining, 462
 foreground, 459
 geometric shapes, importance of, 462
 golden hours, 456
 lines, importance of, 461-462
 middle ground, 460
 recommended equipment, 458
 rule of thirds, applying, 461
 sky, emphasizing, 464
 sunrise/sunset, photographing, 456-457
 urban landscapes, photographing, 474
 weather, incorporating, 465

Lasso selection tool (Photoshop), 337

Law of Reciprocity, 274

layers (Photoshop), 341-342
 adjustment layers, 344
 creating, 344
 fill layers, 345

flattening, 347
 layer styles, 345-34

LCD hoods, 141

LCD viewfinder, 76-78
 advanced options, 78-79

leading lines, effect on composition, 229

lens adapters, 137-138

lens cap replacements, 139

lens filters, 138-139

lens flare, adding to images, 372

lens hoods, 139

lenses, 54, 170
 conversion lenses, 137-139
 digital-to-film conversion, 180-181
 filters
 attaching, 185-187
 Cokin Creative Filter System, 184
 Cokin Magnefix system, 187
 colored, 192-195
 graduated ND, 190-192
 ND, 190
 polarizing, 187-188
 special effect, 195-197
 UV, 188
 focal length, 170-172
 macro, 172, 517
 selecting, 136, 174
 step-up rings, 186
 telephoto, 172, 177
 wide-angle, 173, 176
 zoom, 54, 178-179

Levels control (Photoshop), 350, 363

Li-Ion (lithium-ion) batteries, 160

light meters, selecting, 148-149

light tents, selecting, 152

light-based filters, 198

lighting. See also flash photography
 45-degree lighting, 235
 accessories, 252-255
 backlighting, 235
 black-and-white photography, 534
 candid photography, 420
 effect on color, 266
 exposure. *See exposure*
 front lighting, 233

golden hours, 238
 hair lighting, 405
 indoor lighting, 239-240
 light source, positioning, 232
 macro photography, 518-520
 outdoor lighting, 236-238
 overhead lighting, 232
 portrait photography, 392
 soft lighting, 418
 studio lighting, 394-402
 rim lighting, 405
 side lighting, 233
 still life photography, 499-501
 studio lighting. *See studio lighting*
 travel photography, 450
 underwater photography, 553
 white balance, achieving, 267-268

lines, importance of in landscape photography, 461-462

lossless compression, 18

lossy compression, 18

low-cost photo editing programs, 325-326

M

Mac operating system, photo storage location, 303

macro mode feature, 56, 515-516

macro photography
 background, selecting, 520
 composition, 522
 depth of field, selecting, 521
 insects, photographing, 523-524
 lighting, 518-520
 macro mode, 515-516
 products, photographing, 524
 recommended equipment
 cameras, 517
 lenses, 172, 517
 recommended equipment, 518
 subject, positioning, 520
 versus close-up photography, 526

Magic Wand tool (Photoshop), 338

Magnefix system, 187

maintaining
 D-SLRs, 128
 point-and-shoot cameras, 99-101

manual exposure systems, 278
 aperture priority, 280
 exposure compensation, 279
 preprogrammed scene settings, 279
 shutter priority, 280
 total manual exposure, 280
 versus automatic exposure systems, 277

manual focus, 294

manual shooting modes, 58, 121

Marquee selection tool (Photoshop), 337

matrix metering, 277

media card readers, selecting, 148

megapixels, 53
 reducing resolution for
 online photo sharing, 568

memory cards
 CF format, 166
 data transfer rate, 168
 flash memory, 163
 inserting in D-SLRs, 108
 memory sticks, 167
 MMC format, 165
 SD format, 166
 SDHC format, 166
 selecting, 147
 storage capacity, 164
 transferring photos to computer, 301
 xD-Picture Card format, 167

memory sticks, 167

menu systems, 57
 options, configuring
 D-SLRs, 110
 point-and-shoot cameras, 74-76

