

Index

A

Above, 46, 47, 225
 Access control list, 193, **470**
 Active grab, **248, 470**
 AllHints, 355
 AllocAll, 86, 87, 95, 377
 Allocation:
 read-only colormap cells, 89
 colormap, 90
 read-only colormap cells, 90, 91
 read/write colormap cells, 92
 read/write colormap planes, 93
 AllocNamedColor, 243
 AllocNone, 86
 AllowEvents, 258
 AllowExposures, 190, 192
 AllPlanes, **10**, 130
 AllTemporary, 190
 AlreadyGrabbed, 250, 254
 Always, 23, 37, 53, 59, 215
 Ancestors, **470**
 AnyButton, 251, 253
 AnyKey, 255, 256
 AnyModifier, 251, 253, 255, 256
 AnyPropertyType, 66, 68
 ArcChord, 133, 145, 161
 ArcPieSlice, 129, 133, 145, 161
 Arcs:
 drawing, 156
 filling, 160
 Areas:
 clearing, 147
 copying, 148
 AsyncBoth, 256, 257
 AsyncKeyboard, 256, 257, 258
 AsyncPointer, 256, 257, 258
 Atom, 62
 predefined, 62
 Atom, 63
 interning, 64
 getting name, 65
 interning, 65
 Atom, 326
 predefined, 343
 Atom, 347, 450, 452, **470**
 Authentication, 193
 AutoRepeatModeDefault, 262
 AutoRepeatModeOff, 262, 263

AutoRepeatModeOn, 262, 263

B

B16, 449
 B32, 449
 Background, **470**
 Backing store, **470**
 BadAccess, 54, 95, 96, 97, 98, 194, 195, 196, **243**, 253, 256
 BadAlloc, 41, 42, 65, 69, 73, 74, 75, 76, 86, 87, 134, 135, 137, 138, 139, 140, 142, 143, 144, 145, 146, 165, **243**, 270, 272, 351, 353, 354, 357, 360, 361, 363, 364, 365, 366, 367, 370, 371, 377, 408, 409, 416, 418, 460, 461, 462, 463
 BadAtom, 65, 66, 68, 69, 70, 71, 72, **243**, 245, 282, 283, 316, 318, 326, 351, 352, 361, 362, 377, 462, 463
 BadColor, 41, 54, 56, 87, 88, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 187, **243**, 245, 316, 318, 326
 BadCursor, 41, 54, 56, 77, 78, **243**, 245, 250, 251, 253, 318, 326
 BadDrawable, 59, 60, 73, 77, 134, 141, 142, 149, 150, 152, 154, 155, 157, 159, 160, 161, 175, 176, 178, 180, 181, 183, **243**, 245, 416, 417, 418, 463
 BadFont, 75, 134, 135, 143, 166, 172, 174, 175, **243**, 245, 296
 BadGC, 26, 134, 135, 136, 137, 138, 139, 140, 142, 143, 144, 145, 146, 149, 150, 152, 154, 155, 157, 159, 160, 161, 172, 175, 176, 178, 180, 183, **243**, 245, 416, 418
 BadIDChoice, **243**
 BadImplementation, 243, **245**
 BadLength, 243, **245**, 272, 449
 BadMatch, 33, 35, 36, 38, 39, 40, 41, 42, 46, 47, 48, 52, 54, 55, 56, 69, 70, 76, 86, 132, 133, 134, 135, 141, 142, 143, 144, 145, 148, 149, 150, 152, 154, 155, 157, 159, 160, 161, 175, 176, 178, 180, 181, 182, 183, 185, 186, 243, **245**, 260, 262, 263, 346, 410, 417, 418
 BadName, 98, 165, 243, **245**
 BadPixmap, 41, 54, 55, 74, 76, 134, 135, 142, 143, 144, 243, **245**, 316, 318, 326
 BadRequest, 243, **245**
 BadValue, 26, 39, 41, 42, 46, 48, 49, 50, 51, 54, 65, 68, 69, 73, 74, 75, 86, 93, 94, 95, 96, 97, 98, 99, 100, 133, 134, 135, 137, 138, 139, 140, 141, 145, 146, 148, 150, 152, 154, 160, 180, 181, 183, 185, 188, 190, 191, 192, 194, 195, 196, 240, 243,

245, 250, 251, 253, 254, 256, 258, 260, 262, 263, 264, 265, 266, 269, 270, 272, 346, 351, 418
 BadWindow, 41, 42, 44, 45, 48, 49, 50, 51, 52, 53, 54, 55, 56, 58, 59, 61, 62, 68, 69, 70, 71, 72, 86, 148, 185, 186, 188, 232, 240, 242, 243, **245**, 250, 253, 254, 256, 259, 260, 316, 318, 321, 346, 351, 352, 353, 354, 355, 357, 360, 361, 362, 363, 364, 365, 366, 367, 368, 370, 371, 377, 460, 461, 462, 463
 Base font name, **470**
 Below, 46, 47
 Bit:
 gravity, **470**
 plane, **470**
 Bitmap, 2, **471**
 BitmapBitOrder, **19**
 BitmapFileInvalid, 415
 BitmapNoMemory, 415, 417
 BitmapOpenFailed, 415, 417
 BitmapPad, **19**
 BitmapSuccess, 415, 417
 BitmapUnit, **19**
 BlackPixel, 10, **11**
 BlackPixelOfScreen, **21**
 Bool, **4**, 199, 236, 237, 315, 439
 Border, **471**
 BottomIf, 46, 47, 48
 Button:
 grabbing, 251
 ungrabbing, 253
 grabbing, **471**
 Button1, 206
 Button1Mask, 206, 208
 Button1Motion, 38
 Button1MotionMask, 200, 203, 206, 249
 Button2, 206
 Button2Mask, 206, 208
 Button2Motion, 38
 Button2MotionMask, 200, 206, 249
 Button3, 206
 Button3Mask, 206, 208
 Button3Motion, 38
 Button3MotionMask, 200, 206, 249
 Button4, 206
 Button4Mask, 206, 208
 Button4Motion, 38
 Button4MotionMask, 200, 206, 249
 Button5, 206
 Button5Mask, 206, 208
 Button5Motion, 38
 Button5MotionMask, 200, 203, 206, 249
 ButtonMotion, 38
 ButtonMotionMask, 200, 201, 203, 249

ButtonPress, 38, 197, 200, **203**, 210, 232, 252, 257
 ButtonPressMask, 53, 200, 203, 232, 249
 ButtonRelease, 38, 197, **203**, 210, 257
 ButtonReleaseMask, 200, 203, 249
 Byte:
 order, **471**

C

CallbackPrototype, **328**
 calloc, 456
 CapButt, 129, 131, 138
 CapNotLast, 131, 138
 CapProjecting, 131, 138
 CapRound, 131, 138
 CARD16, 457
 CARD32, 457
 CCC, 85
 default, 85
 of colormap, 85
 default, 100
 of colormap, 100
 default, 101
 of colormap, 101
 creation, 104
 freeing, 105
 CellsOfScreen, **21**
 CenterGravity, 36, 59
 Changing:
 pointer grab, 251
 char, 66, 68, 69, 457
 Character, **471**
 Character glyph, **471**
 Character set, **471**
 Charset, **471**
 CharSetEncoding, 288, 470, 473
 CharSetRegistry, 288, 470, 473
 Children, **471**
 Child window, 1
 Child Window, 57
 Chroma, 117
 maximum, 117
 Chroma, 118
 maximum, 118
 Chroma, 119
 maximum, 119
 CIE metric lightness, 113, 114
 maximum, 114
 CIE metric lightness, 115
 minimum, 115
 CIE metric lightness, 116
 maximum, 116
 CIE metric lightness, 117

