

SUBJECT INDEX

- 35mm negatives 7, 15
Art & Antiques magazine 115
algebra, Porter-Duff 111
area processes 23
atan 19
averaging 27, 110
Bartlane system 7
blit terminal 31
blurring 110
Byte magazine 11-12
camcorder 8
camera, digital 8, 12
Canon 9, 12, 116
CCD 8, 9, 11, 116
color 12, 15, 107
combination print 2-3
commands, popi 76
command terminators, popi 76
composites 111
conditional transformations 19, 86-87
contrast expansion 109
coordinates
 cartesian 16
 polar 20, 44, 48, 58, 68, 107, 111
correction, logarithmic 22, 109
cos 19
daguerrotype 2
data structure, popi 89
defaults, popi 82, 109
digital
 cameras 8, 12
 printers 11
 scanners 11
display command, popi 78, 105
DMD 5620, Teletype 31
double exposure 1-3
edit buffers, popi 77
efficiency, popi 75
enlarging 110
errors, popi syntax 82
EWD icon 31
extensions, to popi 106-107, 109
face server 32
file command, popi 76
file handler, popi 76
file references, popi 84-85
files command, popi 84
film printers, digital 11
fisheye transformation 60
floppy disk 10
focus restoration 4, 23, 109
frame-grabber 11
Fuji 9
funhouse mirror 56
gamma 114
geometric transformation 24
grammar rules, popi 82
grid transformations 110-111
halftoning 106
hand coloring 2
HDTV 11
Hitachi 8
image
 artificial 17
 averaging 27, 110
 buffers 78, 89
 coordinates 16
 disks 10
 filters 22, 108
 matte 38, 52, 70, 114
 melting 42, 114
 mirroring 38, 110
 normalization 109
 oiling 46, 111
 relief 23, 110
 rotating 25, 110
retouching 1
rubber-sheet 64
sensors 9
shearing 36, 112
shrinking 25, 110
slicing 50, 113
smoothing 110
solarizing 1, 22, 109
stretching 25
tiling 62, 113
Imagitex Inc. 11
indexing, popi 84
interpreter, popi 76, 91
I/O handler, popi 80, 90
Jet Propulsion Lab 7
kalotype 2
knifing negatives 1
Kodak 9, 12
Laplacian filter 23
lexical analyzer, popi 76, 78
library routines
 C 78
 popi 104
Life magazine 7
linear fade 27
literals, popi grammar 83
logarithmic correction 22, 109
logo, PJW 42
Matrix Instruments Inc. 12
matte 38, 52, 70, 114
Mavica CCD camera 9
Megaplus CCD camera 9
melting, picture 114
memory allocation, popi 89
mirroring 38, 110
modulo arithmetic 17
multiphotography 3
multiple exposure 1-3
NASA 7
NEC 8

negatives
 35mm 7, 15
 knifing 1
 resolution 15
 nonlinearity 9, 22
 normalization 109
 oil transformation 46, 111
 performance, popi 104
 Photokina 9-10
 photo montage 2
 pico 33, 75, 105
 pixel 12, 15, 75, 77, 89
 PJW logo 42
 point processes 22
 polar coordinates 20, 44,
 48, 58, 68, 107, 111
 Polaroid 12, 32
 popi 75
 color 107
 commands 76
 conditional expressions
 86
 data structure 89
 defaults 82, 109
 display command 78,
 105
 buffers 77-78, 89
 efficiency 75
 extensions 106-107,
 109
 file handler 76
 file references 84
 grammar rules 82-83
 array indexing 84
 interpreter 76, 91
 I/O handler 80, 90
 lexical analyzer 76, 78
 library routines 104
 memory allocation 89
 parser 76, 81, 85
 performance 104
 precedence rules 86
 prompt 76, 81
 quit command 76, 81
 read command 76-77,
 90
 resolution 76, 89
 restrictions 75
 stack machine 91
 structure 77
 error handling 82
 undo operation 107
 write command 76, 90
 Porter-Duff algebra 111
 postfix expressions 85
 precedence rules, popi 86
 printers, video 12
 projection 34
 QCR digital camera 12
 RCA 8
 recursive-descent parser,
 popi 76
 relief transformation 23,
 110
 resolution 8, 11-12
 popi 76, 89
 human eye 16
 negatives 15
 prints 16
 television 16
 retouching 1
 rotating 25, 110
 rubber-sheet 64
 sampling grid 16
 scanner, photo 11
 sensors, image 9
 shrinking 25, 110
 sin 19
 slicing, picture 50, 113
 SLR camera 8
 smoothing 110
 solarization 1, 22, 109
 Sony 9, 12
 SpectraFax Corp. 11
 stack machine, popi 91
 still video 9
 stretching 25
 syntax errors, popi 82
 sysmon 32
 TARGA board 11
 Tektronix 8
 Teletype DMD 5620 31
 terminal, blit 31
 terminals, popi grammar
 83
 tiling, picture 62, 113
 tokens 77, 78, 83
 Toshiba 8
 trigonometry 19, 107, 111
 undo operation, popi 107
 Videk 9
 video printers 12
 vismon 32
 water tower logo 42
 weighted average 110
 x, y, and z, defined 16