merchant reviews, 68

metering systems, 276

Microsoft Expression Media, 323

middle ground, landscape composition, 460

MMC (MultiMediaCard), 165

monitors, color calibration, 39-40
calibration kits, selecting, 152

monopods, 145

mood-enhancing colors, 263, 266

motion blur, adding to images, 494

motorsports, shooting, 493

moving lights, shooting at night, 548

multiple subjects, focusing on, 288

multiple-pass scanners, 310

N

natural light

ambient light, utilizing for night photography, 547-548

golden hours, 456

landscape photography
depth of field, controlling, 459
recommended equipment, 458

landscape photography, 458
sunrise/sunset, photographing, 456-457

nature photography. *See also* insect photography; landscape photography; underwater photography

flowers

lighting, 468

recommended equipment, 466

subject, isolating, 467

raindrops, photographing, 468

weather, incorporating, 465

wildlife, photographing
preparedness, importance of, 470
recommended equipment, 469-470

ND (neutral density) filters, graduated ND filters, 190-192

negatives, scanning, 316

night photography, 545

ambient light, utilizing, 547-548

fireworks, photographing, 549

moving lights, photographing, 548

people, photographing, 546

normal lenses, 175

NPPA (National Press

Photographer's Association), Digital Manipulation Code of Ethics, 378

O

off-center composition, 446

rule of thirds, 214, 218-220

online photo printing services, 563, 566

online photo sharing

photo sharing sites, 570

Flickr, 571-572

via email, 569-570

opening files, 331

operating systems, photo storage location

Mac, 303

Windows, 303

optical viewfinder, 76-78

organizing photos, 303

orientation, 208-209

outdoor lighting, 236-238

outdoor photography, still-life, 514

overexposure, 271

as special effect technique, 281-282

overhead lighting, 232

P

panning, 487

panoramic cameras, 52

panoramic images, creating, 376

patterns, effect on composition, 229

PCX file format, 20

pen tablets, 31

people, candid photography, 422

babies, 428-429

children, 427

couples, 424

groups, 425-426

pets, photographing, 430-431

photo editing. *See also* photo editing software

computer, minimum requirements, 26-27

monitors, minimum requirements, 28

pen tablets, 31

photo editing software, 36

Adobe Photoshop CS. *See* Photoshop

free software, 324

low-cost software, 325-326

professional software, 327

selecting, 324

photo management programs

consumer programs, 321-322

professional programs, 322-324

selecting, 320

photo processing workflow, 36-38

Photodex CompuPic Pro, 321

photodiodes, resolution, 16-17

photofloods, 251

photographs

archiving, 304-305

cropping, 558

resolution, setting, 559

deleting

from D-SLRs, 128

from point-and-shoot

cameras, 98

emailing, 569-570

organizing, 303

printing

at home, 560-562, 566

file format, importance of, 559-560

for professional applications, 563-565

- online photo printing services, 563, 566
- photo processing services, 562, 566
- printing, 557
- resolution, setting, 559
- sharing online
 - Flickr, 571-572
 - photo sharing sites, 570
 - resolution, 568
 - touching up, 558
- Photomerge tool (Photoshop), 376**
- Photools IMatch, 323**
- Photoshop**
 - areas, selecting, 336-338
 - auto fix controls, 340
 - background, removing, 413
 - basic settings, adjusting, 340
 - black and white images
 - contrast/brightness, adjusting, 541
 - spot color, adding, 542-543
 - candid photos, enhancing, 432
 - background, blurring, 433
 - unwanted objects, removing, 434-435
 - Clone Stamp tool, 368
 - removing unwanted objects from photographs, 453
 - Color Balance control, 364
 - color channels, 351
 - color images, converting to
 - black and white, 539-540
 - contrast, adjusting, 360
 - Crop tool, 357, 452, 558-559
 - Curves control, 352-353, 362
 - Dust and Scratches filter, 370
 - editing tools, 333-336
 - exposure, adjusting
 - exposure, correcting, 359, 451-452, 472-473
 - filters, applying, 348
 - glamour beauty effect, creating, 416
 - histograms, 348
 - Hue/Saturation control, 364
 - intensity levels, adjusting, 361
 - layers, 341-342
 - adjustment layers, 344
 - creating, 344
 - fill layers, 345
 - flattening, 347
 - styles, 345-347

