

INDEX

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

Numbers

3D effects, 411

 buttons, **420–421**, 421

 holes, **415–416**, 416

 from scanner, **412–414**

 screw heads, **417–420**

 turntable, **422–429**

 combining layers, **427–428**

 finishing touches, **428–429**

 records, **422–424**

 stack of records, **424–426**

 turntable platter, **426**

3D graphics, importing, **435–439**

3D images, **452–459**

 stereo prints, **458–459**

 stereo viewer creation, **456–458**

 stereo viewing, **455–458**

3D objects

 scanning, 482

 wrapping image around, 429,
 429–434

3D Transform, 430, 430

A

<A> tag (HTML), 583

Absolute Colorimetric rendering intent,
 720

Accented Edges filter, 384, 790, 790

achromatic color, 868

actions, 257, 868

 appending extra steps, **268–269**

 convenience of, **258**

 creating, **258–269**, 765

 making new action, **260–262**

 recording, **262–264**

 starting new set, **259**

 deleting, **267–268**

 editing, 265–266

 excluding commands, 266

 as filters, **272–277**

 importing, **271–272**

 limitations, **271**

 playback, 265

 preferences, 318–319

 re-recording, **269**

 recorded message to explain, **267**

 saving, 264

 troubleshooting, **270**

Actions palette, 258, 263, 868

 clearing, 277

adaptive color palette, 492–493

Add Anchor Point tool, 157

Add Noise filter, 810–811, 811

adding to selection, 53

additive color, **538–539**, 708

additive primary colors, 868

ADF (automatic document feeder), 869

902 adjustment layers—Animation palette (ImageReady)

- adjustment layers, 133, **237–239**, 238, 868
 - as Photoshop advantage, 283
- Adobe Acrobat, PDF (Portable Document Files), 8
- Adobe Gamma calibration package, 10–11, 705, 868
- Adobe LiveMotion, 629
 - animating shapes, **637–646**
 - motion path, **643–646**, 644
 - spin, **641–642**
 - zooming in, 638, **638–640**
 - assigning active matte, **671–673**
 - building animation, **666–673**
 - interacting with images, **661–665**
 - optimization, **673–677**
 - text, **646–661**
 - dissolve, **647–650**
 - individual letter manipulation, **657–661**
 - rotating, **650–656**
 - TimeLine window, 638–639
 - vector objects, **630–637**
 - with Pen Selection tool, **634–635**
 - with Pen tool, **630–634**
 - with Transform tool, **635–637**
 - viewing file in browser, **678–679**
- Adobe PhotoDeluxe
 - panoramas from, **443–444**
 - printing many copies, 690, **690–691**
 - printing single copy in, **688–689**
- Adobe Photoshop. *See* Photoshop
- Adobe RGB color working space, **711**
- advertising banners, **563–565**
- airbrush, 868
- Airbrush tool, 25, 25, **76**
 - for Intuos tablet, 285
- Alien Skin, Xenofex filters, 378, 380, 380
- ALIGN attribute of tag (HTML), 570, 573
- Aligned setting for Clone Stamp tool, 61, 62, 67
- aligning
 - paths, 165–167
 - Web graphics, **576–579**, 578, 579
- alpha channel, 190, 868
 - fine-tuning by painting, **197–198**
 - saving selection as, **192–193**
 - viewing, **193–194**, 194
- ALT attribute
 - of <AREA> tag (HTML), 594
 - of tag (HTML), 570, 575
- Alt/Options, 49
- alternative text for graphic links, 583
- ambient lighting, 868
- anamorphic, 869
- anchor point
 - in Bézier curves, 156
 - editing, 168
 - placement on curved path, 160
- angle gradient, 78
- Angled Strokes filter, 791, 791
- angles, Measure tool to determine, 112
- animated GIF, 495, **610**, 869
 - complex, **619–626**, **621–626**
 - ImageReady to produce, **613–626**
 - tweening, **617–619**
 - planning, **610–612**
- animated Web graphics, 609. *See also*
 - Adobe LiveMotion
- animation, 766, 869
- Animation palette (ImageReady), 544, 544, 613, **613–614**

- anti-alias, 869
 - and halos, 521, 522
 - Photoshop vs. Painter vs. Illustrator, 346
 - anti-aliased option
 - for lasso tool, 53
 - for Magic Eraser tool, 88
 - Photoshop vs. Painter vs. Illustrator, 327
 - API (applications program interface), 869
 - Apple ColorSync, 702
 - Apple RGB color working space, **711**
 - applet, 869
 - application-specific commands,
 - Photoshop vs. Painter vs. Illustrator, **355**
 - applications program interface (API), 869
 - archive, 869
 - Area setting, for Art History Brush tool, 92
 - <AREA> tag (HTML), 593, 594
 - Art History Brush tool, **92–94, 254**
 - Options bar, 92, 93
 - artifact, 490, 491, 869
 - artistic filters, **769–783**
 - Colored Pencil filter, 769, 769
 - Cutout filter, 770, 770
 - Dry Brush filter, 385, 771, 771
 - Film Grain filter, 772, 772–773
 - Fresco filter, 773, 773
 - Neon Glow filter, 774, 774–775
 - Paint Daubs filter, 775, 775
 - Palette Knife filter, 776, 776
 - Plastic Wrap filter, 777, 777
 - Poster Edges filter, 778, 778
 - Rough Pastels filter, 779, 779
 - Smudge Stick filter, 780, 780
 - Sponge filter, 781, 781
 - Underpainting filter, 782, 782
 - Watercolor filter, 783, 783
 - ascender, 869
 - aspect ratio, 869
 - for photo finishers' prints, **695–697**
 - atmospheric perspective, 124
 - attribute, 869
 - Audio Annotation tool, 41–42
 - Auto Contrast, 216
 - Auto Erase with Pencil tool, 77
 - Auto F/X, 479
 - Auto levels, 216
 - automatic document feeder (ADF), 869
 - autotrace, 870
- ## B
- background, 870
 - erasing to, 294–295
 - extracting image from, 766
 - Photoshop vs. Painter vs. Illustrator, **291–295**
 - background color
 - of animated GIF, 610–611
 - in gradient, 78
 - Background Eraser tool, **33–35, 84–87**
 - Options bar, 85, 85
 - background graphics for Web pages, **497–505, 546–557, 602–605, 604**
 - full background design, **556–557, 557**
 - full page design, 504, 504, 505
 - margin backgrounds, **499–503, 500–501, 551, 551–556**
 - decorative, 555, **555**

904 background image—Bring Forward option for layer

- functional margins, **555–556**,
556
- size recommendations, 552
- specifics, **546–547**
- tiles, 497, **497–498**, 498, 548,
548–550
- background image, Paintbrush tool for,
70–75
- background layer, **127–128**
- backlighting, 870
- banding, 513, 747
- bandwidth, 471, 870
- Bas Relief filter, 832, 832
- baseline, 870
- Baseline curve style for type on path,
357
- baseline shift, 870
 - Photoshop vs. Painter vs. Illustrator,
327, **346**
- batch Action, 870
- Berezin Stereo Photography Products,
455–456
- Bevel and Emboss style, 147
- Bézier curves, 6, 7, 8, 156, 156, 870
- BGPROPERTIES attribute of <BODY>
tag (HTML), 605
- bidirectional printer cable, 745
- bilevel, 870
- bit, 870
- bit depth, 493, 871
- bitmaps, 9, 871. *See also* raster
graphics
- black, 871
- black-and-white images, 4
 - conversion to color, 767
- black point, 218, 871
 - setting, 223
- Black Point Compensation/Dither
rendering intent, **720**
- black printer, 871
- bleed, 871
- blemishes in photos
 - Clone Stamp tool to fix, **60–62**, 61
 - Smudge tool for, **97–99**
- blend, 871
- blending
 - edges, Smudge tool for, **97–99**
 - layers, 142, **142–144**
 - RGB colors, **721**
- blending mode, 871
 - for brush, 65
 - keyboard shortcuts for, 757–758
 - linked layers for, 134
- Blizzard action, 275, 275
- blur, 871
- Blur filter, 784, 784
- blur filters, **784–789**
 - Blur filter, 784, 784
 - Blur More filter, 785, 785
 - Gaussian Blur filter, 786, 786
 - Motion Blur filter, 787, 787
 - Radial Blur filter, 788, 788
 - Smart Blur filter, 789, 789
- Blur More filter, 785, 785
- Blur tool, **94–96**
 - Options bar, 95
- BMP file format, 9
- <BODY> tag (HTML), for background
image, 605
- BORDER attribute of tag
(HTML), 570, **579–580**
- border icons in Painter, **313–317**
- bright white, 724
- brightness, 871
- Bring Forward option for layer, 133

- Bring to Front option for layer, 133
 - brush icon in Layers palette, 126
 - Brush mover, 310, 311
 - brush stroke filters, **790–797**
 - Accented Edges filter, 384, 790, 790
 - Angled Strokes filter, 791, 791
 - Crosshatch filter, 792, 792
 - Dark Strokes filter, 793, 793
 - Ink Outlines filter, 794, 794
 - Spatter filter, 795, 795
 - Sprayed Strokes filter, 796, 796
 - Sumi-e filter, 797, 797
 - brush tracking, 318
 - Brushed Metal action, 276–277
 - bubbles, adding to picture, 404, 404–405, 405
 - burn, 872
 - Burn tool, **101–102**
 - Options bar, 101
 - burning, 101
 - buttons, **420–421**, 421
 - action set for, 271
 - buttons on Web pages, **558–560**, 559
 - byte, 872
- C**
- cables, bidirectional for printer, 745
 - cache, 872
 - for histogram, 208
 - setting preferences, 20
 - CADD (computer-aided drafting and design), 6
 - calibrating monitor, **10–12**, 872
 - calibration, 731, 872
 - calibration bars, 872
 - Caligari trueSpace, 435
 - camera ready, 872
 - canvas, 872
 - Canvas Size command, **114–115**
 - Canvas Size dialog box, 114
 - cast, 872
 - CCD (Charge-Coupled Device), 872
 - CD-ROM
 - for photographs, 111
 - to send photos to finishers, 699
 - CERN (Centre Européen pour la Recherche Nucléaire)
 - server-side image map format, 597
 - implementing, 600–601
 - chain icon in Layers palette, 126, 133, 134
 - Chalk & Charcoal filter, 833, 833
 - channel, 872
 - Channel Mixer, **234–237**, 873
 - Channel Options dialog box, **194–195**, 195
 - channels
 - in blending, 144
 - editing, **196–198**
 - keyboard shortcuts for, 762
 - levels adjustment, **221**
 - performing operations, **198–201**
 - deleting, 199
 - duplicating, 199
 - merging, 200
 - mixing, 201
 - splitting, 199–200
 - using multichannel, 200–201
 - for spot color, 201
 - swapping colors within, **235–236**
 - Channels palette, 191, **191–196**, 873
 - Character palette, 29, 29, 339, 873
 - characters in text animation, **647–661**
 - Charcoal filter, 834, 834
 - Charge-Coupled Device (CCD), 872

