

Page numbers in bold refer to illustrations

A

abstract composition, 60, **61**
actions in Photoshop, 101
adjustment layers, 86–7
Adobe. *see* Lightroom; Photoshop; Photoshop Elements
aerial photography, **148**
aging photos artificially, 110–11
Alien Skin filters, 92–3
aperture, 38–9, 40
apps (applications), 25
architecture, **62, 63, 158–61, 182**
atmosphere. *see* mood of images; weather effects
autofocus limitations, 70, **71**
AutoFx filters, 91

B

back-lighting, 162
see also silhouettes
balance in composition, 56
Bayer sensors, 14
bits, 15
black and white conversion from color, 11, **12, 79–81**
Black & White adjustment tool (in Adobe Photoshop), 11, 81
blue
 changing tonal value of, **11, 12, 31, 80**
 perception of light as, 10
 Prussian blue, 114
blue filters, **12, 31**
blue toning, 108–9, 114–15, **122, 130**
Blur tool, **128**
blurring movement, 41, **73**
borders around photos, 136–7
bridge cameras, 24
Brightness/Contrast tool (in Photoshop), 82
buildings, **62, 63, 158–61, 182**
bulb mode, 41
burning and dodging, 85, **129**
bytes, 15

C

camera sensors, 14–15
camera shake, 41
cameras, 22–5

cell phones, 25
center-weighted metering, 45
Channel Mixer (in Photoshop), 80
"clipping," 46–7
clouds. *see* skies
color
 how light is perceived as, 10
 overall tinting with. *see* toning
 selective use of in black and white photos, **72, 120–1**
colored filters, 11–12, 31
Colorize (in Photoshop), 79, 109
colors
 converted to tones of gray, 11, **12**
 RGB combinations, 15, 114
 using Channel Mixer to adjust, 80
 see also individual colors eg red
compact cameras, 24
composition
 abstraction, 60, **61**
 color in black and white photos, **72, 120–1**
 "decisive moment" of, 66, **67, 75**
 framing within images, 64, **65, 73, 182**
 minimalist approach to, 68, **69, 74**
 as part of previsualization, 13
 patterns, 62, **63**
 photo shape, 58, **59**
 rules of, 56–7
 selective focus in, 68, 70, **71, 163, 184**
 in still life photography, 162–3
continuous ink system (CIS), 172
contrast, 11, **12, 48–9, 82**
see also silhouettes
converging verticals, 159
converting color to black and white, 11, **12, 79–81**
creative photography. *see* special effects
cropping, 58, **59**
Curves (in Photoshop), 84
cyanotypes, 114–15

D

depth of field, 39
 achieving maximum, **38, 39, 62, 63**
 focusing for limited, 163, **165**
 using minimal, 68, 70, **71, 163, 184**
 when using frames, 64, **73**

desaturation as way of converting color photos
to black and white, 79
digital noise, 42–3
see also grain
digital sensors, 14–15
DNG file format, 17
document size adjustment, 175–6
dodging and burning, 85, **129**
DSLR (digital single-lens reflex) cameras, 23
dynamic range, **44**, 45, 46–7
see also HDR (high dynamic range) photos
dynamic tension in images, 56

E

editing images
8-bit vs 16-bit files, 15
comparison of software for, 94–7
converting color to black and white, 79–81
in Photoshop. *see* Photoshop
tonal adjustments, 82–5
using Exposure 3, 92–3
see also special effects
Electronic Viewfinders (EVF), 23
Elements. *see* Photoshop
emotional resonance of photographs, 13, 50, 64,
65
see also mood of images
evaluative metering, 44–5
event photography, 154–7
exposure, 36
aperture affecting, 38–9, 40
high and low-key, 50, **51**
ISO affecting, 42
metering for, 44–5
shutter speed affecting, 40–1
See also histograms
Exposure 3 (software), 92–3

F

f-stops, 38
see also aperture
file formats, 16–17
film grain, 104
simulating, **91**, 105–6, **107**
filter holder systems, 30
filters, 30–3
colored, 11–12, 31
in editing software, 11–12, 80, 91–3
see also sharpening; special effects

filters (cont'd)
ND-graduate, 33
neutral density, 33
polarizing, 15, 32–3
flashguns, 48, 143
flatbed scanners, 28–9, 116–18
focal lengths of lenses, 26–7
foliage, 11, **12**, 31, 126, **127**
framing in images, 64, **65**, **73**, **182**
"freezing" action, 41
frontal lighting, 162