- Lens Flare Filter, 372-374
- Levels control, 350, 363
- photographs, printing, 561-562
- Photomerge tool, 376
- red eye, removing, 356
- Reduce Noise filter, 370
- selection areas, feathering, 339
- skin flaws, removing, 416
- Spot Healing Brush tool, 367
- Unsharp Mask feature, 365-367
- workspace, 330
- Photoshop Elements, comparing with Photoshop CS, 327**
- PicaJet Photo Organizer, 321**
- Picasa, 321, 324**
- pixels, 11**
 - resolution, 16-17
- plane of focus, 12**
- playback mode, D-SLRs, 126**
- PNG file format, 20**
- point-and-shoot cameras, 44-47**
 - automatic shooting modes, 87-92
 - batteries, changing, 73
 - built-in flash, 85
 - cleaning, 99-101
 - continuous shooting mode, 93-95
 - conversion lenses, 179
 - features, 69-70
 - focusing, 92
 - holding, 79, 82
 - lens adapters, 137-138
 - memory card, inserting, 74
 - menu options, configuring, 74-76
 - photographs
 - deleting, 98
 - reviewing, 96
 - transferring to PC, 99
 - picture quality, 46
 - self-timer, 95
 - single shots, shooting, 92
 - tripods, using, 83
 - turning on an off, 73
 - viewfinder, advanced options, 78-79
 - white balance, correcting, 86
 - zooming in, 84
- polarizing filters, 187-188**

- portable photo viewers, selecting, 153**
- portrait format, 208-209**
- portrait photography, 382**
 - background, selecting, 383
 - black-and-white portraits, 410-412
 - camera, positioning, 389
 - child portraits, 406-408
 - composition, 390
 - enhancing in Photoshop
 - background, removing, 413
 - glamour beauty effect, creating, 416
 - skin flaws, removing, 416
 - focusing on subject, 392
 - group portraits, 408-409
 - lighting, 392
 - hair lighting, 405
 - rim lighting, 405
 - soft lighting, 418
 - studio lighting, 394-402
 - photographing at night, 546
 - posing, 390
 - props, 388
 - recommended equipment, 382-383
 - sepia tone portraits, 412
 - wardrobe considerations, 385
- positioning**
 - light source
 - 45-degree lighting, 235
 - backlighting, 235
 - front lighting, 233
 - off-camera speedlights, 250
 - overhead lighting, 232
 - side lighting, 233
 - subject for macro photography, 520
- ppi (pixels per inch), 311**
- Preclick Gold Photo Organizer, 321**
- preparedness, importance of for wildlife photography, 470**
- preparing photographs for professional applications, 563**
 - color spaces, 564-565
 - file format, selecting, 565
- preprogrammed scene settings, 279**
- primary colors, 258-260**
- print quality, effect of file format on, 559-560**