906 checkerboard to indicate transparency—color adjustment

- checkerboard to indicate transparency,
 - 130, 131
- chroma, 536–537, 873
- Chromalin, 873
- chromatic color, 873
- chrome, 873
- Chrome filter, 835, 835
- CIE (Commission Internationale de l’Eclairage), 873
 - color working space, 712
- circle
 - constraining Ellipse tool to create, 182
 - in image map, 592, 592
- cleaning
 - ink cartridges, 685
 - ink-jet nozzles, 741–743
- clearing Actions palette, 277
- clickable image, 585, 873. *See also*
 - image maps
- client-side image map, **587–588**, 873
 - creating, **590–597**
- clip art, 873
- clipboard, 873
 - cutting selection to, 50
- clipping group, 873
 - linked layers for, 134
- clipping path, **176–179**, 874
 - troubleshooting Postscript errors, **178**
- clone, 874
- Clone Stamp tool, 25, 25, **60–62**
- “closed-loop” color, 702
- Clouds filter, 822, 822
- CMM (color management module), 718, 874
- CMYK calibration bar, printing, 731
- CMYK color model, 874
 - converting files, **725–728**
 - Curves dialog box for, 227
 - preview in, **723–728**
 - Selective Color to adjust images, 233
 - total ink coverage values, 223
 - working space, **714–715**
- collapsing palettes, Photoshop vs. Painter vs. Illustrator, 301–302, 303
- color
 - choosing for blending, 144
 - erasing similar to selected color, **35–37**, 88
 - for guides, 113
 - keyboard shortcuts for adjusting, 758–759
 - of mask, 195
 - meaning of, 537–538
 - monitor vs. printed page, 707–709
 - out of gamut, 18
 - out-of-gamut, **724–725**
 - paths to apply, **172–173**
 - Photoshop manipulation, 282–283
 - Photoshop vs. Painter vs. Illustrator, 326, **343–345**
 - of paper, **291–295**
 - of text, **343–345**
 - safe palettes, **541**
 - selecting with Magic Wand, **56–58**
 - transitional fill, 78, **78**
 - for Web graphics, **580–582**
 - Web technology, **538–541**
 - additive color, **538–539**
 - gamma, **539–540**
 - RGB to hexadecimal, **540–541**
- color adjustment, 207
 - adjustment layers, **237–239**
 - creating, **237–238**
 - as mask, **238–239**

- balance, **231–237**
 - Color Mixer, **234–237**, 235
 - selective color, **233–234**
- curve adjustment, **225–231**
 - brightness bar, **227**
 - channels, 228
 - graph, **225–226**
 - graph tools, 228
 - input and output values, 228
 - lock-down curves, 228–229
 - position of color, 229–230
- levels, **218–224**
 - channel adjustment, 221
 - white and black points, **221–223**
- measuring tonality and color, **208–214**
 - Color Sampler tool, **213–214**
 - Eyedropper tool, **213**
 - histogram, **208–210**, 211
 - Info palette, **211–213**, 212
- quick changes, **215–217**
 - brightness/contrast, **215**
- Unsharp Mask filter, **239–242**
 - flesh tone technique, 241–242
 - lab-mode technique, 242
 - small doses, 241
- color balance, **231–237**
- Color Balance dialog box, 232, 232
- Color Burn mode for Clone Pattern Stamp tool, 66
- color channels, 190, 874
 - viewing, 193
- color correction, 764–765, 874
- color depth, 493, 874
- Color Dodge mode, for Clone Pattern Stamp tool, 66
- Color Halftone filter, 815, 815
- color key, 874
- color management, 317, **701–702**
 - when printing, 732
- color management module (CMM), 718, 874
- color management policies, 874
- color mapping, 875
- Color Mixer, for optimal grayscale image, **236–237**
- color mode, 875
 - for Clone Pattern Stamp tool, 66
- Color Overlay style, 149
- Color Picker, 539
 - opening, 27
- Color Readout in Info palette, 211–212
- Color Sampler tool, **213–214**, 214
- color separation, 875
- Color Settings dialog box (Photoshop), 713–717, 714
 - advanced settings, **717–722**
 - conversions through rendering intent, **718–722**
 - desaturating monitor colors, **720–721**
 - engine, **718**
 - color management policies, **715–716**
- color space, 875
- color theory, **532–537**
 - properties of color, **533–537**
 - color effects, **535–537**
 - color relationships, **534–535**
 - subtractive color, **532–533**
- color wheel, 875
- color working space, **702–703**
 - color gamuts, 708
 - conversion when opening image, 721, **721–722**
- RGB, **710–713**
- Colored Pencil filter, 769, 769

908 colorize—Ctrl/Command

- colorize, 875
- ColorMatch RGB color space, **711–712**
- combining paths, 169
- commands, action set for, 271
- Commission Internationale de l'Eclairage (CIE), 873
 - color working space, 712
- comp, 875
- complementary color, 533, 875
- composite channel, 191
- compression, 875
 - of GIF files, **511**
 - of JPEG files, **522–524**
- CompuServe, 489
- computer
 - requirements for Genuine Fractals, 466
 - screen size and Web design, 484
 - for Web graphics, 477
- constrain, 875
- constrain angle, Photoshop vs. Painter vs. Illustrator, **297–299**
- Contact Sheet II, 43, 43
- Conté Crayon filter, 836, 836
- contiguous limits
 - for Background Eraser tool, 85
 - for Magic Eraser tool, 88
- contiguous option, for Magic Wand tool, 57
- continuous tone, 876
- Contour Editor, 148
- Contour style, 148
- contrast, 215, 533, 876
 - automatic adjustment, 216
 - keyboard shortcuts for adjusting, 758–759
 - levels to change, 218–220
- Convert Multi-Page PDF to PSD, 44, 44
- Convert Point tool, 157
- Convert to Profile dialog box, 726
- converting
 - anchor point, 168, 169
 - background layer to layer, 127–128
 - paths, **173–175**
 - to selection, **174–175**
- convolve, 876
- cool hues, 534
- Cool3D (Ulead), 435–438, 436
- COORDS attribute of <AREA> tag (HTML), 594
- copy and paste for paths, **175–176**
- copy dot, 876
- copying
 - channels, 199
 - image to new layer, **138–139**
 - layers, **141**
 - paths, 165, 166
 - type specifications, Photoshop vs. Painter vs. Illustrator, **348–349**
- copyright, and graphics, 571
- Corel Bryce, 435
- Corel Draw, 6
- corner anchor points, 168
- Craquelure filter, 855, 855–856
- crop, 876
- Crop command, **115–116**, 116
 - for irregular shapes, 116, 117
- crop mark, 876
 - printing, 731
- Crop tool, 25, 25, **117**, 118
- cropping photographs, **114–119**
- Crosshatch filter, 792, 792
- Crystallize filter, 816, 816
- Ctrl/Command, 49

cursor for paint tools, setting preferences, 18

curve adjustment, **225–231**

curved paths, **159–162**

- attaching straight path to, **162**
- attaching to straight path, **161–162**
- changing direction, 160–161

Curves, 876

Curves dialog box, 225, 225, 227

- brightness bar, **227**
- graph, 225, 225–226
- graph tools, 228
- input and output values, 228
- lock-down curves, 228–229, 229
- position of color on, 229–230

Custom filter, 862–863, 863

custom palettes in Painter, 312, 313

Custom Shape tool, **184–187**, 185

Cutout filter, 770, 770

cutting image to new layer, **139–140**

D

Dark Strokes filter, 793, 793

darken, 876

Darken mode for Clone Pattern Stamp tool, 66

darkening areas, Burn tool for, **101–102**

data compression, 876

De-Interlace filter, 861, 861

Debabelizer Pro, 492

debugging. *See* troubleshooting

decorative margin backgrounds, **555**, 555

default, 876

Default Actions, 259

defringe, 876

Delete Anchor Point tool, 157

deleting

- actions, **267–268**
- anchor point, 168
- channels, 199
- layers, **142**
- paths from image window, 171
- selected image, 50
- snapshots of image, 252
- states in History, **252–253**

densitometer, 876

density, 877

density range, 877

depth

- illusion of, **124–125**
- painting with, 285

depth-of-focus of scanners, 412

desaturate, 877

desaturating monitor colors, **720–721**

descender, 877

Despeckle filter, 812, 812

destination document for dragging

- layer, 140

device drivers, **748**

- and printer speed, 745–746

diamond gradient, 78

Difference Clouds filter, 823, 823

Difference mode for Clone Pattern Stamp tool, 66

Diffuse filter, 846, 846

Diffuse Glow filter, 798, 798–799

diffusion, 877

digital camera

- for 3D images, 453
- panoramas from, 443–444
- tips, 450–451
- photograph enlargement, **461–467**

Digital Stock, 111

910 digitize—duplicating

- digitize, 877
- digitizing photographs, **106–111**
 - scanning, **106–109**
- dim layout in Illustrator, 314–315
- Direct Selection tool, 157, **167**
- direction handle in Bézier curves, 156
- discontiguous limits for Background Eraser tool, 85
- discordant colors, 535
- disolving text in LiveMotion, **647–650**
- Displace filter, 799, 799
- displacement map, 877
- Dissolve mode, for Clone Pattern Stamp tool, 65
- distort, 877
- distort filters, **798–810**
 - Diffuse Glow filter, 798, 798–799
 - Displace filter, 799, 799
 - Glass filter, 800, 800
 - Ocean Ripple filter, 801, 801
 - Pinch filter, 801–802, 802
 - Polar Coordinates filter, 803, 803–804
 - Ripple filter, 804, 804
 - Shear filter, 805, 805
 - Spherize filter, 418, 806, 806
 - Twirl filter, 807, 807
 - Wave filter, 808, 808–809
 - Zigzag filter, 809, 809–810
- distributed model for color production, 702
- Dither Box filter, 863
- dithering, 493, 581, 877
 - color settings for, 720
 - of GIF files, **513–514**
 - by laser printers, 686
- docking palettes, Photoshop vs. Painter vs. Illustrator, 301–302
- Document Setup dialog box (Illustrator), 296
- documents
 - dragging layer from other, **140**
 - dragging selection from other, **141**
 - saving snapshots as, 251–252
 - size in Photoshop vs. Painter vs. Illustrator, **295–297**
- Dodge tool, 25, 26, **99–100**
 - Options bar, 100
- dodging, 877
- dot, 877
- dot area, 727
- dot etching, 877
- dot gain, 877
- dot gain table, 728, 728
- dots per inch (dpi), 878
- downloading sample files, 32
- dpi (dots per inch), 878
- drag and drop for paths, 176
- dragging layer from other document, **140**
- dragging selection from other document, **141**
- drawers in Painter, 304
- drawing programs
 - copy and paste path to other, 175–176
 - for Web graphics, 478–479
- drawing tablet, 48
- drop cap, 878
- Drop Shadow style, 146
- Droplet, 878
- drum scanner, 878
- Dry Brush filter, 385, 771, 771
- dummy, 878
- Duotone, 878
- Duotone mode, 878
- duplicating. *See also* copying