G

GIMP, 96
glass, 158, 163, **164**
glossary, 186–8
grain, **91**, 104–7
see also noise
grass, **11**, **12**, 31, **126**, **127**
gray, 15
gray tones of colors, 11, 12
green, 11, 12, 31, 126–7
green filters, **12**, 31
gum bichromate, 128–31

H

halation, 93
see also infrared photography
halftone pattern, 132–3
hand-coloring effect (simulated), 120–1
handheld light meters, 45
HDR (high dynamic range) photos, 47, 88–90
high-contrast images, 48–9
high-key exposure, 50, **51**
histograms, 46–7
in Curves tool (in Photoshop), 84
of high- and low-key exposures, 50
in Levels tool (in Photoshop), 83
of posterized image, **15**
hyperfocal distance, 39

I

image resolution, 175
image size adjustment, 175–6
in-camera metering, 44–5
incident metering, 45
infrared photography, 93, 126–7

inkjet printers, 168–72
 see also paper; paper profiles
inks for printing, 168, 170, 172
interpolation, 176
ISO, 42

J

JPEG files, 16–17, 177

L

landscape photography
 "decisive moment" in, **75**
 leading lines in, **153**
 light in, **18**, 150–1, **152**
 and lith printing, **134**, **135**
 low-key exposure in, 50
 maximum depth of field in, 39
 using a wide-angle lens in, 26–7
 using filters in, 31–3
 weather in, 18, 48, 151

Layers (in Photoshop), 86–7

leading lines in images, 56, **57**, **153**

lenses, 26–7

 for architectural photography, 159
 to create abstract images, 60, **61**
 and depth of field, 39
 macro lenses, 60, **61**, **74**
 manufacturers of, 189
 telephoto lenses, 26–7, 39, 60
 tilt and shift, **161**
 zoom lenses, 26, 38, 66

Levels tool (in Photoshop), 83

light

 for architectural photography, 158
 and contrast, 48
 controlling amount entering camera. *see*
 aperture; shutter speed
 at different times of day, 147, **149**, 150, 158
 effects of direction of, 162
 in landscape photography, **18**, 150–1, **152**
 measuring amount of, 44–5
 measuring sensitivity of sensor to, 42
 qualities of, 36, **37**
 seasonal, 150–1