- minimum, 117
- CirculateNotify, 51, 197, 201, 207, **217**, 223
- CirculateRequest, 51, 197, **224**, 232
- Class, **471**
- Clearing:
 - areas, 147
 - windows, 148
- Client, **472**
- ClientMessage, 63, 197, 200, **227**, 345
- Client White Point, 85
 - of Color Conversion Context, 103
- ClientWhitePointOfCCC, **102**
- ClipByChildren, 129, 133, 146, 147
- Clipping region, **472**
- Coded character, **472**
- Coded character set, **472**
- Codepoint, **472**
- Color, 80
 - naming, 87, 88
 - allocation, 89, 90, 91
 - naming, 91
 - allocation, 92, 93
 - deallocation, 94
 - storing, 95, 96
 - naming, 97
 - storing, 97
 - querying, 98, 99
 - conversion, 106
- Color Characterization Data, 125
- Color conversion, 106
- Color Conversion Context, 85
 - creation, 85
 - default, 85
 - of colormap, 85
 - creation, 100
 - default, 100
 - of colormap, 100
 - default, 101
 - of colormap, 101
 - creation, 104
 - freeing, 105
- Colormap, 2, 26, 27
 - CCC of, 100, 101
- Colormap, 326, 450, **472**
- Color map, 80, 90
- ColormapChangeMask, 200, 227
- ColormapInstalled, 227
- ColormapNotify, 53, 87, 187, 197, **226**, 227
- Colormaps:
 - standard, 375
- ColormapUninstalled, 227
- Complex, 159, 160
- ConfigureNotify, 46, 197, 201, 207, 217, **218**, 223
- ConfigureRequest, 3, 46, 48, 49, 50, 51, 52, 197, 224, **225**, 232
- ConfigureRequestEvent, 346
- ConfigureWindow, 225, 346
- Connection, **472**
- ConnectionNumber, **11**
- Containment, **472**
- Control, 272
- ControlMask, 206, 209, 249, 253
- ConvertSelection, 230
- Convex, 159
- Coordinate system, **472**
- CoordModeOrigin, 152, 153, 154, 159
- CoordModePrevious, 152, 153, 154, 159
- CopyArea, 150
- CopyFromParent, 34, 36, 39, 53, 55
- Copying:
 - areas, 148
 - planes, 149
- CreateNotify, 40, 41, 197, 201, 217, **219**
- CurrentTime, 71, 72, 200, 230, 241, **248**, 249, 250, 251, 253, 254, 255, 256, 259, 260, 482
- Cursor, 2, 26, 27
 - Initial State, 41
 - limitations, 77
- Cursor, 326, 450, **472**
- CursorShape, 140, 141
- Cut Buffers, 408
- CWBackingPixel, 33
- CWBackingPlanes, 33
- CWBackingStore, 33
- CWBackPixel, 33
- CWBackPixmap, 33
- CWBitGravity, 33
- CWBorderPixel, 33
- CWBorderPixmap, 33
- CWBorderWidth, 45
- CWColormap, 33
- CWCursor, 33
- CWDontPropagate, 33
- CWEventMask, 33
- CWHeight, 45
- CWOverrideRedirect, 33
- CWSaveUnder, 33
- CWSibling, 45
- CWStackMode, 45
- CWWidth, 45
- CWWinGravity, 33
- CWX, 45

CWY, 45

D

Data, 452, 453, 456

Data16, 453

Data32, 453

Debugging:

error handlers, 242

synchronous mode, 242

error event, 243

error numbers, 243

error message strings, 245

DefaultBlanking, 190, 192

DefaultColormap, **11**, 80

DefaultColormapOfScreen, **22**

DefaultDepth, **12**

DefaultDepthOfScreen, **22**

DefaultExposures, 190, 192

DefaultGC, **12**

DefaultGCOfScreen, **22**

Default Protection, 193

DefaultRootWindow, **13**

DefaultScreen, 8, 9, **13**

DefaultScreenOfDisplay, **13**

DefaultVisual, **14**, 80

DefaultVisualOfScreen, **22**

#

#define, 63, 343

D

Depth, **473**

Destination, **129**

DestroyAll, 26, 27

DestroyCallback, **314**, **329**

DestroyNotify, 42, 197, 201, 217, **219**

Device, **473**

Device Color Characterization, 124

Device profile, 85, 125

DirectColor, 31, 32, 80, 86, 93, 94, 376, **473**, 482

DisableAccess, 196

Display, 9, 10

data structure, 10

Display, 26, 272, 445, 446, 451, 453, **473**

structure, 473

Display, 480

structure, 480

DisplayCells, **14**

Display Functions, **129**

DisplayHeight, **20**

DisplayHeightMM, **20**

DisplayOfCCC, **101**

DisplayOfScreen, **23**

DisplayPlanes, **14**

DisplayString, **15**

DisplayWidth, **20**

DisplayWidthMM, **21**

DoBlue, 80, 88, 96, 97, 98, 99

DoesBackingStore, **23**

DoesSaveUnders, **23**

DoGreen, 80, 88, 96, 97, 98, 99

DontAllowExposures, 190, 192

DontPreferBlanking, 190, 192

DoRed, 80, 88, 96, 97, 98, 99

Drawable, 2, 450, 452, **473**

Drawing:

points, 151

lines, 152

polygons, 152

rectangles, 154

arcs, 156

text items, 173

strings, 175

image text, 176

E

EastGravity, 36, 59

EnableAccess, 196

Encoding, **473**

EnterNotify, 197, **207**, 208, 209, 210, 211, 214,

223, 250, 251

EnterWindowMask, 200, 207, 249

Environment:

DISPLAY, 8

Error:

handling, 3

handlers, 242

codes, 243

Escapement, **473**

/

/etc/X?.hosts, 193

E

EvenOddRule, 129, 133, 140, 404

Event, 2, 197

categories, 197

types, 197

propagation, 231

Event, **473**

Exposure, **474**
 mask, **474**
 propagation, **474**
 source, **474**
 synchronization, **474**
 Event mask, **199**
 EventMaskOfScreen, **23**
 Events:
 ButtonPress, 203
 ButtonRelease, 203
 KeyPress, 203
 KeyRelease, 203
 MotionNotify, 203
 EnterNotify, 207
 LeaveNotify, 207
 FocusIn, 210
 FocusOut, 210
 KeymapNotify, 214
 Expose, 215
 GraphicsExpose, 216
 NoExpose, 216
 CirculateNotify, 217
 ConfigureNotify, 218
 CreateNotify, 219
 DestroyNotify, 219
 GravityNotify, 220
 MapNotify, 220
 MappingNotify, 221
 ReparentNotify, 222
 UnmapNotify, 222
 VisibilityNotify, 223
 CirculateRequest, 224
 ConfigureRequest, 225
 MapRequest, 225
 ColormapNotify, 226
 ResizeRequest, 226
 ClientMessage, 227
 PropertyNotify, 228
 SelectionClear, 229
 SelectionRequest, 229
 SelectionNotify, 230
 Expose, 2, 3, 33, 36, 37, 42, 43, 44, 45, 48, 49, 50, 51, 147, 148, 185, 191, 197, 207, 211, **215**, 223
 ExposureMask, 200, 215
 Extension, **474**
F
 False, **4**, 23, 29, 34, 38, 43, 46, 48, 49, 50, 51, 52, 59, 61, 62, 64, 97, 106, 148, 166, 200, 203, 206, 208, 225, 226, 227, 232, 234, 235, 237, 238, 239, 240, 242, 250, 254, 274, 281, 291, 292, 311, 312, 315, 338, 356, 388, 389, 390, 393, 434, 440, 442, 454
 FamilyChaos, 193
 FamilyDECnet, 193
 FamilyInternet, 193
 FamilyInternet6, 193
 FamilyServerInterpreted, 193
 Files:
 <X11/X.h>, 2
 <X11/Xcms.h>, 3
 <X11/X.h>, 3
 <X11/Xlib.h>, 3
 <X11/Xresource.h>, 3
 <X11/Xutil.h>, 3
 <X11/cursorfont.h>, 4
 <X11/keysymdef.h>, 4
 <X11/keysym.h>, 4
 <X11/X10.h>, 4
 <X11/Xatom.h>, 4
 <X11/Xlib.h>, 4
 <X11/Xlibint.h>, 4
 <X11/Xproto.h>, 4
 <X11/Xprotostr.h>, 4
 <X11/Xlib.h>, 9
 <X11/Xatom.h>, 63
 <X11/Xcms.h>, 79
 <X11/Xlib.h>, 79
 <X11/X.h>, 129
 <X11/Xatom.h>, 166
 /etc/X?.hosts, 193
 <X11/X.h>, 197
 <X11/Xlib.h>, 198
 <X11/X.h>, 200
 <X11/Xproto.h>, 216, 243
 <X11/keysymdef.h>, 267
 <X11/keysym.h>, 267
 <X11/Xlib.h>, 341
 <X11/Xatom.h>, 343
 <X11/Xutil.h>, 355, 357, 362, 367
 <X11/Xatom.h>, 375
 <X11/Xresource.h>, 379
 <X11/keysymdef.h>, 398
 <X11/Xutil.h>, 402, 403, 410
 <X11/Xlib.h>, 411
 <X11/Xutil.h>, 413, 418
 <X11/Xlibint.h>, 434
 <X11/Xlib.h>, 435, 445, 446
 <X11/Xlibint.h>, 448, 449
 <X11/Xproto.h>, 449, 450
 <X11/Xlibint.h>, 451
 <X11/Xproto.h>, 451
 <stdio.h>, 457
 <X11/Xutil.h>, 460
 \$HOME/.Xdefaults, 465