Dust & Scratches filter, *813*, 813–814
 dye sublimation, 878
 dye sublimation printer, **685**
 Dynamic Text dialog box, *356*
 Dynamic Text layer (Painter),
 334–335, *335*

E

e-mail to upload photos to finishers,
 698
 ECP (Extended Capability Port), *745*
 Edit menu

- Color Settings, *713*
- Cut, *50*
- Define Custom Shape, *187*
- Fill, *70*
 - Use History, *255*
- Preferences
 - Display & Cursors ➤ Color
 Channels in Color, *193*
 - General, *16*
 - General ➤ History States,
249
 - Guides & Grid, *113*
 - Image Cache, *208*
 - Plug-Ins & Scratch Disks, *21*,
23
- Transform, *109*
 - Distort, *399*
 - Flip Vertical, *423*
 - Perspective, *424*, *425*
 - Resize, *379*
 - Scale, *426*
- Undo, **246–247**
- Undo Eraser, *83*
- Undo Magic Eraser, *37*

editing
 actions, *265–266*

channels, **196–198**
 keyboard shortcuts for, *759–760*
 paths, **165–169**
 in Photoshop and ImageReady, **546**
 Photoshop vs. Painter vs. Illustrator,
350–351

reversing, **246–247**

Effect menu ➤ Surface Control ➤

Apply Surface Texture, *286*

Electrify filter (Eye Candy), *408*, *408*

Ellipse tool, **182**

Embedded Profile Mismatch dialog
 box, **716–717**, *717*

emboss, *878*

Emboss filter, *847*, *847*

empty layer, creating, **137–138**

emulsion, *879*

emulsion side, *878–879*

encapsulated PostScript (EPS), *879*

Enhanced Parallel Port (EPP), *745*

enlarging image size, vs. decreasing,
119, *120*

“envelope” technology, to warp type,
358

EPP (Enhanced Parallel Port), *745*

EPS (encapsulated PostScript), *879*
 saving clipping path as, *179*

equalization, *879*

Eraser tool, *25*, *26*, *39–40*, *40*, **82–88**

Background Eraser tool, **33–35**

Erase to History option, *255*

Magic Eraser tool, **35–37**, **88**

Options bar, *83*

erasing

Auto Erase with Pencil tool, *77*

to background, transparency, paper
 color or white, Photoshop vs.

Painter vs. Illustrator, **294–295**

912 error messages from ink-jet printers—Filter menu

error messages from ink-jet printers,

749–751

Exclusion mode for Clone Pattern

Stamp tool, 66

exit tray, **739–740**

export, 879

exporting paths, **175–176**

Exposure control, 99

Extended Capability Port (ECP), 745

extracting image from background, 766

extrude, 879

Extrude filter, 848, 848–849

eye icon in Layers palette, 126

eyedropper, 879

Eyedropper tool, 25, 26

for color selection before erasing,

86, 87

for Info palette, 213

F

Facet filter, 817, 817

fade-out rate, 879

fading brush stroke, 68, 68

feather, 879

feather edge, 879

feathering selection, 53

Fidelity setting for Art History Brush

tool, 92

file commands, keyboard shortcuts for,

761

file formats, 879

for LiveMotion animation, 675–676

Web compatible, 9

for Web graphics, **488–491**. *See*

GIF file format; JPEG file

format

File menu

➤ Automate, 42, **42–44**

➤ Contact Sheet II, 43, 43

➤ Convert Multi-Page PDF to
PSD, 44, 44

➤ Picture Package, 43, 43

➤ Web Photo Gallery, 44, 44

➤ Color Settings ➤ RGB Setup, 11

➤ Export ➤ Paths, 176

➤ Import, for scanned images, 106

➤ Open, 33

➤ Revert, 35

➤ Save for Web, 519

file Properties dialog box, 525

file size

alpha channel and, 190

of LiveMotion animation, 673–674

File Transfer Protocol (FTP), to upload

photos to finishers, 698

files, saving, preferences for, 17

fill, 879

fill layers, 880

linked layers for, 134

fill opacity in blending, 144

Fill Path dialog box, 172, 172

filling

with color, 77

document with foreground color, 70

from History, 255

paths with color, **172**

text, Photoshop vs. Painter vs.

Illustrator, 330

filling text, Photoshop vs. Painter vs.

Illustrator, **365–367**

Film Grain filter, 772, 772–773

filter, 880

Filter menu

➤ Blur ➤ Gaussian Blur, 73

- Brush Strokes
 - Accented Edges, 384, 384
 - Angled Strokes, 383, 383
 - Distort
 - Twirl, 72
 - ZigZag, 422
 - Noise ➤ Add Noise, 387
 - Render
 - Lens Flare, 396
 - Lighting Effects, 74, 393, 395
 - Sharpen ➤ Unsharp Mask, 239, 381
- Filter menu (ImageReady), ➤ Other
- Tile Maker, 549
- filters, **377–378, 768**
- actions as, **272–277**
- artistic filters, **769–783**
- Colored Pencil filter, 769, 769
 - Cutout filter, 770, 770
 - Dry Brush filter, 385, 771, 771
 - Film Grain filter, 390, 391, 772, 772–773
 - Fresco filter, 773, 773
 - Neon Glow filter, 774, 774–775
 - Paint Daubs filter, 775, 775
 - Palette Knife filter, 776, 776
 - Plastic Wrap filter, 777, 777
 - Poster Edges filter, 778, 778
 - Rough Pastels filter, 779, 779
 - Smudge Stick filter, 780, 780
 - Sponge filter, 781, 781
 - Underpainting filter, 782, 782
 - Watercolor filter, 783, 783
- blur filters, **784–789**
- Blur filter, 784, 784
 - Blur More filter, 785, 785
 - Gaussian Blur filter, 786, 786
 - Motion Blur filter, 787, 787
 - Radial Blur filter, 788, 788
 - Smart Blur filter, 789, 789
- brush stroke filters, **381–385, 383, 790–797**
- Accented Edges filter, 384, 790, 790
 - Angled Strokes filter, 791, 791
 - Crosshatch filter, 792, 792
 - Dark Strokes filter, 793, 793
 - Ink Outlines filter, 794, 794
 - Spatter filter, 795, 795
 - Sprayed Strokes filter, 796, 796
 - Sumi-e filter, 797, 797
- distort filters, **798–810**
- Diffuse Glow filter, 390–391, 391, 392, 798, 798–799
 - Displace filter, 799, 799
 - Glass filter, 800, 800
 - Ocean Ripple filter, 801, 801
 - Pinch filter, 801–802, 802
 - Polar Coordinates filter, 803, 803–804
 - Ripple filter, 804, 804
 - Shear filter, 805, 805
 - Spherize filter, 418, 806, 806
 - Twirl filter, 807, 807
 - Wave filter, 808, 808–809
 - Zigzag filter, 809, 809–810
- examples of use
- bubbles, rain or snow, **401–405**
 - creating night from day, **385–388**
 - cubism without cubes, **378–381**
 - fixing faulty perspective, **397–400**
 - otherworld landscape, 406, 406–408

914 Find Edges filter—Find Edges filter

- romantic glow, **389–392**
- special effects with lighting, **392–396**
- noise filters, **810–814**
 - Add Noise filter, 810–811, *811*
 - Despeckle filter, 812, *812*
 - Dust & Scratches filter, *813*, 813–814
 - Median filter, 814, *814*
- other filters, **862–867**
 - Custom filter, 862–863, *863*
 - Dither Box filter, 863
 - High Pass filter, *864*, 864–865
 - Maximum filter, 865
 - Minimum filter, 865
 - Offset filter, 866–867, *867*
- pixelate filters, **815–821**
 - Color Halftone filter, 815, *815*
 - Crystallize filter, 816, *816*
 - Facet filter, 817, *817*
 - Fragment filter, 818, *818*
 - Mezzotint filter, 819, *819*
 - Mosaic filter, 820, *820*
 - Pointillize filter, 821, *821*
- render filters, **822–826**
 - Clouds filter, 822, *822*
 - Difference Clouds filter, 823, *823*
 - Lens Flare filter, 396, 823–824, *824*
 - Lighting Effects filter, 825, *825*
 - Texture Fill filter, 826, *826*
- sharpen filters, **826–831**
 - Sharpen Edges filter, 828–829, *829*
 - Sharpen/Sharpen More filter, 827, *827*, *828*
 - Unsharp Mask filter, 830–831, *831*
- sketch filters, **832–845**
 - Bas Relief filter, 832, *832*
 - Chalk & Charcoal filter, 833, *833*
 - Charcoal filter, 834, *834*
 - Chrome filter, 835, *835*
 - Conté Crayon filter, 836, *836*
 - Graphic Pen filter, 837, *837*
 - Halftone Screen filter, 838, *838*
 - Note Paper filter, 839, *839*
 - Photocopy filter, 840, *840*
 - Plaster filter, 841, *841*
 - Reticulation filter, 842, *842*
 - Stamp filter, 843, *843*
 - Torn Edges filter, 844, *844*
 - Water Paper filter, 845, *845*
- stylize filters, **846–854**
 - Diffuse filter, 846, *846*
 - Emboss filter, 847, *847*
 - Extrude filter, *848*, 848–849
 - Find Edges filter, 385–386, *386*, 849, *849*
 - Glowing Edges filter, 850, *850*
 - Solarize filter, 851, *851*
 - Tiles filter, 852, *852*
 - Trace Contour filter, 853, *853*
 - Wind filter, 854, *854*
- texture filters, 855–860
 - Craquelure filter, 855, 855–856
 - Grain filter, 856, 856–857
 - Mosaic Tiles filter, 857, *857*
 - Patchwork filter, 858, *858*
 - Stained Glass filter, 859, *859*
 - Texturizer filter, 860, *860*
- video filters, **861–862**
 - De-Interlace filter, 861, *861*
 - NTSC colors filter, 862
- Find Edges filter, 385–386, *386*, 849, *849*