printers, 33, 36

printing photographs, 557

at home, 560-562, 566
for professional applications,
563

color spaces, 564

file format, selecting, 565

RGB, converting to CMYK,
565

online photo printing serv-
ices, 563, 566

photo processing services,
562-566

product photography, 524

products, still life photogra-
phy, 505-507

professional food photogra-
phy, 509-511

professional photo editing pro-
grams, 327

professional photo manage-
ment programs, 322-324

professional photo printers, 35

props, guidelines for portrait
photography, 388

prosumer cameras, 44-48

Q-R

quality of images, factors
affecting, 13

Quick Selection tool
(Photoshop), 338

raindrops, shooting, 468

raw files, 19-20
importing, 331-332

rear curtain flash mode, 242

rechargeable batteries,
158-160

recommended camera acces-
sories, 155

red eye, removing, 243, 356

Reduce Noise filter (Photoshop
CS), 370

reflections, minimizing when
photographing through win-
dows, 551-552

reflective scanners, 310

reflector cards, 255

reflectors, 253

refraction, 12, 170

relationship between aperture
and shutter speed, 274

Rembrandt lighting, 400

remote control mode (D-SLRs),
126

removing

lenses from D-SLR cameras,
109

red eye, 356

removing image elements in
Photoshop

background, 413

skin flaws, 416

unwanted objects, 434-435

resolution, 16-17, 311

megapixels, 53

reducing for online photo-
sharing, 568

setting, 559

RGB color spaces, 564-565

rim lighting, 405

ring lights, 519

road signs, shooting, 440

RS-MMC (Reduced Size MMC)
memory cards, 165

rule of thirds, 214, 218-220

applying to landscape pho-
tography, 461

applying to sports photogra-
phy, 485

S

scan process, 311-312
best practices, 313-315

scanners, 32-33

color depth, 311

drum scanners, 310

dynamic range, 311

resolution, 311

TWAIN, 311

scenic shots, adding people to,
439

scratches, removing from
images, 370

screw-mount lens filters,
184-185

scrims, 254

SD (Secure Digital) cards, 60,
166

SDHC (Secure Digital High
Capacity) cards, 166

secondary colors, 259-260

selecting

areas in Photoshop, 336

Lasso selection tool, 337

Magic Wand selection tool,
338

Marquee selection tool, 337

Quick Selection tool, 338

backgrounds, 151

for portrait photography,
383

camera equipment, 61-63

batteries, 147

camera bags, 142, 145

cleaning kits, 140

external flash units, 149

image sensor cleaners, 141

LCD hoods, 141

lens adapters, 137-138

lens filters, 138-139

lens hoods, 139

lenses, 136-137

light meters, 148-149

manufacturers, 63-64

merchant reviews, 68

media card readers, 148

memory cards, 147

shopping tips, 65-67

straps, 141

tripods, 145

digital file format, 20-21

digital picture frames, 154

flash mode, 242-243

lenses, 174, 517

light tents, 152

memory cards, 167-168

monitor calibration kits, 152

photo editing software

free software, 324

low-cost software, 325-326

professional software, 327

photo management software,
320

consumer programs,

321-322

professional programs,

322-324

portable photo viewers, 153

studio lighting setup, 150,
256

subject for focus, 287-288

wardrobe for portrait photog-
raphy, 385

selection areas, feathering, 339

self-timer feature

D-SLR cameras, 125

point-and-shoot cameras, 95

sensitivity, 59

sepia tone portraits, shooting, 412

shadows

back shadows, avoiding, 243

drama, creating, 256

fill flash, 245

sharing photos online, 568

photo sharing sites, 570

Flickr, 571-572

resolution, 568

via email, 569-570

sharpening blurry photographs, 296, 365-367

short lighting, 397

shutter priority, 280

shutter speed

exposure, controlling, 272-274

image stabilization, 54-56

Law of Reciprocity, 274

manipulating for effect, 284

setting for sports photography, 479

shutter-priority mode (D-SLRs), 120

side lighting, 233, 401

simple composition, impact of, 230

single shots, shooting with

point-and-shoot cameras, 92

single-pass scanners, 310

skin flaws, removing in

Photoshop, 416

sky, emphasizing in landscape photographs, 464

slow sync flash mode, 242

snoots, 255

soccer games, photographing, 490

soft boxes, 253

soft lighting for portrait photography, 418

soft-focus filters, 195

software, 61

EXIF editing programs, 306

special effect filters, 195-197

special effect techniques

artistic sketches, converting images to, 374

blurring, 284

depth of field, controlling, 285