<X11/X10.h>, 466

Filling:

- rectangles, 158
- polygon, 159
- arcs, 160

FillOpaqueStippled, 132, 140, 150

FillPolygon, 158

FillSolid, 129, 132, 140, 178

FillStippled, 132, 140

FillTiled, 132, 140

FlushGC, **447**, 448

FocusChangeMask, 200, 210

FocusIn, 197, **210**, 211, 212, 213, 214, 254, 255, 260

FocusOut, 197, 207, **210**, 211, 212, 213, 214, 223, 254, 255, 260

Font, 2

font, 6

Font, 26, 27, 161, 450, **474**

Font glyph, **474**

FontLeftToRight, 163, 169, 170, 171

FontRightToLeft, 163, 169, 170, 171

Fonts:

- freeing font information, 164
- getting information, 164
- unloading, 164

Fonts, 468

Forget, 37

ForgetGravity, 34, 36, 37, 59

fork, 15

free, 456

Freeing:

- resources, 33, 54, 55
- colors, 94

Frozen events, **474**

Function set, 124

- LINEAR_RGB, 124

G

Gamut compression, 85

- client data, 103
- procedure, 103
- setting in Color Conversion Context, 103

Gamut handling, 85

Gamut querying, 111

GC, 445, **474**

GCArcMode, 127, 135

GCBgground, 127, 135

GCCapStyle, 127, 135

GCClipMask, 127, 135

GCClipXOrigin, 127, 135

GCClipYOrigin, 127

GCCLipYOrigin, 135

GCDashList, 127, 135

GCDashOffset, 127, 135

GCFillRule, 127, 135

GCFillStyle, 127, 135

GCFont, 127, 135

GCForeground, 127, 135

GCFunction, 127, 135

GCGraphicsExposures, 127, 135

GCGJoinStyle, 127, 135

GCLineStyle, 127, 135

GCLineWidth, 127, 135

GContext, 2, 26, 27, 136, 164, 165, 171, 243, 450

GCPlaneMask, 127, 135

GCStipple, 127, 135

GCSubwindowMode, 127, 135

GCTile, 127, 135

GCTileStipXOrigin, 127, 135

GCTileStipYOrigin, 127, 135

GeometryCallback, **329**

GetEmptyReq, 451, 452

GetKeyboardControl, 451, 453

GetReq, 451, 452, 456

GetReqExtra, 451, 452

GetResReq, 451, 452

GetWindowAttributes, 451, 453, 454

Glyph, **474**

Glyph image, **475**

Grab, **475**

Grabbing:

- server, 189
- pointer, 249
- buttons, 251
- keyboard, 253
- keys, 255

GrabFrozen, 250, 254

GrabInvalidTime, 250, 254

GrabModeAsync, 203, 249, 250, 251, 253, 254, 255

GrabModeSync, 249, 250, 251, 253, 254, 255

GrabNotViewable, 250, 254

GrabSuccess, 249

Graphics context, 127

- path, 131
- initializing, 134

Graphics context, **475**

GraphicsExpose, 133, 146, 149, 197, 198, 200, **216**, 217

Gravity, **475**

GravityNotify, 37, 46, 197, 201, 207, 217, **220**, 223

GrayScale, 31, 32, 76, 80, 86, 93, 375, 376, 463, **475**, 481

GXand, 129
 GXandInverted, 129
 GXandReverse, 129
 GXclear, 129
 GXcopy, 129, 148, 149, 178
 GXcopyInverted, 129
 GXequiv, 129
 GXinvert, 129
 GXnand, 129
 GXnoop, 129
 GXnor, 129
 GXor, 129
 GXorInverted, 129
 GXorReverse, 129
 GXset, 129
 GXxor, 129

H

Hash Lookup, 467

Headers:

<X11/X.h>, 2
 <X11/Xcms.h>, 3
 <X11/X.h>, 3
 <X11/Xlib.h>, 3
 <X11/Xresource.h>, 3
 <X11/Xutil.h>, 3
 <X11/cursorfont.h>, 4
 <X11/keysymdef.h>, 4
 <X11/keysym.h>, 4
 <X11/X10.h>, 4
 <X11/Xatom.h>, 4
 <X11/Xlib.h>, 4
 <X11/Xlibint.h>, 4
 <X11/Xproto.h>, 4
 <X11/Xprotostr.h>, 4
 <X11/Xlib.h>, 9
 <X11/Xatom.h>, 63
 <X11/Xcms.h>, 79
 <X11/Xlib.h>, 79
 <X11/X.h>, 129
 <X11/Xatom.h>, 166
 <X11/X.h>, 197
 <X11/Xlib.h>, 198
 <X11/X.h>, 200
 <X11/Xproto.h>, 216, 243
 <X11/keysymdef.h>, 267
 <X11/keysym.h>, 267
 <X11/Xlib.h>, 341
 <X11/Xatom.h>, 343
 <X11/Xutil.h>, 355, 357, 362, 367
 <X11/Xatom.h>, 375
 <X11/Xresource.h>, 379

<X11/keysymdef.h>, 398
 <X11/Xutil.h>, 402, 403, 410
 <X11/Xlib.h>, 411
 <X11/Xutil.h>, 413, 418
 <X11/Xlibint.h>, 434
 <X11/Xlib.h>, 435, 445, 446
 <X11/Xlibint.h>, 448, 449
 <X11/Xproto.h>, 449, 450
 <X11/Xlibint.h>, 451
 <X11/Xproto.h>, 451
 <stdio.h>, 457
 <X11/Xutil.h>, 460
 <X11/X10.h>, 466