- Find Edges option for Background Eraser tool, 85
 - Fit in Window (Painter), 299
 - flat, 880
 - flatbed scanners, 106, 880
 - flatness of clipping path, 178
 - flattening image, 153
 - flesh tone technique for Unsharp Mask filter, 241–242
 - floating selection, 880
 - floppy disks to send photos to finishers, 699
 - fonts, 880
 - Photoshop vs. Painter vs. Illustrator, 325, **339–341**
 - For Position Only (FPO), 880
 - Foreground/Background Color control, 27, 27
 - foreground color
 - filling document with, 70
 - in gradient, 78
 - for shape, 182
 - FotoLook, 106, *107*, *108*
 - four-color printing, 880
 - spot color channels for, 201
 - FPO (For Position Only), 880
 - fractal, 880
 - Fragment filter, 818, *818*
 - frames, action set for, 271, 272–274, 273
 - frames in animated GIF, commands in ImageReady, 614
 - free-form shapes, selecting, **48–51**
 - Freeform Pen tool, 157, **162–163**, *163*
 - with Magnetic option, 157, **163–165**
 - frequency, 880
 - Fresco filter, *773*, *773*
 - frisket, 880
 - FTP (File Transfer Protocol), to upload photos to finishers, 698
 - full background design for Web pages, **556–557**, *557*
 - full-color image, 880–881
 - Full Screen Mode control, 27
 - Full Screen Mode with Menu Bar control, 27
 - function keys, preferences, 318–319
 - functional margin backgrounds, **555–556**, *556*
- ## G
- gallery, 881
 - gamma, **539–540**, **709–710**, 881
 - gamma correction, 881
 - Gamma Measurement Image, *540*
 - Gamma software (Adobe), 10–11, 705, 868
 - gamut, 208, *707*, *708*, 881
 - out-of-gamut color display, **724–725**
 - Photoshop vs. Painter vs. Illustrator, preferences, 319–320
 - gang scan, 881
 - Gaussian Blur, 881
 - Gaussian Blur dialog box, *73–74*, *74*
 - Gaussian Blur filter, *786*, *786*
 - Genuine Fractals, **461–467**, *465*
 - opening and resizing file, 464–467
 - GIF file format, 9, **488–489**, *490*, *492*, **492–493**, **511–521**
 - animated, 495, 869
 - compression, **511**
 - dithering, **513–514**
 - halos, **521**, *522*
 - indexed color mode, **512–513**

916 GIF87a format — HEIGHT attribute of tag (HTML)

- interlacing, **514–517**, 515
 - transparency, **517–520**, 518
 - working with, **492–493**
 - GIF87a format, 881
 - GIF89a file format, 881
 - GIGO (garbage in, garbage out), 480
 - Glass filter, 800, *800*
 - glossy photo paper, **684**
 - Glowing Edges filter, 850, *850*
 - grabber wheels, 738
 - gradient, 882
 - gradient fill, 882
 - Gradient Overlay style, 149
 - Gradient tool, 25, 26, **78**, 78, 417
 - Grain filter, *856*, 856–857
 - Graphic Pen filter, 837, *837*
 - graphic skills evaluation, **475–477**
 - of graphic designer, **475–476**
 - of novice, **476–477**
 - graphics
 - copying to new layer, **138–139**
 - cutting to new layer, **139–140**
 - past and present, **4**
 - vector art, **5–10**
 - working in Photoshop and ImageReady, **546**
 - wrapping around 3D object, 429, **429–434**
 - graphics tablet, 48, 882
 - for Painter, 285
 - gray component removal, 882
 - gray map, 882
 - grayscale calibration bar, printing, 731
 - grayscale image, 882
 - making optimal, **236–237**
 - Grayscale mode, 882
 - grayscale profiles, **726–727**
 - grid, 882
 - for photograph positioning, **113**, *114*
 - Photoshop vs. Painter vs. Illustrator, **315**
 - raster graphics and, 9
 - grouping
 - adjustment layer with next layer, 238
 - layers in layer sets, **134–136**
 - palettes, **30–31**
 - Photoshop vs. Painter vs. Illustrator, 301–302
 - guides, 882
 - for photograph positioning, 112–113, *113*
 - gutter, 882
- ## H
- halftone, 883
 - halftone screen, 883
 - Halftone Screen filter, 838, *838*
 - halo
 - in GIF files, **521**, *522*
 - of light, 147
 - Hand tool, 25, 26
 - handles, 883
 - hard disk drive, using as memory, **23–24**
 - Hard Light mode, for Clone Pattern Stamp tool, 66
 - hardware
 - requirements for Genuine Fractals, 466
 - for Web graphics, 477
 - harmonious colors, 535
 - headers on Web pages, **557–558**
 - graphics for, 496, *496*
 - HEIGHT attribute of tag (HTML), 570, 575–576

hexadecimal color, 581–582
 RGB conversion to, **540–541**

high key image, 210

High Pass filter, 864, 864–865

highlight, 883

highlight point, finding, 221–222

histogram, 208–210, 211, 883

History Brush tool, 25, 25, **88–92**,
253–254

History Options dialog box, 250, 250

History palette, 89, **247–250**, 248,
 319, 883
 benefits, 245
 increasing states, 249
 as Photoshop advantage, 283

holes, 3D effects, **415–416**, 416

horizontal and vertical scale,
 Photoshop vs. Painter vs.
 Illustrator, **345**

hotspot, 883

HREF attribute of <AREA> tag
 (HTML), 594

HSB color model, 883

HTML (Hypertext Markup Language),
 883
 <BODY> tag attributes for
 background, 605
 image map tags and attributes,
 593–594
 image tags and attributes, 570
 from ImageReady, 563, 563

hue, 533–534, 884

Hue mode for Clone Pattern Stamp
 tool, 66

Hue/Saturation dialog box, 238

hyperlinks, Web graphics as,
582–585, 584

hyphenation, Photoshop vs. Painter vs.
 Illustrator, 328, **354**

I

ICC (International Color Consortium),
 703, 885

illusion of depth, **124–125**

Illustrator, 6
 anti-alias, 346
 application-specific commands, **355**
 baseline shift, **346**
 color, **343–345**
 copying type specifications,
348–349
 differences from Photoshop and
 Painter, **287–321**
 background or paper color,
291–295
 palettes, **300–312**
 screen, **295–300**
 text, **332–338**
 in tools, **288–291**

dim layout in, 314–315

drag and drop path to, 176

editing, **350–351**

filling text, **365–367**

horizontal and vertical scale, 345

hyphenation and justification, **354**

Navigator palette, 309

outlining text, **369–370**

paragraph specifications, 352–355

preferences, **318–321**

preview bounds in, 321

reasons to use, 286

rendering text, **368–370**

smart guides, 320

text
 fonts, 340
 kerning, 342–343
 leading, 342
 size, 341

918 image caching—Info Options dialog box

- transferring to Photoshop or
 - Painter, 331, **371–372**
 - vertical text, 337
 - text effects, **362–368**
 - type on path, **356–361**, 357
 - type styles, 347
 - white artboard, 292
- image caching, 884
- image effects, action set for, 271
- Image Effects actions, **274–276**, 275
- image file, opening, 33
- image link, 884
- image maps, **585–601**, 586, 884
 - activating, **596–597**
 - client-side, **587–588**, 873
 - creating, **590–597**
 - guidelines for, **588–589**
 - in ImageReady, **601–602**
 - selecting image for, **589–590**
 - server-side, **587**, 896
 - creating, **597–601**
 - tags and attributes, 593–594
- Image menu
 - Adjust
 - Auto Contrast, 216
 - Auto Levels, 216
 - Brightness/Contrast, 215
 - Color Balance, 232
 - Invert, 423
 - Levels, 218
 - Selective Color, 233
 - Variations, 216–217
 - Adjust Curves, 225
 - Canvas Size, 114
 - Crop, 115
 - Histogram, 208, 209
 - Mode
 - Convert To Profile, 725
 - Multichannel, 200
 - Indexed Color, 512
- image-modification tools, **81–102**
 - Art History Brush tool, **92–94**
 - Blur tool, **94–96**
 - Burn tool, **101–102**
 - Dodge tool, **99–100**
 - Eraser tool, **82–88**
 - History Brush tool, **88–92**
 - Sharpen tool, **96–97**
 - Smudge tool, **97–99**
- image pixels, locking, 137
- image size, 884
- Image Size dialog box, 119, 119
- ImageReady, **544–546**, 884
 - for animated GIF production, **613–626**
 - tweening, **617–619**
 - image maps in, **601–602**
 - interface, 544, 545
 - launching, **545**
 - opening, 27
 - seamless tiles in, **549–550**
 - slicing artwork, **560–563**
- images. *See* graphics
- tag (HTML), 570, 571–573
- importing
 - 3D graphics, **435–439**
 - actions, **271–272**
 - paths, **175–176**
- Impressionist effects, 254
- indexed color image, 492, 884
- Indexed color mode, 884
 - for GIF files, **512–513**
- Info bar, 313–314
 - in Painter, 314
- Info Options dialog box, 212, 212–213

- Info palette, **211–213**, 884
 Photoshop vs. Painter vs. Illustrator,
 308
- ink cartridges
 cleaning, 685
 in printer, **738–739**
 notice of low, 749–750
 refilling, **752**
 status of, 741
- ink-jet printers, **684–685**, 884
 how it works, **740**
 parts, **736–740**
 case, **736–737**
 exit tray, **739–740**
 ink cartridges, **738–739**
 paper-feed mechanism,
737–738
 printer cartridge carrier, **739**
 preventive maintenance, **751–752**
 printing from, **728–729**
 troubleshooting, **740–749**
 absence of print, **741–743**
 common error messages,
749–751
 dead printer, **744–745**
 garbled output, **748**
 paper jams, **749**
 poor quality, **746–748**
 slow or intermittent printing,
745–746
 summary, **753**
 wrong color, **743–744**
- Ink Outlines filter, 794, 794
 “ink painting”, 797
- Inner Glow style, 147
 Inner Shadow style, 146–147
 intensity, 534
- interframe delay time, for animation,
 616
- interlacing, 884
 GIF files, 494, **514–517**, 515
- intermediate color, 532
- International Color Consortium (ICC),
 703, 885
- International Organization for
 Standardization (ISO), 706
- Internet connections, bandwidth, 471
- interpolation, 885
- interrupted print job, and garbled
 output, **748**
- intersect with selection, 53, 55
- inverse, 885
- invert, 885
- inverting selection, 39, 51
- iridescence, 535–536
- ISO (International Organization for
 Standardization), 706
- ## J
- jaggies, 6, 885
- Joint Photographic Experts Group, 490
- JPEG file format, 9, **490–491**, 491,
 492, **493**, **522–527**, 885
 compression, **522–524**
 creating, **526**
 Photoshop JPEG encoder, **524–526**
 progressive, 495, **527**
 working with, **493**
- JPEG Options dialog box, 524,
 524–525, 526
- Jump to ImageReady control, 27
- justification, Photoshop vs. Painter vs.
 Illustrator, 328, **354**
 justified, 885