light meters, 45

light spectrum, 10, 126

lighting set-ups, 143, 162

Lightroom, 95

lith printing, 134–5

long lenses. *see* telephoto lenses

low-contrast images, 48–9

low-key exposure, 50

M

macro lenses, 60, **61**, **74**

macro photography, 39

Man Ray, 112, 116

manufacturers of equipment, 189

matrix metering, 44–5

maximum print size, 15

metering modes, 44–5

Miller, Lee, 112

mood of images

 effect of contrast on, 48, 50

 effect of lighting on, **143**

 simulating aging to affect, 110–11

 using soft focus to affect, 102–3

 using texture overlays to affect, **122**

 using toning to affect, 108, **122**, **130**

movement, 41, **73**

multi-segment metering, 44–5

N

ND-graduate filters, 33, 159

neutral density filters, 33

night photography, 158, **160**

noise, 42–3

see also grain

Noise filter (in Photoshop), 105

Noise Ninja, 43

noise reduction software, 43

O

old photos, 110–11

open-source software, 96–7

orange filters, 31

oversharpening, 177

P

paper, 128, **137**, 180–1

paper profiles, 173, 179

patterns as compositional element, 62, **63**

people

 avoiding in photographs, 159

 photographing. *see* portraiture

- perspective
 - effects of lenses on, 26–7
 - shooting from subject's, **154**
 - phones, 25
 - photocopy effect, 132–3
 - photograms, 116–19
 - Photomatix, 89
 - Photoscape, 96
 - photosensors, 14–15
 - Photoshop, 78
 - actions in, 101
 - Black & White adjustment tool, 11, **12**, 81
 - Brightness/Contrast tool, 82
 - Channel Mixer, 80
 - Colorize for tinting in, 79, 109
 - creating HDR photos with, 88–90
 - Curves tool, 84
 - desaturation in, 79
 - dodge and burn tools, 85
 - filters in, 91
 - Layers, 86–7
 - Levels tool, 83
 - paper profiles in, 173
 - printing from, 173–4
 - Smart Sharpen, 178
 - soft proofing in, 179
 - see also* special effects
 - Photoshop Elements, 78, 94
 - see also* Photoshop
 - Pictbridge, 172
 - Pictorialism movement, 128
 - Piknik, 97
 - Pixlr, 97
 - planning a shoot
 - for an event or wedding, 154–7
 - considering the weather, 151
 - still life set-up, 162–3
 - when traveling, **19**, 146–7
 - polarizing filters, 32–3, 158
 - portraiture
 - and architectural photography, 159
 - colored filters in, 31
 - establishing rapport with subjects, 142–3, 147
 - flash in, 143
 - low-key exposure in, 50
 - photographing adults, 143
 - photographing children, 142
 - sharpening effects in, 177
 - silhouettes in, 52
 - portraiture (cont'd)
 - soft focus in, 102–3
 - telling a story through, **144**, **145**, 147
 - in travel photography, 147
 - use of soft focus in, 143
 - wide-angle lens effects in, 27
 - post-processing. *see* editing images; special effects
 - posterization, 15
 - previsualization, 13
 - prime lenses, 26
 - print size limitations, 15, 175
 - printers, 168–72
 - see also* paper profiles
 - printing images
 - 8-bit vs 16-bit files, 15
 - image resolution for, 175
 - papers used in, 122, 128
 - from Photoshop, 174
 - profiles, 173
 - simulating darkroom effects. *see* special effects
 - simulating mass-production effects, 132–3
 - soft proofing, 179
 - proportions of photos, 58
 - Prussian blue, 114
 - purple, 10
- R**
- RAW files, 16–17, 23–4, 177
 - Ray, Man, 112, 116
 - rayographs, 116–19
 - red, 10, 11, **12**, 31, 80
 - red filters, 11, **12**, 31, 80
 - reflective metering, 44–5
 - reflectors, 48–9
 - repetition as compositional element, 62, **63**
 - resampling, 176
 - resizing an image, 175–6
 - resolution of images, 175
 - RGB color combinations, 15, 114
 - rule of thirds, 56
 - rules of composition, 56–7
- S**
- saving images, 15, 16–17
 - scanners, 28–9, 116–18
 - selective focus, 68, 70, **71**, 163, **184**
 - sensors, 14–15

sepia-toning, 108–9, **182**
shape of photos, 58, **59**
sharpening, 177–8
shutter speed, 40–1, 68, **73**
side-lighting, 162
silhouettes
 dark, 52, **53**, 64, 162
 white. *see* solarization
simplicity in composition, 68, **69**, **74**
size adjustment, 175–6
size of prints, maximum, 15, 175
skies
 how to lighten and darken, **11**, **12**, 31–3, **80**
 and quality of light, **36**, **37**, 48
 sharpening, 177
 using special effects with, 123, **125**, 127
slide scanners, 28–9
Smart Sharpen, 178
soft focus effect, **9**, 102–3, **128**, 143
soft proofing, 179
softboxes, 48
software
 HDR converters, 89
 noise reduction, 43
 open-source, 96–7
 photo-editing, 94–7
 see also Photoshop
 slide scanning, 29
 for smart phones, 25
solarization, **100**, 112–13
special effects, 100
 adding texture, 122–3
 aging photos artificially, 110–11
 cyanotypes, 114–15
 gum bichromate, 128–31
 halftone pattern, 132–3
 infrared, 126–7
 infrared photography, 93
 lith printing, 134–5
 photocopy effect, 132–3
 photograms, 116–19
 simulated hand-coloring, 120–1
 simulating film grain, **91**, 104–7
 soft focus, **9**, 102–3, **128**, 143
 solarization, **100**, 112–13
 split-toning, 95, 124–5
 toning. *see* toning
split-toning effect, 95, 124–5
sports photography, 66
spot metering, **44**, 45

squint test, 13
standard lenses, 27
still life, 162–5
storing images, 15, 16–17
summer photography, 150–1
Sumopaint, 97
symmetry in composition, 56

T

Talbot, William Henry Fox, 116
telephoto lenses, 26–7, 39, 60
texture overlays, 122–3
tilt and shift lenses, **161**
times of day for photography, 147, **149**, 150, 158
Tint in Black and White adjustment tool, 81
tinting. *see* hand-coloring effect (simulated);
 toning
tonal adjustments to photos in Photoshop, 82–5
tonal values, 8, 11, **12**
toning, 108
 applying digitally, 79, 81, 109
 using to enhance photographs, **9**, 108, **109**,
 122, **130**, **182**
 see also cyanotypes; split-toning effect
travel photography, 19, 146–9

V

viewfinders, 23, 24
vignetting, 30, 110
violet, 10
visible light, 10
Vuescan, 29

W

warm-toning, **9**, 108–9, **182**
water, photographing, 32, 41
wavelengths of visible light, 10
 see also colored filters
weather effects, 18, 48, 151
wedding photography, 155
white, 10, 15
wide-angle lenses, 26–7, 39
winter photography, 150

Y

yellow filters, 31

Z

zoom lenses, 26, 38, 66