HeightMMOfScreen, **24**

HeightOfScreen, **24**

HeightValue, 402

\$

\$HOME/.Xdefaults, 465

\$HOME/.Xdefaults-*name*, 465

H

Host Portable Character Encoding, **475**

Hotspot, **475**

I

IconicState, 345, 356

IconMaskHint, 355

IconPixmapHint, 355

IconPositionHint, 355

IconWindowHint, 355

Identifier, **475**

ImageByteOrder, **19**

Image text:

drawing, 176

IMInstantiateCallback, **311**

#

#include, 418

I

IncludeInferiors, 133, 146

Inferiors, **475**

InitExtension, 246

Input:

focus, **475**

manager, **475**

Input Control, 197

InputFocus, 239, 240
 InputHint, 355
 InputOnly, 33, 34, 36, 38, 39, 40, 41, 46, 54, 55, 59, 60, 73, 141, 142, 148, 185, 215, 223, 243, 471, 473, 476, 477
 InputOutput, 33, 34, 35, 36, 37, 38, 39, 40, 41, 43, 59, 133, 470, 471, 476, 477
 int, 5, 326, 439, 457
 Internationalization, **476**
 IsCursorKey, **399**
 IsFunctionKey, **399**
 IsKeypadKey, **399**
 IsMiscFunctionKey, **399**
 IsModifierKey, **399**
 ISO2022, **476**
 IsPFKey, **399**
 IsPrivateKeypadKey, **399**
 isspace, 482
 IsUnmapped, 59
 IsUnviewable, 59
 IsViewable, 59

J

JoinBevel, 131, 138
 JoinMiter, 129, 131, 138
 JoinRound, 131, 138

K

KBAutoRepeatMode, 261
 KBBellDuration, 261
 KBBellPercent, 261
 KBBellPitch, 261
 KBKey, 261
 KBKeyClickPercent, 261
 KBLed, 261
 KBLedMode, 261
 Key:
 grabbing, 255
 ungrabbing, 256
 grabbing, **476**
 Keyboard:
 grabbing, 253
 ungrabbing, 254
 bell volume, 261
 bit vector, 261
 keyclick volume, 261
 grabbing, **476**
 KeymapNotify, 197, **214**
 KeymapStateMask, 200, 214
 KeyMapStateMask, 249
 KeyPress, 38, 197, **203**, 214, 254, 255, 257, 262,

267, 339, 340, 396
 KeyPressMask, 200, 203
 KeyRelease, 38, 197, **203**, 214, 254, 257, 262, 339, 396
 KeyReleaseMask, 200, 203
 Keysym, **476**

L

LastKnownRequestProcessed, **16**
 Latin-1, **476**
 Latin Portable Character Encoding, **476**
 LeaveNotify, 197, **207**, 208, 209, 210, 211, 223, 250, 251
 LeaveWindowMask, 200, 207, 249
 LedModeOff, 262
 LedModeOn, 262
 LineDoubleDash, 131, 132, 138
 LineOnOffDash, 131, 132, 138
 Lines:
 drawing, 152
 LineSolid, 129, 131, 132, 138
 Locale, **476**
 Locale name, **477**
 Localization, **477**
 Lock, 268, 272, 400
 LockDisplay, **451**
 LockMask, 206, 209, 249, 253
 long, 66, 68, 69, 322, 326, 439, 457
 LookupColor, 243
 LowerHighest, 51, 52
 LSBFirst, 19

M

malloc, 456
 MapNotify, 43, 197, 201, 207, 217, **220**, 221, 223
 Mapped window, **477**
 MappingBusy, 265, 272
 MappingFailed, 272
 MappingKeyboard, 221, 222, 397
 MappingModifier, 221, 397
 MappingNotify, 197, 200, 217, **221**, 265, 270, 272, 397
 MappingPointer, 221, 222
 MappingSuccess, 265, 272
 MapRequest, 43, 197, 224, **225**, 226, 232
 MapWindow, 27, 184, 185
 MaxCmapsOfScreen, **24**
 mblen, 276
 mbtowc, 276
 Menus, 189
 MinCmapsOfScreen, **25**

Mod1, 268, 272
 Mod1Mask, 206, 209, 249, 253
 Mod2, 272
 Mod2Mask, 206, 209, 249, 253
 Mod3, 272
 Mod3Mask, 206, 209, 249, 253
 Mod4, 272
 Mod4Mask, 206, 209, 249, 253
 Mod5, 268, 272
 Mod5Mask, 206, 209, 249, 253
 Modifier keys, **477**
 Monochrome, **477**
 MotionNotify, 197, 201, **203**, 204, 207, 241
 Mouse:
 programming, 261
 MSBFirst, 19
 Multibyte, **477**

N

NextRequest, **16**, 243
 NoEventMask, 38, 200
 NoExpose, 146, 149, 197, 200, **216**
 Nonconvex, 159, 160
 None, **4**, 34, 35, 36, 39, 53, 54, 56, 59, 61, 62, 64,
 67, 71, 72, 74, 75, 87, 129, 133, 144, 145, 148,
 149, 173, 174, 203, 206, 208, 213, 218, 225, 227,
 230, 249, 250, 251, 259, 260, 297, 338, 352, 377,
 418, 459
 NoOperation, 8, 25
 NormalState, 356
 NorthEastGravity, 36, 59, 403
 NorthGravity, 36, 59
 NorthWestGravity, 34, 36, 37, 59, 403
 NoSymbol, 267, 269, 270, 396, 397, 398
 NotifyAncestor, 209, 211, 212
 NotifyDetailNone, 211, 213, 214
 NotifyGrab, 209, 210, 211, 214
 NotifyHint, 204, 206
 NotifyInferior, 209, 211, 212
 NotifyNonlinear, 209, 210, 211, 212, 213
 NotifyNonlinearVirtual, 209, 210, 211, 212, 213
 NotifyNormal, 206, 209, 211
 NotifyPointer, 211, 212, 213, 214
 NotifyPointerRoot, 211, 213, 214
 NotifyUngrab, 209, 210, 211, 214
 NotifyVirtual, 209, 211, 212
 NotifyWhileGrabbed, 211
 NotUseful, 23, 34, 37, 59

NULLQUARK, 393

O

Obscure, **477**
 Occlude, **477**
 OpenFont, 243
 Opposite, 46, 47, 48
 Output Control, 197
 OwnerGrabButtonMask, 200, 203

P

PackData, 457
 Padding, **478**
 PAllHints, 358, 359
 ParentRelative, 33, 35, 53, 54, 185
 Parent Window, 1, 57
 PAspect, 358
 Passive grab, 248, **478**
 PBaseSize, 358
 Pixel value, 130, **478**
 Pixmap, 2, 26, 27, 326, 450, 452, **478**
 Pixmaps, 468
 PlaceOnBottom, 217, 218, 225
 PlaceOnTop, 217, 225
 Plane:
 mask, 130
 copying, 149
 Plane, **478**
 mask, **478**
 PlanesOfScreen, **25**
 PMaxSize, 358
 PMinSize, 358
 Pointer:
 grabbing, 249
 ungrabbing, 250
 grabbing, 251
 Pointer, **478**
 grabbing, **478**
 PointerMotion, 38
 PointerMotionHintMask, 200, 204, 249
 PointerMotionMask, 200, 201, 204, 249
 PointerRoot, 27, 213, 214, 259, 260, 356
 PointerWindow, 239, 240
 Pointing device, **478**
 Points:
 drawing, 151
 poll, 30
 Polygons:
 drawing, 152
 filling, 159
 PolyLine, 154, 155