920 Kai's Power Tools — Layer Style dialog box

K

Kai's Power Tools, *406*, 406–408, 479

kern, 885

kerning, Photoshop vs. Painter vs. Illustrator, 326, **342–343**

key combinations, zooming in with Ctrl/Command+plus, 49

keyboard shortcuts, **756–763**

- for action, 261
- for blending modes, 757–758
- for color/contrast adjustment, 758–759
- for editing, 759–760
- for file commands, 761
- for layers and channels, 762
- for liquify, 758
- for palettes, 761
- Photoshop vs. Painter vs. Illustrator, **289–290**
- for selections, 759
- for tools, 756–757
- for type, 760
- for views, 762–763

knockout, 885

- in blending, 144

Kodak PhotoCD service, 111

L

Lab color mode, 885

lab-mode technique for Unsharp Mask filter, 242

labels, 885

- when printing, 731

landscape, 886

- otherworld, *406*, 406–408

landscape printing, 689

laser printer, **686**

- memory, 750

lasso, 886

Lasso tool, 24, 25, **48–55**

- Magnetic Lasso tool, 38, **38–40**
- Options bar, 53, **53–55**
- Polygonal Lasso tool, **51–52**, 52
- selecting free-form shapes, **48–51**

layer mask, 886

- linked layers for, 134
- saving selection as, 193

Layer menu

- Add Layer Mask
- Reveal All, 387
- Arrange, 132–133
- Duplicate Layer, 141
- Flatten Image
- Discard Hidden Layers, 152
- Layer Style, 145
- Inner Shadow, 415, 416
- New
- Background From Layer, 128
- Layer, 137
- Layer From Background, 127
- Layer Set, 135
- Layer Set From Linked, 136
- Layer Via Copy, 138, 139
- Layer Via Cut, 139, 140
- New Adjustment Layer, 237
- Hue/Saturation, 238
- Rasterize
- Type, 151
- Type
- Convert To, 333
- Vertical, 336

Layer Properties dialog box, 129

layer sets, **134–136**, 135, 886

- linked layers for, 134

Layer Style dialog box, 145–150, 146

- Bevel and Emboss style, 420
- Outer Glow style, 425

- layer styles, *147*, 886
 - types, 145–150
- layers, **123–153**, *125*, 886
 - for animation
 - converting to frames, 615
 - creating, 611–612
 - blending, *142*, **142–144**
 - consolidating, **151–153**
 - flattening image, 153
 - merge down operation, 153
 - merging linked layers, 152–153
 - merging visible layers, 152
 - creating, **137–142**
 - empty layer, **137–138**
 - layer with content, **138–141**
 - duplicating, **141**
 - grouping in layer sets, **134–136**, **427–428**
 - illusion of depth, **124–125**
 - keyboard shortcuts for, 762
 - linking, **133–134**
 - locking, **136–137**
 - Magic Wand tool and, 57
 - naming, 128, **129**
 - order of, *132*, **132–133**
 - Paint Bucket tool and, 77
 - painting with History Brush tool, **88–92**
 - removing, **142**
 - styles, **144–151**
 - applying, 150
 - saving, 150
 - thumbnail size for, 129, *129*
 - transparency and opacity, **130–131**
 - controlling opacity, 131
 - for type, **150–151**
 - viewing and targeting, **129–130**, *130*
- Layers palette, 29, *126*, **126–137**, 886
 - background layer, **127–128**
 - locking controls, *136*, 136–137
 - New Layer icon, 138
 - pull-down menu, *127*
- leading, 886
 - Photoshop vs. Painter vs. Illustrator, *326*, **341–342**
- Lempel-Ziv Welch (LZW) compression, *511*, *512*, 887
- lens flare, 886
- Lens Flare filter, 823–824, *824*
- Levels, **218–224**, 886
- levels, saving and loading settings, **224**
- Life*, 4
- ligature, 886
- light effects, History Brush tool to
 - create, 89–91
- light-falloff, 414
- lighten, 887
- Lighten mode for Clone Pattern Stamp
 - tool, 66
- lightened shadows, Dodge tool for, **99–100**
- Lighting Effects dialog box, *74–75*, *75*, *393*, *394*
 - to add spotlight, **396**
 - to add texture, **395**
- Lighting Effects filter, **392–396**, 825, *825*
- line art, 887
- line screen, 887
- line segment, in Bézier curves, *156*
- Line tool, **183–184**
 - and vector graphics, 6
- linear gradient, 78, 887
- lines, creating, **180–187**

922 lines per inch (lpi) – merging

- lines per inch (lpi), 887
 - linked layers, **133–134**
 - merging, **152–153**
 - Liquify, 887
 - keyboard shortcuts for, 758
 - lithography, 887
 - LiveMotion. *See* Adobe LiveMotion
 - loading selection, **195–196**
 - lock-down curves, 228–229, 229
 - locking
 - layers, **136–137**
 - with Layers palette, 126
 - looping, animation options in Image Ready, 613
 - lorgnettes, **455–456**
 - lossless compression, 489, 511, 887
 - lossy compression, 490, 885, 887
 - in JPEG file, 522, 493
 - low key image, 210, 210, 212
 - LOWSRC attribute of tag (HTML), 576
 - lpi (lines per inch), 887
 - luminance, 887
 - luminosity, 536
 - Luminosity mode for Clone Pattern Stamp tool, 66
 - luster, 535
 - LZW (Lempel-Ziv Welch) compression, 511, 512, 887
- M**
- Macintosh
 - key combinations for, 49
 - memory allocation to Photoshop, 20
 - Macromedia Freehand, 6
 - macros. *See* actions
 - Magic Eraser tool, **35–37, 88**
 - Magic Wand tool, 24, 25, **56–58, 887**
 - Magnetic Lasso tool, **38–40**
 - Magnetic Pen tool, 157, **163–165**
 - Make Selection dialog, 174
 - map file, 887
 - <MAP> tag (HTML), 593, 594
 - mapping, 888
 - marching ants, from Lasso tool, 49
 - margin backgrounds, **499–503**, 500–501, 551, **551–556**
 - decorative, **555, 555**
 - functional margins, **555–556, 556**
 - size recommendations, 552
 - Marquee tool, 888
 - mask icon in Layers palette, 126
 - masks, 283, 888
 - adjustment layer as, **238–239**
 - mattes, assigning active, **671–673**
 - matting, 888
 - Maximum filter, 865
 - mean value in histogram, 209
 - Measure tool, 112
 - measurement units, setting
 - preferences, 19
 - mechanical, 888
 - Median filter, 814, 814
 - megapixel camera, 694
 - memory
 - allocation to Photoshop, 20
 - for History states, 249
 - Photoshop requirements, 764
 - for printers, 750
 - using hard disk as, **23–24**
 - menu of palette options, 31, **31–32, 32**
 - merge down operation for layers, 153
 - merging
 - channels, 200
 - linked layers, 152–153
 - visible layers, 152

mezzotint, 888
 Mezzotint filter, 819, *819*
 MGI, Web site, 444
 midtones, 888
 changing, 99
 Minimum filter, 865
 Missing Profile dialog box, *721*,
 721–722
 mixing channels, 201
 modal controls, 266
 moiré, 888
 monitor
 calibrating, **10–12**
 and color, **703–707**
 cross-section of cathode-ray tube,
 704
 quality, **704–705**
 viewing environment, **706–707**
 monitor profile, **705**, 888
 opening image with missing,
 721–722
 system knowledge of, **706–707**
 monitor resolution, 888
 monitor RGB profile, 712
 monochrome, 888
 monospaced type, 888
 montages, 88, 888
 Mosaic filter, 820, *820*
 Mosaic Tiles filter, 857, *857*
 Motion Blur filter, 787, *787*
 motion path for LiveMotion
 animation, **643–646**, *644*
 Move tool, 24, *25*
 Mover in Painter, 310
 multichannel, 200–201
 Multichannel mode, 889
 multiple colors, from Painter brush, 285
 Multiple mode for Clone Pattern
 Stamp tool, 65

N

names for layers, 128, **129**
 National Center for Supercomputing
 Applications (NCSA)
 server-side image map format, 597
 activating map, **599–600**
 creating map, **598–599**
 National Television Standard Code
 (NTSC), 889
 color working space, 712
 navigating Web pages, alternatives to
 image map, 590
 Navigator palette, 889
 in Illustrator, *309*
 in Photoshop, *310*
 Photoshop vs. Painter vs. Illustrator,
 309
 NCSA (National Center for
 Supercomputing Applications)
 server-side image map format, 597
 activating map, **599–600**
 creating map, **598–599**
 negative, 889
 printing, 732
 Neon Glow filter, 774, 774–775
 neon look, 147
 neutral color, 889
 New Action dialog box, 260, *261*
 New Layer dialog box, 128, *128*, 138,
 237
 New Layer Set dialog box, *136*
 New Set dialog box, 259, *259*
 New Snapshot dialog box, 89, *89*
 NOHREF attribute of <AREA> tag
 (HTML), 594
 noise, 889
 noise filters, **810–814**
 Add Noise filter, 810–811, *811*

924 non-linear histoy—Painter

Despeckle filter, 812, *812*
 Dust & Scratches filter, *813*,
 813–814
 Median filter, 814, *814*
 non-linear histoy, 250, **253**
 Note Paper filter, 839, *839*
 Notes tool, 25, 26, **40–42**
 Audio Annotation tool, 41–42
 NTSC (National Television Standard
 Code), 889
 color working space, 712
 NTSC colors filter, 862

O

object graphics, 889
 object-oriented software, 6
 benefits, 7
 Ocean Ripple filter, 801, *801*
 Offset filter, 866–867, *867*
 Oil Pastel action, 276, *276*
 one-point perspective, 124
 opacity, 889. *See also* transparency
 alpha channel for, 190
 controlling, 131
 of Eraser tool, 84
 for Magic Eraser tool, 88
 of stamp tools, 66
 in text animation, 648–649
 opalescence, 536
 Open dialog box, 33, *33*
 optimization, 889
 of LiveMotion animation, **673–676**
 of Web graphics, 478, 488,
 491–493
 Optimize palette, 889
 Options bar, 890
 moving, 26
 in Photoshop, **288–289**

order of layers, *132*, **132–133**
 organic design, 482
 otherworld landscape, *406*, 406–408
 out-of-gamut color display, **724–725**
 Outer Glow style, 147
 Outline mode (Illustrator), 299–300
 outlining text, Photoshop vs. Painter
 vs. Illustrator, 331, **369–370**
 output preview, Photoshop vs. Painter
 vs. Illustrator, **315**, *316*, 317
 Overlay mode for Clone Pattern Stamp
 tool, 65
 overprint colors, 890