lens flare, adding to images, 372

overexposure, 281-282

underexposure, 282-283

specialty cameras, 51-52

speedlights, 116, 247

bounce flash, 248-250

off-camera positioning, 250

sports photography

anticipating the shot, 480-481

baseball, 489

basketball, 489

burst mode, 481

camera position, importance of, 496

composition, applying rule of thirds, 485

composition, 483

figure skating, 492

football, 489

golf, 493

gymnastics, 492

hockey, 490

images, cropping, 494

indoor sports, photographing, 481-482

motion blur, adding, 494

motorsports, photographing, 493

panning, 487

recommended equipment

camera, selecting, 478

lenses, selecting, 478-479

shutter speed, 479

soccer, 490

subject, selecting, 485

swimming, 492

tennis, 491

track and field, 491

volleyball, 491

spot color, adding to black-and-white images, 542-543

Spot Healing Brush tool (Photoshop), 367

spot metering, 277

standard batteries, 158

star filters, 197

step-up rings, 186

still life photography

background, selecting, 499

brightness, adjusting, 512

flowers, 503-504

food, photographing, 508-512

lighting, selecting, 499-501

outdoor photography, 514

product photos, 505-507

recommended camera settings, 498

storage capacity of memory cards, 164

storage media, 15, 60

memory cards

CF format, 166

flash memory, 167-168

MMC format, 165

SD format, 166

SDHC format, 166

xD Picture Card format, 167

memory sticks, 167

strobe lighting, 250-251

accessories, 252-255

broad lighting, 395

butterfly lighting, 399

continuous lighting, 251

flash lighting, 252

flat lighting, 402

portrait photography, 394-402

Rembrandt lighting, 400

selecting, 150, 256

short lighting, 397

side lighting, 401

subject

positioning for macro

photography, 520

selecting

for black-and-white photography, 531

for sports photography, 485

subtractive color process, 258

Sunny 16 Rule, 275

sunrise/sunset, shooting,
456-457

swimming games, shooting,
492

T

telephoto lenses, 172, 177
digital-to-film lens conver-
sion, 180-181

tennis matches, photograph-
ing, 491

tertiary colors, 259-260

thermal-dye printers, 35

TIF files, 18-19
opening, 331

total manual exposure, 280

touching up photos, 558

track and field events, photo-
graphing, 491

transfer speed of storage
media, 168

transferring photos to com-
puter, 128
via memory card reader, 301
via USB cable, 300-301

transparent scanners, 310

travel photography
angle of shot, selecting, 448
capturing the atmosphere,
440
framing the shot, 444-446
lighting, 450
narrative flow, creating, 439
recommended equipment,
437-438
road signs, shooting, 440
selecting a shot, 439
stock photos, avoiding, 447
wildlife, shooting, 441-443

tripods

for D-SLRs, 114
for point-and-shoot cameras,
83
selecting, 145

Twain, 311

twin lights, 519

U

Ulead Photo Explorer, 322

umbrellas, 253

underexposure, 271
as special effect technique,
282-283

underwater photography, 51,
552
lighting, 553

Unsharp Mask feature
(Photoshop), 365-367

urban landscapes, photo-
graphing, 474

USB cable, transferring photos
to computer, 300-301

UV filters, 188

V

vacation photography
cropping photos with
Photoshop, 452
exposure, correcting with
Photoshop, 451-452
memorable shots, creating,
454
See travel photography, 437
unwanted objects, removing
with Photoshop, 452

vertical lines, composing in
landscape photography, 461

video recording, 61

viewfinder, 56
on D-SLRs, 112
on point-and-shoot cameras,
advanced options, 78-79

volleyball, shooting, 491

W

water-resistant cameras, 52

waterproof housings, 552

weather, incorporating in
landscape photographs, 465

websites, photo sharing sites,
570

Flickr, 571-572

wedding photography, 436

white balance, 59, 267-268
adjusting on D-SLRs, 118
correcting with point-and-
shoot cameras, 86

wide-angle lenses, 173, 176
flash falloff, 177

wildlife photography, 441-443
photographs, cropping, 472
preparedness, importance of,
470
recommended equipment,
469-470

windows, photographing
through, 550-552

Windows operating system
photo editing, system
requirements, 26
photo storage location, 303

Windows Photo Gallery,
322-324

workspace, 330

X-Y-Z

xD-Picture Card, 167

Zone System

exposure, controlling, 285

zoom lenses, 54, 178
digital-to-film lens conver-
sion, 180-181
versus digital zoom, 179

zooming in with point-and-
shoot cameras, 84