POSIX, **479**
 POSIX Portable Filename Character Set, **479**
 POSIX System Call:
 fork, 15
 PPosition, 358
 PreeditCaretCallback, **335**
 PreeditDoneCallback, **331**
 PreeditDrawCallback, 331, **332**
 PreeditStartCallback, **331**
 PreeditStateNotifyCallback, **327**
 PreferBlanking, 190, 192
 PResizeInc, 358
 Property:
 getting, 66
 listing, 68
 appending, 69
 changing, 69
 format, 69
 prepending, 69
 replacing, 69
 type, 69
 deleting, 70
 Property, **479**
 PropertyChangeMask, 200, 228
 PropertyDelete, 228, 229
 Property list, **479**
 PropertyNewValue, 228
 PropertyNotify, 68, 69, 70, 197, 227, **228**
 PropModeAppend, 69
 PropModePrepend, 69
 PropModeReplace, 69
 Protocol:
 DECnet, 9
 TCP, 9
 ProtocolRevision, **16**
 ProtocolVersion, **16**
 PseudoColor, 31, 32, 80, 86, 92, 93, 94, 376, 475, **479**, 481
 PSize, 358
 Psychometric Chroma, 113
 maximum, 113
 Psychometric Chroma, 114
 maximum, 114
 Psychometric Chroma, 115
 maximum, 115
 Psychometric Chroma, 116
 maximum, 116
 Psychometric Hue Angle, 113, 114, 115, 116, 117

PWinGravity, 358

Q

QLength, **17**
 QueryFont, 243, 451, 453
 QueryKeymap, 451, 453
 QueuedAfterFlush, 233
 QueuedAfterReading, 233
 QueuedAlready, 233

R

RaiseLowest, 51, 52
 Read-only colormap cells, 89
 allocating, 89
 read-only colormap cells, 90
 Read-only colormap cells:
 allocating, 90, 91
 Read/write colormap cells, 89
 allocating, 92
 Read/write colormap planes:
 allocating, 93
 Rectangle:
 filling, 158
 Rectangle, **479**
 RectangleIn, 408
 RectangleOut, 408
 RectanglePart, 408
 Rectangles:
 drawing, 154
 Redirecting control, **479**
 Region, 403
 ReleaseByFreeingColormap, 374
 ReparentNotify, 184, 197, 201, 217, **222**
 ReplayKeyboard, 256, 257, 258
 ReplayPointer, 256, 257, 258
 Reply, **479**
 Request, **479**
 Requests, **197**
 ResizeRedirect, 226
 ResizeRedirectMask, 43, 46, 53, 200, 232
 ResizeRequest, 43, 46, 197, 224, **226**, 232
 Resource, **479**
 Resource IDs, 2
 Cursor, 2
 Font, 2
 GContext, 2
 Pixmap, 2
 Window, 2
 Resource IDs, 26
 freeing, 33, 54, 55
 Resource IDs, 467

ResourceName, 392
 RetainPermanent, 26, 27, 190
 RetainTemporary, 26, 27, 190
 RevertToNone, 259, 260
 RevertToParent, 259, 260
 RevertToPointerRoot, 259, 260
 RGB values, **479**
 Root, 127, **480**
 RootWindow, **17**, 302
 RootWindowOfScreen, **25**

S

Save set, **480**
 Save Unders, 38
 Scanline, **480**
 order, **480**
 Screen, 1, 8, 9, 10, 21, 22, 23, 24, 25, 445, **480**
 structure, 480
 ScreenCount, **17**
 ScreenFormat, 445
 ScreenNumberOfCCC, **102**
 ScreenOfDisplay, **13**
 ScreenSaverActive, 191
 ScreenSaverReset, 191, 192
 Screen White Point, 111
 ScreenWhitePointOfCCC, **102**
 select, 30
 Selection, 70
 getting the owner, 71
 setting the owner, 71
 converting, 72
 Selection, **480**
 SelectionClear, 71, 197, 200, 227, **229**
 SelectionNotify, 72, 197, 200, 227, **230**, 239
 SelectionRequest, 71, 72, 197, 200, 227, **229**
 SendEvent, 198, 439
 Serial Number, 243
 Server:
 grabbing, 189
 Server, **480**
 grabbing, **481**
 ServerVendor, **17**
 setlocale, 273, 274, 275, 476, 477
 SetModeDelete, 185
 SetModeInsert, 185
 Shift, 268, 272, 400
 ShiftMask, 206, 209, 249, 253
 Shift sequence, **481**
 short, 66, 68, 69, 457
 Sibling, **481**
 Source, **129**
 SouthEastGravity, 36, 59, 403

SouthGravity, 36, 59
 SouthWestGravity, 36, 59, 403
 special, 6
 Stacking order, 2, **481**
 Standard Colormaps, 375
 State-dependent encoding, **481**
 StateHint, 355
 State-independent encoding, **481**
 StaticColor, 31, 32, 80, 86, **481**
 StaticGravity, 37, 59
 StaticGray, 31, 32, 76, 80, 86, 477, **481**
 Status, 3, 85, **481**
 StatusDoneCallback, **337**
 StatusDrawCallback, **337**
 StatusStart, 337
 StatusStartCallback, **336**

<

<stdio.h>, 457

S

Stipple, **481**
 StippleShape, 140, 141
 StringConversionCallback, **330**
 STRING encoding, **481**
 String Equivalence, **481**
 Strings:
 drawing, 175
 strlen, 392
 strtok, 276
 StructureNotify, 217, 218, 220, 221, 222, 223
 StructureNotifyMask, 200, 217, 218, 219, 220, 221, 222
 SubstructureNotify, 217, 218, 220, 221, 222, 223
 SubstructureNotifyMask, 200, 201, 217, 218, 219, 220, 221, 222, 345
 SubstructureRedirectMask, 38, 43, 46, 48, 49, 50, 51, 52, 53, 200, 224, 225, 226, 232, 345
 Success, 68, 346, 348, 349
 SyncBoth, 256, 257
 SyncHandle, 455
 SyncKeyboard, 256, 257, 258
 SyncPointer, 256, 257, 258

T

Text:
 drawing, 173
 this, 6
 Tile, 2
 mode, 33

pixmaps, 33
 Tile, **482**
 TileShape, 140, 141
 Time, **248**
 Timestamp, **482**
 TopIf, 46, 47, 48
 True, **4**, 23, 29, 38, 43, 59, 61, 62, 68, 93, 94, 97,
 106, 107, 109, 123, 129, 148, 149, 163, 166, 184,
 198, 200, 203, 206, 208, 216, 219, 221, 222, 223,
 227, 229, 232, 234, 235, 236, 237, 238, 239, 240,
 242, 250, 254, 266, 274, 281, 287, 291, 292, 311,
 312, 315, 338, 348, 356, 387, 388, 389, 390, 393,
 399, 407, 434, 440, 442, 454
 TrueColor, 31, 32, 80, 86, **482**
 Type, **482**

U

Ungrabbing:
 pointer, 250
 buttons, 253
 keyboard, 254
 keys, 256
 UngrabKeyboard, 255
 UngrabPointer, 251
 UnlockDisplay, **451**
 UnmapGravity, 37, 59, 223
 UnmapNotify, 37, 45, 197, 201, 207, 211, 217,
222, 223, 345
 UnmapNotify Event, 45
 UnmapWindow, 184, 185
 unsigned, 322, 326, 439, 457
 Unsorted, 144, 145
 UrgencyHint, 355, 357
 USPosition, 358
 USSize, 358

V

Value, 118
 maximum, 118
 Value, 119
 maximum, 119
 minimum, 119
 VendorRelease, **18**
 Vertex, 465, **466**
 VertexCurved, **466**, 467
 VertexDontDraw, **466**, 467
 VertexDrawLastPoint, 465
 VertexEndClosed, **466**, 467
 VertexRelative, **466**
 VertexStartClosed, 465, **466**, 467
 Viewable, **482**

VisibilityChangeMask, 200, 223
 VisibilityFullyObscured, 223, 224
 VisibilityNotify, 39, 197, 207, 211, 217, **223**
 VisibilityPartiallyObscured, 223, 224
 VisibilityUnobscured, 223, 224
 Visible, **482**
 Visual, **31**, 32, 58, 412, 445
 VisualAllMask, 410
 VisualBitsPerRGBMask, 410
 VisualBlueMaskMask, 410
 Visual Classes:
 GrayScale, 31
 PseudoColor, 31
 StaticColor, 31
 StaticGray, 31
 TrueColor, 31
 VisualClassMask, 410
 VisualColormapSizeMask, 410
 VisualDepthMask, 410
 VisualGreenMaskMask, 410
 VisualID, 450
 VisualIDMask, 410
 VisualNoMask, 410
 VisualOfCCC, **102**
 VisualRedMaskMask, 410
 VisualScreenMask, 410
 Visual Type, **31**
 VoidSymbol, 267