P

Page Rotate tool (Painter), 297, *298*
 Page Setup dialog box, 729
 Paint Bucket tool, **77**
 Paint Daubs filter, 775, *775*
 Paint Shop Pro, 478–479
 Paintbrush tool, 25, *25*, **67–75**
 for background image, **70–75**
 Brush Dynamics settings, 67–69
 opacity, 68–69
 Options bar, 67
 Painter
 anti-alias, 346
 application-specific commands, **355**
 baseline shift, **346**
 border icons in, **313–317**
 color, **343–345**
 copying type specifications, 348
 custom palettes in, 312, *313*
 differences from Photoshop and
 Illustrator, **287–321**
 background or paper color,
 291–295
 palettes, **300–312**

- screen, **295–300**
- text, **332–338**
- in tools, **288–291**
- editing, 350
- filling text, **365–367**
- grid in, **315**
- horizontal and vertical scale, **345**
- hyphenation and justification, **354**
- Mover in, 310
- outlining text, **369–370**
- paragraph specifications, 352
- vs. PhotoShop, 283
- reasons to use, 284–285
- rendering text, **368–370**
- text
 - fonts, **339–340**
 - kerning, 342–343
 - leading, 341
 - size, 340
 - transferring to Photoshop or Illustrator, 331, **371**
 - vertical text, 338
- text effects, **362–368**
- tracing paper in, 314–315
- type on path, **356–361**
- type styles, 348
- painting
 - layers with History Brush tool, **88–92**
 - with snapshot, **254–255**
- PAL (Phase Alternation Line) system, 890
- PAL/SECAM, 712
- palette bay, 305
- Palette Knife brush, 294
- Palette Knife filter, 776, 776
- Palette Well, 30, 31, 303–304, 890
- palettes, **28–32**, 890
 - accessing and arranging, **28–29**
 - for GIF files, 492–493
 - grouping, **30–31**
 - keyboard shortcuts for, 761
 - options, 31, **31–32**
 - in Painter, opening and closing sections, 306
 - Photoshop vs. Painter vs. Illustrator, **300–312**
 - hiding and displaying, 307
 - saving layouts, 307–308
- panoramas, **442–452**
 - cool ideas, **451–452**
 - creating with PhotoDeluxe, **443–444**
 - creating with PhotoVista, **444–448**
 - low-tech, **449–450**
 - saving, 446–447
 - software comparison, **448–449**, 449
 - tips, **450–451**
- PANTONE, 890
- PANTONE Matching System, 890
- paper color
 - erasing to, 294–295
 - Photoshop vs. Painter vs. Illustrator, **291–295**
- paper-feed mechanism, **737–738**
- paper for prints, **686–688**
 - glossy photo paper, **684**
 - for ink-jet printers, 747
 - special -purpose, 688
- paper grain in Painter, 285
- paper jams, **749**, 750
- paper white, 724
- Paragraph palette, 29, 890

926 paragraphs — PhotoDeluxe

- paragraphs, Photoshop vs. Painter vs.
 - Illustrator, 328–329, **352–355**
- parallax, 452
- partial mask, 203
- Particle dialog box, 402
- Particle filter (Ulead), **401–405**
- Patchwork filter, 858, 858
- path, 890
- Path Component Selection tool, 25, 26, 157, **165–167**
- path tools, 156, **156–157**
- Pathfinder palette in Illustrator, 286–287
- paths, **157–165**
 - alignment features, 165–167, 166
 - to apply color, **172–173**
 - clipping, **176–179**
 - closing, **162**
 - combining, 169
 - converting, **173–175**
 - to selection, **174–175**
 - curved, **159–162**
 - attaching straight path to, **162**
 - deleting, 171
 - displaying, 171
 - editing, **165–169**
 - importing and exporting, **175–176**
 - Pen tool for, **157–158**
 - reshaping, 167, 168
 - saving, 170–171
 - straight, **158–159**
 - attaching curved path to, **161–162**
 - for type, Photoshop vs. Painter vs. Illustrator, 329, **356–361**
 - changing shape, 359
 - flipping type across, 361
 - moving type on, 359–360
- Paths palette, **169–172**, 170, 890
 - deleting path from, 171–172
- Pattern Overlay style, 149
- Pattern Stamp tool, **62–64**
- PDF (Portable Document Files), 8
 - converting to PSD file, 44, 44
- Pen Selection tool for LiveMotion vector objects, **634–635**
- Pen tool, 25, 26, 156, 157
 - in Illustrator, 286
 - for LiveMotion vector objects, **630–634**
- Options bar, 158, 158
 - for paths, **157–162**
 - curved path attached to straight path, **161–162**
 - curved paths, **159–162**
 - straight path attached to curved path, **162**
 - straight paths, **158–159**
 - and vector graphics, 6
- Pencil tool, **76–77**
- percentile value in histogram, 210
- Perceptual rendering intent, **719**
- perspective, 890
 - filter to fix faulty, **397–400**
- perspective distortion, 397
- Phase Alternation Line (PAL) system, 890
- Philips screw head, 419–420
- Photo CD, 891
- Photo Corners action, 273, 273
- photo effects, **272–274**
- Photo Impact (Ulead), 492
- Photocopy filter, 840, 840
- PhotoDeluxe
 - panoramas from, **443–444**

- printing many copies, *690*,
690–691
- printing single copy in, **688–689**
- Photodisc, *111*
- photographer's tools
 - Blur tool, **94–96**
 - Burn tool, **101–102**
 - Dodge tool, **99–100**
 - Sharpen tool, **96–97**
 - Smudge tool, **97–99**
- Photographic Edges, *479*
- photographs
 - adding space to, *115*
 - cropping, **114–119**
 - from digital cameras, **109–111**, *110*
 - digitizing, **106–111**
 - by scanning, **106–109**
 - panoramas, **442–452**
 - positioning, **111–113**
 - with grid, **113**, *114*
 - with guides, *112–113*, *113*
 - with rulers, **111–112**, *112*
 - predigitized, **111**
 - scaling, **119**, *120*
 - as Web graphics, **505**, *506*
- Photoshop
 - color settings, **713–717**
 - to create animation layers, *611–612*
 - differences from Painter and
Illustrator, **287–321**
 - background or paper color,
291–295
 - palettes, **300–312**
 - screen, **295–300**
 - text, **332–338**
 - in tools, **288–291**
 - going to Web site, **27–28**
 - preferences, **318–321**
 - questions frequently asked,
763–767
 - actions, *765*
 - adding or subtracting from
selection, *763–764*
 - animations, *766*
 - black-and-white conversion to
color, *767*
 - color correction, *764–765*
 - extracting image from
background, *766*
 - memory requirements, *764*
 - resolution for scanning, *767*
 - soft-proof options, *317*, *317*
 - strengths, *282–283*
 - text
 - fonts, *340*
 - kerning, *342–343*
 - leading, *341*
 - size, *340*
 - transferring to Painter or
Illustrator, *331*, **370–371**
 - for Web graphics, **477–478**
- Photoshop JPEG encoder, **524–526**
- Photoshop setup, **16–24**
 - plug-in additions, **21–22**
 - preferences, **16–21**
- PhotoVista
 - advantages, *448–449*
 - panoramas from, **444–448**
- PICT file format, *109*
- Picture Package, *43*, *43*
- piezo printing, *740*
- Pinch filter, *801–802*, *802*
- pixel, *891*
 - histogram display of total number,
210
- pixelate filters, **815–821**
 - Color Halftone filter, *815*, *815*

928 pixelated lines—printer cartridge carrier

- Crystallize filter, 816, 816
- Facet filter, 817, 817
- Fragment filter, 818, 818
- Mezzotint filter, 819, 819
- Mosaic filter, 820, 820
- Pointillize filter, 821, 821
- pixelated lines, 6
- pixels, 9
- pixels per inch (ppi), 891
- Planar Tiling filter, 406
- Plaster filter, 841, 841
- Plastic Wrap filter, 777, 777
- plate, 891
- plug-ins, 891
 - adding, **21–22**
 - technology in Web browsers, 510
 - to upload photos to finishers, 698
- plugging, 891
- PNG-8 file format, 891
- PNG-24 file format, 891
- PNG file format, 510, **528**
- point, 891
- Pointillize filter, 821, 821
- Polar Coordinates filter, 803, 803–804
- Polygon tool, **183**
- Polygonal Lasso tool, **51–52**, 52
- polygons in image map, 593
- Portable Document Files (PDF), 8
- Portable Network Graphics, **528**, 891
- portrait, 891
- portrait printing, 689
- position stat, 891
- positioning, locking, 137
- Poster Edges filter, 778, 778
- posterization, 891
- Postscript, 892
 - code for illustration, 6, 7
 - troubleshooting clipping path errors, **178**
- Postscript printer, Raster Image Processor in, 7
- ppi (pixels per inch), 891
- preferences, 892
 - Photoshop vs. Painter vs. Illustrator, **318–321**
- Preferences dialog box
 - Display & Cursors options, 18, 18
 - General options, 16–17, 17
 - Guides & Grid options, 19, 19
 - Image Cache options, 20, 20
 - Plug-In & Scratch Disks options, 21, 22, 23
 - Saving Files options, 17, 17
 - Transparency & Gamut options, 18, 18
 - Units & Rulers options, 19, 19
 - Windows Memory & Image Cache, 20, 21
- prepress, 892
- Preset Manager, 311, 892
- presets, Photoshop vs. Painter vs. Illustrator, 305
- pressure sensitivity of Painter brushes, 285
- preventive maintenance for ink-jet printers, **751–752**
- preview
 - in CMYK color model, **723–728**
 - of scanning, 106, 107
- preview bounds, in Illustrator, 321
- primary colors, 532
- Print dialog box (PhotoDeluxe), 689
- Print dialog box (Photoshop), 732, 733
- Print Multiple dialog box (PhotoDeluxe), 690
- Print Options dialog box, **729–732**, 730, 731
- printer cartridge carrier, **739**

printer resolution, 892

printers, **684–686**

- dye sublimation, **685**
- ink-jet, **684–685**. *See also* ink-jet printers
 - laser, **686**

printing, **688–693**

- checklist for, **732–733**
- dialog boxes, **729–732**
- from ink-jet printers, **728–729**
- single copy in PhotoDeluxe, **688–689**

prints from digital photos, 683

- cutting photos apart, **692–693**
- paper, **686–688**
- from photo finishers, **693–699**
 - aspect ratio, **695–697**
 - choosing finisher, **693–694**
 - resolution, **694–695**
 - upload solutions, **697–699**
- standard sizes, **691–692**

process camera, 892

process color, 892

production, action set for, 272

programs to upload photos to finishers, 698

progressive JPEG file format, 495, **527**, 892

progressive rendering, 494

proof, 892

Proof Colors, 723, 892

PSD file, converting to PDF to, 44, 44

psychological impact of color, 537–538

Q

quadtone, 892

quality

- of printing, **746–748**
- in Web graphics, **481**

quantization, 892

query of Web server, 472

Quick Mask Mode, 893

Quick Mask Mode control, 27, **201–204**

- Options window, 203, **203–204**

quilt, 442

R

Radial Blur filter, 788, 788

radial gradient, 78, 893

Radius PressView monitor, 711

rain, adding to picture, 402, 402–403

RAM (random access memory), 893

- allocation to Photoshop, 20

raster-based software, 893

raster graphics, **9–10**, 893

- vector graphics vs., 7

Raster Image Processor (RIP), 7, 178, 893, 895

rasterize, 893

rasterized text, 151

- Photoshop vs. Painter vs. Illustrator, 330–331

ray tracing, 893

readability, Web background and, 550

recorded message to explain actions, **267**

rectangle in image map, 592

Rectangle tool, 25, 26, **182**

Rectangular Marquee tool, 24, 25

red eye, 893

reducing image size, vs. increasing, 119, 120

reflected gradient, 78

reflection copy, 893

register, 894

registration mark, 894

- printing, 731

930 Relative Colormetric rendering intent – saving

Relative Colormetric rendering intent,
719

remote reference, 571

removing. *See* deleting

render filters, **822–826**

Clouds filter, 822, 822

Difference Clouds filter, 823, 823

Lens Flare filter, 823–824, 824

Lighting Effects filter, 825, 825

Texture Fill filter, 826, 826

rendering intents, **718–720**, 894

rendering, progressive, 494

rendering text, Photoshop vs. Painter
vs. Illustrator, 330–331, **368–370**

resample, 894

Resample Image feature, 119

resolution, 894

for photo finishers' prints,

694–695

for scanning, 483, 767

resolution-independent image, 894

Reticulation filter, 842, 842

retouch, 894

reversing editing, **246–247**

reverting to original image, 35

RGB color mode, **538–539**, 581–582,
894

conversion to hexadecimal color,

540–541

converting to Indexed Color mode,

512–513

RGB color working space, **710–713**

for editing images, **11–12**

RGB image, 894

RGB Setup dialog box, 11, 11

right-reading image, 895

RIP (Raster Image Processor), 7, 178,
893, 895

Ripple filter, 804, 804

rollover, 895

rotating pages, Photoshop vs. Painter
vs. Illustrator, **297–299**

rotating text in LiveMotion, **650–656**

Rough Pastels filter, 779, 779

rubber stamp, 895

S

safe palettes, **541**

sample files, downloading, 32

Satin style, 149

saturation, 534, 895

in variations, 217

Saturation mode for Clone Pattern

Stamp tool, 66

Saturation rendering intent, **719**

Save As dialog box, for interlacing GIF,
516, 516

Save For Web dialog box, 519

2-Up tab, 519

4-Up tab, 519, 520

Save Selection dialog box, 192,
192–193

saving

actions, 264

curve settings, 231

layer styles, 150

levels settings, **224**

palette layouts, 307–308

panoramas, 446–447

paths, 170–171

reverting to last image before, 247

selection as alpha channel,

192–193

snapshots of image, 250–251

Web graphics, file formats for, 488

- scale, 895
- for photographs, **119**, 120
 - of visual elements, and depth illusion, 124
- scalloped path, 160
- scanner, 895
- 3D effects from, **412–414**
- scanning
- resolution for, 767
 - for Web graphics, **482–483**
- scratch disks, 23, 895
- screen, 895
- Photoshop vs. Painter vs. Illustrator, **295–300**
- screen angles, 895
- screen frequency, 895
- Screen mode
- for Clone Pattern Stamp tool, 65
 - Photoshop vs. Painter vs. Illustrator, 300
- screen resolution, and Web graphic size, 569–570
- screw heads, **417–420**
- scripts, preferences, 318–319
- scrolling open palettes, 307
- seamed tiles for Web page background, 497, 497–498, 498
- seamless tiles for Web page background, 498, 498, 499, 548, **549–550**
- SECAM (Sequential Color and Memory) system, 895
- secondary color, 532, 895
- Select menu
- Inverse, 39, 51, 379
 - Load Selection, 196
 - Save Selection, 192
- selecting. *See also* Lasso tool
- colors with Magic Wand, **56–58**
 - marching ants to indicate, 49
 - paths, **165–167**
 - straight edges, **51–52**
 - text, Photoshop vs. Painter vs. Illustrator, 328
- selection, 896
- adding or subtracting from, 763–764
 - converting to path, **175**
 - keyboard shortcuts for, 759
 - loading, **195–196**
 - Quick Mask Mode control, **201–204**
 - saving as alpha channel, **192–193**
- selective color, **233–234**
- Selective Color dialog box, 233, 233
- semitransparent image, 130, 131
- Send Backward option for layer, 133
- Send To Back option for layer, 133
- separations, 896
- Sequential Color and Memory (SECAM) system, 895
- serif, 896
- server-side image map, **587**, 896
- creating, **597–601**
- shade, 896
- of color, 533
- shadow point, finding, 221–222
- shadows, 896
- Dodge tool to lighten, **99–100**
- SHAPE attribute of <AREA> tag (HTML), 594
- Shape tool, 180
- Options bar, 180–181, 181
 - and vector graphics, 6

932 shapes — Spatter filter

- shapes
 - animating in LiveMotion, **637–646**
 - motion path, **643–646**, 644
 - spin, **641–642**
 - zooming in, 638, **638–640**
 - creating, **180–187**
 - creating by closing path, **162**
- Sharpen Edges filter, 828–829, 829
- sharpen filters, **826–831**
 - Sharpen Edges filter, 828–829, 829
 - Sharpen/Sharpen More filter, 827, 827, 828
 - Unsharp Mask filter, 830–831, 831
- Sharpen/Sharpen More filter, 827, 827, 828
- Sharpen tool, **96–97**
 - Options bar, 96
- sharpening, 896
- Shear filter, 805, 805
- Shockwave animations, 630
- similar colors, 533
- sketch filters, **832–845**
 - Bas Relief filter, 832, 832
 - Chalk & Charcoal filter, 833, 833
 - Charcoal filter, 834, 834
 - Chrome filter, 835, 835
 - Conté Crayon filter, 836, 836
 - Graphic Pen filter, 837, 837
 - Halftone Screen filter, 838, 838
 - Note Paper filter, 839, 839
 - Photocopy filter, 840, 840
 - Plaster filter, 841, 841
 - Reticulation filter, 842, 842
 - Stamp filter, 843, 843
 - Torn Edges filter, 844, 844
 - Water Paper filter, 845, 845
- skew, 896
- slice, 896
- Slice tool, 25, 25
- slicing artwork, **560–563**
- small doses for Unsharp Mask filter, 241
- Smart Blur filter, 789, 789
- smart guides in Illustrator, 320
- smearing, Smudge tool for, **97–99**
- smooth anchor points, 168
- smoothing, 896
- SMPTE-C standard, 713, 896
- smudge, 896
- Smudge Stick filter, 780, 780
- Smudge tool, 25, 26, **97–99**
- snap, 896
- snapshots, 897
 - deleting, 252
 - in History options, 250
 - painting with, **254–255**
 - saving, 89, **250–252**
- snow, adding to picture, 403, 403–404
- Soft Light mode for Clone Pattern
 - Stamp tool, 66
- softening edges, with Blur tool, **94–96**
- SoftImage 3D, 435
- software
 - with digital cameras, 109
 - for image mapping, 591
 - using multiple graphic packages, **281–287**
- solarization, 897
- Solarize filter, 851, 851
- sort proof, 897
- source document for dragging layer, 140
- source materials for scanning, 482
- Spacing setting for Art History Brush tool, 92
- Spatter filter, 795, 795

- special effects, past and present, 4
- special effects with lighting, **392–396**
- specification for type, Photoshop vs.
 - Painter vs. Illustrator, 325, **338–349**
- Specifications for Web Offset Publications (SWOP), 714
- Spherize filter, 418, 806, 806
- spin for LiveMotion animation, **641–642**
- splitting channels, 199–200
- Sponge filter, 781, 781
- spot, 897
- spot color, 897
 - channels, 201
 - overlay, 897
 - profiles, **727–728**
- spotlight, **396**
- SPP (Standard Parallel Port), 745
- Sprayed Strokes filter, 796, 796
- square, constraining Rectangle tool to create, 182
- SRC attribute of tag (HTML), 570, 571
- sRGB color space, 11–12, **710–711**, 897
- Stained Glass filter, 859, 859
- Stamp filter, 843, 843
- stamp tools
 - Clone Stamp tool, **60–62**
 - Options bar, **64–67**
 - Aligned setting, 67
 - Brush options, 64, 64
 - Mode options, 65–66
 - Opacity setting, 66
 - Pattern Stamp tool, **62–64**
- Standard Mode control, 27
- Standard Parallel Port (SPP), 745
- Standard Screen Mode control, 27
- states in History, 247, 897
 - deleting, **252–253**
 - editing, **252–255**
 - increasing number, 249
 - status bar in Illustrator, 314
- Std Dev in histogram, 209
- Step Backward in undo, 246
- Step Forward to redo, 246–247
- stereopsis, 452
- Stitch Options dialog box (PhotoVista), 446
- stitching programs for panoramas, 442
- stock art, 480
- stock photo houses, 111
- Straight curve style for type on path, 356, 356
- straight edges, selecting, **51–52**
- straight lines from LiveMotion Pen tool, 631
- straight paths, **158–159**
 - attaching curved path to, **161–162**
 - attaching to curved path, **162**
- strip, 898
- Stroke Path dialog box, 173, 173
- Stroke style, 150
- stroke weight, scaling, 320
- stroking, 898
- style for Art History Brush tool, 92
- Style sheets for background image for Web page elements, 605
- styles for layers, **144–151**
 - applying, 150
 - saving, 150
- styles of type, Photoshop vs. Painter vs. Illustrator, 327
- stylize filters, **846–854**
 - Diffuse filter, 846, 846