W

wctomb, 276
 WestGravity, 36, 59
 WhenMapped, 23, 37, 53, 59, 215
 WhitePixel, 10, **11**
 WhitePixelOfScreen, **21**
 White point, 85
 White point adjustment, 85
 client data, 104
 procedure, 104
 setting in Color Conversion Context, 104
 Whitespace, **482**
 WidthMMOfScreen, **24**
 WidthOfScreen, **24**
 WidthValue, 402
 WindingRule, 133, 140, 404
 Window, **2**
 RootWindow, 17
 XRootWindow, 17
 Window, 26, 33
 attributes, 33
 mapping, 33
 InputOnly, 39

background, 54
 defining the cursor, 56
 undefining the cursor, 56
 clearing, 148
 managers, 189
 Window, 321
 name, 352
 icon name, 354
 determining location, 401
 Window, 450, 452
 determining location, 464
 IDs, 467
 InputOnly, **476**
 InputOutput, **476**
 parent, **478**
 root, **480**
 gravity, **482**
 manager, **483**
 WindowGroupHint, 355
 Windows, 468
 WithdrawnState, 356

X

X10 compatibility:

XDraw, 465
 XDrawDashed, 465
 XDrawFilled, 465
 XDrawPatterned, 465
 XDrawTiled, 465
 XDraw, 466
 XDrawDashed, 466
 XDrawPatterned, 466
 XDrawFilled, 467
 XDrawTiled, 467

<

<X11/cursorfont.h>, 4
 <X11/keysymdef.h>, 4, 267, 398
 <X11/keysym.h>, 4, 267
 <X11/X10.h>, 4, 466
 <X11/Xatom.h>, 4, 63, 166, 343, 375
 <X11/Xcms.h>, 3, 79
 <X11/X.h>, 2, 3, 129, 197, 200
 <X11/Xlib.h>, 3, 4, 9, 79, 198, 341, 411, 435, 445, 446
 <X11/Xlibint.h>, 4, 434, 448, 449, 451
 <X11/Xproto.h>, 4, 216, 243, 449, 450, 451
 <X11/Xprotostr.h>, 4
 <X11/Xresource.h>, 3, 379
 <X11/Xutil.h>, 3, 355, 357, 362, 367, 402, 403,

410, 413, 418, 460

X

XActivateScreenSaver, **192**
 XAddConnectionWatch, **29**
 XAddExtension, **436**
 XAddHost, **194**
 XAddHosts, **194**
 XAddPixel, **414**
 XAddToExtensionList, 445, **446**
 XAddToSaveSet, **185**, 186
 XAllocClassHint, **362**
 XAllocColor, 87, **89**, 90, 92, 95, 111
 XAllocColorCells, 86, 87, **92**, 93, 95
 XAllocColorPlanes, 86, 87, **93**, 94, 95, 375
 XAllocIconSize, **367**
 XAllocID, **446**, 452
 XAllocIDs, **446**
 XAllocNamedColor, 83, 87, **91**, 92, 95

—

_XAllocScratch, **456**

X

XAllocSizeHints, **358**
 XAllocStandardColormap, **374**

—

_XAllocTemp, **456**, 457

X

XAllocWMHints, **355**
 XAllowEvents, 248, 250, 254, **256**, 257, 258
 XAllPlanes, **10**
 XAnyEvent, **198**
 XAppendVertex, 465
 XArc, **151**
 XAssocTable, 467, 468, 469
 XAutoRepeatOff, **264**
 XAutoRepeatOn, **264**
 XBaseFontNameListOfFontSet, 287, **290**
 XBell, **264**
 XBitmapBitOrder, **19**
 XBitmapPad, **19**
 XBitmapUnit, **19**
 XBlackPixel, **11**
 XBlackPixelOfScreen, **21**
 XBufferOverflow, 340

XButtonEvent, **204**
 XButtonPressedEvent, **204**, 206
 XButtonReleasedEvent, **204**, 206
 Xcalloc, 456
 XCellsOfScreen, **21**
 XChangeActivePointerGrab, 203, **251**
 XChangeGC, **134**, 135, 145, 452
 XChangeKeyboardControl, 261, **263**, 264
 XChangeKeyboardMapping, 221, **270**
 XChangePointerControl, **266**
 XChangeProperty, 15, **69**, 228, 229
 XChangeSaveSet, **185**
 XChangeWindowAttributes, 33, **53**, 54, 87, 187, 227, 231
 XChar2b, **161**, 171, 172, 175
 XCharStruct, **161**, 163, 164, 169, 170, 171, 172
 XCheckIfEvent, 234, **235**
 XCheckMaskEvent, **237**, 238
 XCheckTypedEvent, **238**
 XCheckTypedWindowEvent, **238**, 239
 XCheckWindowEvent, **236**, 237
 XCirculateEvent, **217**
 XCirculateRequestEvent, **224**
 XCirculateSubwindows, **51**, 52, 217, 224
 XCirculateSubwindowsDown, **52**, 217, 224
 XCirculateSubwindowsUp, **51**, 52, 217, 224
 XClassHint, **362**, 363, 368, 369, 370, 371
 XClearArea, **147**, 148
 XClearVertexFlag, 465
 XClearWindow, 53, **148**
 XClientMessageEvent, **227**
 XClipBox, **405**
 XCloseDisplay, **26**, 437
 XCloseIM, 303, 307, **309**, 314, 322
 XCloseOM, **279**, 280
 XcmsAddColorSpace, 107, 110, **120**, 121
 XcmsAddFunctionSet, 120, **124**, 125
 XcmsAllocColor, **90**, 110
 XcmsAllocNamedColor, 83, **91**, 92
 XcmsCCC, 101, 125
 XcmsCCCOFColormap, **100**
 XcmsCIELab, **81**, 110
 XcmsCIELabClipab, 108
 XcmsCIELabClipL, 108
 XcmsCIELabClipLab, 108
 XcmsCIELabFormat, 81, 124
 XcmsCIELabQueryMaxC, 108, **113**, 114
 XcmsCIELabQueryMaxL, **114**
 XcmsCIELabQueryMaxLC, **114**, 115
 XcmsCIELabQueryMinL, **115**
 XcmsCIELabToCIEXYZ, 124
 XcmsCIELabWhiteShiftColors, 110
 XcmsCIELuv, **81**, 110
 XcmsCIELuvClipL, 108
 XcmsCIELuvClipLuv, 108
 XcmsCIELuvClipuv, 108
 XcmsCIELuvFormat, 81, 124
 XcmsCIELuvQueryMaxC, 108, **116**
 XcmsCIELuvQueryMaxL, **116**
 XcmsCIELuvQueryMaxLC, **116**, 117
 XcmsCIELuvQueryMinL, **117**
 XcmsCIELuvToCIEuvY, 124
 XcmsCIELuvWhiteShiftColors, 110
 XcmsCIEuvY, **81**, 110, 111
 XcmsCIEuvYFormat, 81, 103, 124
 XcmsCIEuvYToCIELuv, 124
 XcmsCIEuvYToCIEXYZ, 124
 XcmsCIEuvYToTekHVC, 124
 XcmsCIExyY, **81**
 XcmsCIExyYFormat, 81, 103, 124
 XcmsCIExyYToCIEXYZ, 124
 XcmsCIEXYZ, **81**, 106, 107, 110
 XcmsCIEXYZFormat, 81, 103, 124
 XcmsCIEXYZToCIELab, 124
 XcmsCIEXYZToCIEuvY, 124
 XcmsCIEXYZToCIExyY, 124
 XcmsCIEXYZToRGBi, 124
 XcmsClientWhitePointOfCCC, **102**
 XcmsColor, **80**, 92, 96, 97, 99, 100, 106, 107, 109, 120, 122, 123
 XcmsColorFormat, 81
 XcmsColorSpace, 121, 122, 123, 124, 125
 XcmsColorSpaces, 121
 XcmsCompressionProc, **107**
 XcmsConvertColors, **106**
 XcmsCreateCCC, **104**, 105
 XcmsDefaultCCC, **101**
 XcmsDisplayOfCCC, **101**
 XcmsFailure, 85, 89, 90, 103, 104, 106, 114, 115, 116, 117, 126
 XcmsFormatOfPrefix, 81, **121**, 122, 124
 XcmsFreeCCC, 101, 104, **105**
 XcmsFunctionSet, 125, 126
 XcmsInitFailure, 126
 XcmsInitNone, 126
 XcmsInitSuccess, 126
 XcmsLookupColor, 83, **88**, 89, 92
 XcmsPad, **81**
 XcmsParseStringProc, **122**
 XcmsPerScrnInfo, 125, 126
 XcmsPrefixOfFormat, 81, **121**, 122, 124
 XcmsQueryBlack, **111**
 XcmsQueryBlue, **112**
 XcmsQueryColor, 97, **99**
 XcmsQueryColors, 97, **99**, 100
 XcmsQueryGreen, **112**