934 Stylize menu—texture

Emboss filter, 847, 847
 Extrude filter, 848, 848–849
 Find Edges filter, 385–386, 386, 849, 849
 Glowing Edges filter, 850, 850
 Solarize filter, 851, 851
 Tiles filter, 852, 852
 Trace Contour filter, 853, 853
 Wind filter, 854, 854
 Stylize menu > Tile filter, 380
 substrate, 898
 subtracting from selection, 53, 55
 subtractive color, **532–533**, 708
 subtractive primary colors, 898
 Sumi-e filter, 797, 797
 swapping colors within channels, **235–236**
 SWOP (Specifications for Web Offset Publications), 714
 Sybex, Web site, 32

T

tabs in Illustrator, 355
 Tagged Image File Format (TIF), 9
 Tagged Image File Format (TIFF), 898
 support for Photoshop layers, 153
 targeted layer, **130**, 130
 opacity of, 132
 tear-off palettes in Illustrator, 300, 301
 tertiary colors, 533
 text. *See also* type
 in LiveMotion, **646–661**
 dissolve, **647–650**
 individual letter manipulation, **657–661**
 rotating, **650–656**

Photoshop vs. Painter vs. Illustrator, **324–331**
 anti-alias, 346
 application-specific commands, **355**
 baseline shift, **346**
 color, **343–345**
 copying type specifications, **348–349**
 editing, **350–351**
 filling text, **365–367**
 font size, 340–341
 fonts, **339–340**
 horizontal and vertical scale, **345**
 hyphenation and justification, **354**
 kerning, 342–343
 leading, **341–342**
 outlining text, **369–370**
 paragraph specifications, **352–355**
 rendering text, **368–370**
 specification for type, **338–349**
 text effects, **362–368**
 type on path, **356–361**
 type styles, **347–348**
 vertical text, **336–338**
 transferring between Photoshop
 Painter or Illustrator, **370–372**
 text effects
 action set for, 272, **276–277**
 Photoshop vs. Painter vs. Illustrator, 330, **362–368**
 text shapes, **335–336**
 text size, 19
 texture
 action set for, 272
 from Lighting Effects dialog box, **395**

- Texture Fill filter, 826, 826
- texture filters, 855–860
 - Craquelure filter, 855, 855–856
 - Grain filter, 856, 856–857
 - Mosaic Tiles filter, 857, 857
 - Patchwork filter, 858, 858
 - Stained Glass filter, 859, 859
 - Texturizer filter, 860, 860
- Texture style, 149
- Texturizer filter, 860, 860
- thermal ink-jet printers, 740
- thermal wax transfer, 898
- three-D. *See* 3D effects
- threshold, 898
- thumbnails, 898
 - in Layers palette, 126
 - size, 129, 129
 - in Paths palette, 170
 - on Web pages, 582
 - creating, **584–585**
- TIF file format, 9
- TIFF (Tagged Image File Format), 898
 - support for Photoshop layers, 153
- Tile Maker dialog box, 549
- tiled Web page background, 497, **497–498**, 498, 548, **548–550**, 602
- Tiles filter, 852, 852
- TimeLine window, 638–639
 - separate layer for each text character, 657
- tint, 533, 898
- tolerance, 898
 - for Background Eraser tool, 34, 85
 - for Magic Eraser tool, 36, 88
 - for Magic Wand tool, 56, 57–58
 - for Paint Bucket tool, 77
 - of paths, 175
 - tonal values in image, histogram to display distribution, 208–210, 211
- Tool palette, 898–899
- tool tip, 899
- tools in Photoshop, 25
 - basics, **24–26**
 - controls, 26–27, 27
 - Jump to ImageReady control, 545
 - keyboard shortcuts for, 756–757
- top margin backgrounds for Web pages, 502, 503
- Torn Edges filter, 844, 844
- total ink coverage, 720
- Trace Contour filter, 853, 853
- tracing paper in Painter, 314–315
- tracking, 899
- Transform curve style for type on path, 357
- Transform tool for LiveMotion vector objects, **635–637**
- transformation
 - to linked layers, 133
 - of paths, 169
 - of text, Photoshop vs. Painter vs. Illustrator, 330
- transparency, 495. *See also* opacity
 - alpha channel for, 190
 - background layer and, 127
 - of color, 536
 - erasing to, 294–295
 - of GIF files, **517–520**, 518
 - layers, **130–131**
 - locking pixels, 136–137
 - Photoshop vs. Painter vs. Illustrator, preferences, 319–320
- transparency scanner, 899
- transparent area, display, setting preferences, 18

936 transparent GIF—vector graphics

transparent GIF, for Web page spacing,
577

trap, 899

trapping, 899

triad, 899

“trick photography”, 4

trim size, 899

tripods, 451

tritone, 899

troubleshooting

actions, **270**

ink-jet printers, **740–749**

absence of print, **741–743**

common error messages,
749–751

dead printer, **744–745**

garbled output, **748**

paper jams, **749**

poor quality, **746–748**

slow or intermittent printing,
745–746

wrong color, **743–744**

tweening, **617–619**, 619, 899

Twirl dialog box, 72, 73

Twirl filter, 807, 807

type

in Illustrator vs. Photoshop, 287

keyboard shortcuts for, 760

Photoshop vs. Painter vs. Illustrator,
324–331

type layers, **150–151**

type on path, Photoshop vs. Painter vs.
Illustrator, **356–361**

type styles, Photoshop vs. Painter vs.
Illustrator, **347–348**

Type tool, 25, 26

in Illustrator, 334, 334

Options bar, 338, 338

in Painter, 334–335

in Photoshop, 333

and vector graphics, 6

U

UCR (undercolor removal), 899

Ulead, 479

Cool3D, 435–438, 436

Particle filter, **401–405**

Photo Impact, 492

ultraviolet light, and photo paper, 687

undercolor removal (UCR), 899

Underpainting filter, 782, 782

undo commands, **246–247**

preferences, 319

Uniform Resource Locator (URL), for
 tag, 571

Unisys, 528

Unsharp Mask filter, 109, **239–242**,
830–831, 831

interface, 240

unsharp masking, 900

URL (Uniform Resource Locator), for
 tag, 571

USEMAP attribute of <IMG tag
(HTML), 596–597

USEMAP attribute of tag
(HTML), 593

User Intervention printer status, 745

V

value of color, 534

Variations dialog box, 216–217, 217

vector graphics, **5–10**, 900

vs. raster image, 7

- vector objects in Adobe LiveMotion, **630–637**
 - with Pen Selection tool, **634–635**
 - with Pen tool, **630–634**
 - with Transform tool, **635–637**
 - vector objects, paths as, 156
 - vertical text, Photoshop vs. Painter vs. Illustrator, 325, **336–338**
 - video filters, **861–862**
 - De-Interlace filter, 861, 861
 - NTSC colors filter, 862
 - View menu
 - Clear Guides, 113
 - Gamut Warning, 724
 - Lock Guides, 113
 - Proof Setup, 723
 - Show Grid, 113
 - Show Rulers, 111
 - Snap to Guides, 113
 - viewing
 - alpha channel, **193–194**, 194
 - color channels, 193
 - layers, **129–130**
 - views, keyboard shortcuts for, 762–763
 - Vignette action, 274, 274
 - virtual reality, 445
 - visible layers, merging, 152
 - vista, 442
- W**
- Wacom, 48
 - Intuos tablet, 285
 - warm hues, 534
 - Water Paper filter, 845, 845
 - Watercolor filter, 783, 783
 - watermarks for Web pages, **556–557**, 557
 - Wave filter, 808, 808–809
 - wavelets, 462
 - Web browser, viewing LiveMotion
 - animation in, **678–679**, 678–679
 - Web colors, 900
 - Web graphics
 - adding to page, **570–582**
 - advertising banners, **563–565**
 - aligning, **576–579**, 578, 579
 - alternative text, **574–575**
 - bandwidth and, 471
 - border, **579–580**
 - buttons, **558–560**, 559
 - development, **568–570**
 - file size, **568**
 - physical size, **568–570**
 - file formats, **488–491**. *See also* GIF
 - file format; JPEG file format
 - formats supported, **510–511**
 - headers, **496**, 496, **557–558**
 - height and width, 575–576
 - image production, **480–488**
 - quality, **481**
 - scanning, **482–483**
 - ImageReady for, **544–546**
 - as links, **582–585**, 584
 - maximum size, 484
 - myths, **472–475**
 - optimization, 478, 488, **491–493**
 - photographs, 560, **560–563**
 - photographs and illustrations, **505**, 506
 - selecting enhancements, **486–488**, 487
 - sizing, **484–485**
 - techniques, **494–495**
 - tools, **477–480**
 - animated GIF program, 478
 - Debabelizer Pro, 478
 - drawing programs, 478

938 Web page design—zooming in

- enhancement programs, 479
 - graphic source material, 479
 - Photoshop, **477–478**
 - uses, **496–505**
 - background graphics, **497–505**
 - headers, 496, 496
 - Web page design
 - adding graphics, **570–582**
 - color in, **580–582**
 - graphic size and, 569
 - transparent GIF for spacing, 577
 - Web pages, to upload photos to
 - finishers, 697–698
 - Web Photo Gallery, 44, 44
 - Web site design, graphics and, 474
 - Web sites
 - of Adobe Photoshop, **27–28**
 - for Genuine Fractals PrintPro, 462
 - graphics techniques, 5
 - MGI, 444
 - Sybex, 32
 - Wacom, 48
 - Wet Edges for Eraser tool, 83, 83–84
 - white artboard, in Illustrator, 292
 - white, bright vs. paper, 724
 - white point, 218, 900
 - setting, **222–223**
 - Wide Gamut RGB, 713
 - WIDTH attribute of tag
 - (HTML), 570, 575–576
 - Wind filter, 854, 854
 - Window menu, 28, 29, 308
 - > Hide Options, 288
 - > Show Channel, 191
 - > Show Color, 71
 - > Show History, 89, 248
 - > Show Info, 211
 - > Show Layers, 90, 126
 - > Show Paths, 170
 - Windows, key combinations for, 49
 - wire frame, 432, 433, 900
 - Work Path, 170
 - work path, 900
 - wrapping image around 3D objects, 429, **429–434**
 - wrapping text around graphic, 355
 - wrong-reading image, 900
- ## X
- x-height, 900
- ## Y
- Yale HTML style guide, Web graphic screen length recommendation, 485
- ## Z
- Zigzag filter, 809, 809–810
 - zoom, 900
 - Zoom tool, 25, 26
 - zooming for LiveMotion animation, 638, **638–640**
 - zooming in, 49
 - for Lasso tool accuracy, 55