XcmsQueryRed, **112**, 113
 XcmsQueryWhite, **113**
 XcmsRGB, **81**, 83, 110, 111
 XcmsRGBFormat, 81, 90, 92, 106, 124
 XcmsRGBi, **81**, 83, 106, 107, 110, 111
 XcmsRGBiFormat, 81, 106, 124
 XcmsRGBiToCIEXYZ, 124
 XcmsRGBiToRGB, 124
 XcmsRGBToRGBi, 124
 XcmsScreenFreeProc, **126**
 XcmsScreenInitProc, **125**
 XcmsScreenNumberOfCCC, **102**
 XcmsScreenWhitePointOfCCC, **102**
 XcmsSetCCCOfColormap, **101**
 XcmsSetCompressionProc, **103**
 XcmsSetWhiteAdjustProc, **104**
 XcmsSetWhitePoint, **103**
 XcmsStoreColor, **96**, 97
 XcmsStoreColors, **97**
 XcmsSuccess, 85, 89, 97, 121, 126
 XcmsSuccessWithCompression, 85, 89
 XcmsTekHVC, **81**, 110
 XcmsTekHVCClipC, 109
 XcmsTekHVCClipV, 109
 XcmsTekHVCClipVC, 109
 XcmsTekHVCFormat, 81, 124
 XcmsTekHVCQueryMaxC, 111, **117**, 118
 XcmsTekHVCQueryMaxV, **118**
 XcmsTekHVCQueryMaxVC, **118**, 119
 XcmsTekHVCQueryMaxVSamples, **119**
 XcmsTekHVCQueryMinV, **119**, 120
 XcmsTekHVCToCIEuvY, 124
 XcmsTekHVCWhiteShiftColors, 110
 XcmsUndefinedFormat, 81, 88, 91, 103, 121
 XcmsVisualOfCCC, **102**
 XcmsWhiteAdjustProc, **109**
 XCNOENT, 419
 XCNOMEM, 419
 XColor, 77, **80**, 83, 90, 95, 96, 97, 98, 99
 XColormapEvent, **227**
 XComposeStatus, 400
 XCompoundTextStyle, 347
 XConfigureEvent, **218**
 XConfigureRequestEvent, **225**
 XConfigureWindow, 45, **47**, 48, 218, 220, 225, 226
 XConnectionNumber, **11**
 XContextDependentDrawing, **292**
 XContextualDrawing, 281, **291**, 292
 XConvertCase, **397**, 398
 XConverterNotFound, 347, 348
 XConvertSelection, **72**, 229
 XCopyArea, 133, 146, **148**, 149, 200, 216

X_CopyArea, 216
 XCopyColormapAndFree, **86**, 87
 XCopyGC, **134**
 XCopyPlane, 73, 133, 146, **149**, 150, 200, 216
 X_CopyPlane, 216
 XCreateAssocTable, **468**
 XCreateBitmapFromData, **418**
 XCreateColormap, **86**, 95, 374
 XCreateFontCursor, **74**, 433
 XCreateFontSet, 275, 284, 286, **287**, 288, 289, 290, 291, 294, 296, 298, 299, 349, 350
 XCreateGC, 127, **134**, 135, 145, 216, 404, 452
 XCreateGlyphCursor, **74**, 75
 XCreateIC, 275, 303, **316**, 319, 323
 XCreateImage, **412**, 413, 414
 XCreateOC, 275, **282**, 284, 287
 XCreatePixmap, **73**, 452
 XCreatePixmapCursor, **75**, 76
 XCreatePixmapFromBitmapData, **417**, 418
 XCreateRegion, **404**
 XCreateSimpleWindow, 39, **41**, 42, 187, 219
 XCreateWindow, 33, **39**, 40, 41, 53, 87, 187, 219, 231
 XCreateWindowEvent, **219**
 XCrossingEvent, **207**

—

_Xdebug, 242

X

XDefaultColormap, **11**
 XDefaultColormapOfScreen, **22**
 XDefaultDepth, **12**
 XDefaultDepthOfScreen, **22**
 XDefaultGC, **12**
 XDefaultGCOfScreen, **22**
 XDefaultRootWindow, **13**
 XDefaultScreen, 8, 9, **13**
 XDefaultScreenOfDisplay, **13**
 XDefaultString, **349**
 XDefaultVisual, **14**
 XDefaultVisualOfScreen, **22**
 XDefineCursor, 41, **56**
 XDeleteAssoc, **469**
 XDeleteContext, **419**
 XDeleteModifiermapEntry, **271**
 XDeleteProperty, **70**, 229
 XDestroyAssocTable, **469**
 XDestroyIC, 314, **316**, 322
 XDestroyImage, 413, **414**
 XDestroyOC, **282**, 285, 286

XDestroyRegion, **404**
 XDestroySubwindows, **42**, 219
 XDestroyWindow, **42**, 219
 XDestroyWindowEvent, **220**
 XDirectionalDependentDrawing, 281, **291**
 XDisableAccessControl, **196**
 XDisplayCells, 10, **14**
 XDisplayHeight, 10, **20**
 XDisplayHeightMM, 10, **20**
 XDisplayKeycodes, **268**, 269, 270
 XDisplayMotionBufferSize, **241**
 XDisplayName, **246**
 XDisplayOfIM, **310**
 XDisplayOfOM, **279**
 XDisplayOfScreen, **23**
 XDisplayPlanes, 10, **14**
 XDisplayString, **15**
 XDisplayWidth, 10, **20**
 XDisplayWidthMM, 10, **21**
 XDoesBackingStore, **23**
 XDoesSaveUnders, **23**
 xDoSomethingReply, **450**
 xDoSomethingReq, **449**, 452
 XDraw, 465, **466**
 XDrawArc, 132, **156**, 157
 XDrawArcs, 15, **156**, 157
 XDrawDashed, 465, 466
 XDrawFilled, 465, **467**
 XDrawImageString, 173, **176**, 177, 178, 296
 XDrawImageString16, 176, **177**, 178
 XDrawLine, 132, 147, **152**, 154
 XDrawLines, 15, 152, **153**, 154, 465
 XDrawPatterned, 465, 466
 XDrawPoint, 147, **151**, 152, 447
 XDrawPoints, 15, 151, **152**
 XDrawRectangle, 132, 147, **154**, 155
 XDrawRectangles, 15, 154, **155**
 XDrawSegments, 15, 132, 152, **153**, 154, 465
 XDrawString, **175**, 176, 296
 XDrawString16, **175**, 176
 XDrawText, 132, **173**, 174, 175, 296
 XDrawText16, 132, 173, **174**, 175
 XDrawTiled, 465, 467
 XDataObject, 445
 XEHeadOfExtensionList, **445**
 XEmptyRegion, **407**
 XEnableAccessControl, **196**
 XEnterWindowEvent, **207**, 209, 210
 XEqualRegion, **407**
 XErrorEvent, 243, 442, 444
 XESetBeforeFlush, **444**
 XESetCloseDisplay, **436**, 437
 XESetCopyGC, **437**, 438, 444

XESetCreateFont, **438**, 439
 XESetCreateGC, **437**
 XESetError, **442**
 XESetErrorString, **443**
 XESetEventToWire, 439, **441**
 XESetFlushGC, **444**
 XESetFreeFont, **439**
 XESetFreeGC, **438**
 XESetPrintErrorValues, **443**
 XESetWireToError, **441**, 442, 444
 XESetWireToEvent, 439, **440**
 XEvent, **198**, 199, 234, 235, 236, 237, 238, 239, 240, 338, 439
 xEvent, 440
 XEvent, 440
 xEvent, 441
 XEvent, 441, 442, 444
 XEventMaskOfScreen, **23**
 XEventsQueued, 17, **233**
 XExposeEvent, **215**
 XExtCodes, **435**, 436, 457, 458
 XExtData, **445**
 XExtendedMaxRequestSize, **15**
 XExtentsOfFontSet, 275, **292**, 293
 XFetchBuffer, **409**
 XFetchBytes, 408, **409**
 XFetchName, **353**
 XFillArc, 132, 147, **160**, 161
 XFillArcs, 15, 133, **160**, 161
 XFillPolygon, 15, 132, 133, **159**, 160
 XFillRectangle, 132, 147, **158**, 159
 XFillRectangles, 15, **158**, 159
 XFilterEvent, **338**
 XFindContext, **419**, 420
 XFindOnExtensionList, **446**
 XFlush, **232**
 XFlushGC, **136**

—

_XFlushGCCache, **447**

X

XFocusChangeEvent, **211**
 XFocusInEvent, **211**, 212, 213, 214
 XFocusOutEvent, **211**, 212, 213, 214
 XFontProp, **161**
 XFontSet, 275, 278, 282, 287, 288, 289, 290, 292, 293, 294, 296, 298, 299, 326, 349, 470
 XFontSetExtents, 291, **292**, 293
 XFontsOfFontSet, 284, **289**
 XFontStruct, **161**, 163, 165, 166, 169, 170, 173,

286, 289, 290, 291, 445
 XFontStructs, 289
 XFontStructSet, 286, 290
 XForceScreenSaver, **191**, 192
 XFree, 12, 18, **25**, 26, 30, 58, 65, 68, 188, 195, 242, 269, 277, 281, 310, 313, 315, 317, 319, 330, 348, 350, 353, 355, 357, 358, 362, 363, 365, 366, 367, 368, 374, 385, 409, 411, 416, 456
 XFreeColormap, **87**, 227
 XFreeColors, 86, **94**, 95
 XFreeCursor, 39, **77**, 78
 XFreeExtensionList, **435**
 XFreeFont, 75, **166**, 439
 XFreeFontInfo, 165, **168**
 XFreeFontNames, **167**, 168
 XFreeFontPath, **189**
 XFreeFontSet, 286, 289, 290, **291**, 293
 XFreeGC, **136**
 XFreeModifiermap, **271**, 272
 XFreePixmap, **73**, 74, 416, 418
 XFreeStringList, 289, 349, **350**, 372

—

_XFreeTemp, **456**

X

XGContextFromGC, **136**, 165
 XGCValues, **127**, 135
 xGenericReply, 451
 XGeometry, **464**
 XGetAtomName, **65**, 66
 XGetAtomNames, **65**, 66
 XGetClassHint, **363**
 XGetCommand, **371**, 372
 XGetDefault, 464, **465**
 XGetErrorDatabaseText, **245**, 246, 275
 XGetErrorText, **245**, 275, 443
 XGetFontPath, **188**, 189
 XGetFontProperty, **166**
 XGetGCValues, **135**
 XGetGeometry, **59**, 60
 XGetIconName, **354**, 355
 XGetIconSizes, **367**, 368
 XGetICValues, 308, **318**, 319, 325
 XGetImage, **180**, 181, 182, 412, 413, 414
 XGetIMValues, 304, 306, 308, **310**, 312, 315, 320, 322, 323, 324, 327
 XGetInputFocus, **260**, 261
 XGetKeyboardControl, **263**
 XGetKeyboardMapping, **269**, 270
 XGetModifierMapping, **272**

XGetMotionEvents, 204, **241**, 242
 XGetNormalHints, **460**, 461, 462
 XGetOCValues, **283**, 284, 285, 286
 XGetOMValues, **279**, 280, 285
 XGetPixel, **413**
 XGetPointerControl, **266**, 267
 XGetPointerMapping, **265**, 266
 XGetRGBColormap, 463
 XGetRGBColormaps, 326, **377**
 XGetScreenSaver, **192**
 XGetSelectionOwner, **71**, 72
 XGetSizeHints, **462**
 XGetStandardColormap, **463**
 XGetSubImage, **181**, 182, 183
 XGetTextProperty, **351**, 352, 354, 373
 XGetTransientForHint, **364**
 XGetVisualInfo, **410**, 411
 XGetWindowAttributes, **58**, 59
 xGetWindowAttributesReply, 454
 XGetWindowProperty, **66**, 67, 68, 69, 229
 XGetWMClientMachine, **372**, 373
 XGetWMColormapWindows, **366**, 367
 XGetWMHints, **357**
 XGetWMIconName, **354**
 XGetWMName, **352**
 XGetWMNormalHints, **360**, 361, 460
 XGetWMProtocols, **365**
 XGetWMSizeHints, **361**, 362, 462
 XGetZoomHints, **461**, 462
 XGrabButton, 203, **251**, 252, 253, 257
 XGrabKey, **255**, 256, 257
 XGrabKeyboard, 214, 248, **253**, 254, 255, 256, 257
 XGrabPointer, 207, 210, 248, **249**, 250, 251, 252, 257
 XGrabServer, **189**
 XGraphicsExposeEvent, 198, **216**, 217
 XGravityEvent, **220**
 XHeightMMOfScreen, **24**
 XHeightOfScreen, **24**
 XHostAddress, **193**
 XIC, 275, 303, 304
 XICCEncodingStyle, **347**
 XIconifyWindow, **345**
 XIconSize, 343, **367**
 XID, **4**
 XIfEvent, 234, **235**
 XIM, 273, 275, 302, 303, 338
 XIMAbsolutePosition, **336**
 XImage, **178**, 180, 181, 182, 411, 412, 414
 XImageByteOrder, **19**
 XIMBackwardChar, 331, **336**
 XIMBackwardWord, **336**

XIMCallback, 314, 321, 322, 327, **328**
 XIMCaretDirection, 330, 331, **335**
 XIMCaretDown, **336**
 XIMCaretStyle, **335**
 XIMCaretUp, **336**
 XIMDontChange, **336**
 XIMFeedback, 315, 334, 338
 XIMForwardChar, 331, **336**
 XIMForwardWord, **336**
 XIMHighlight, **334**
 XIMHotKeyStateOFF, 324
 XIMHotKeyStateON, 323, 324
 XIMHotKeyTriggers, 323, 324
 XIMInitialState, 317, **323**, 327
 XIMLineEnd, 331, **336**
 XIMLineStart, **336**
 XIMNextLine, **336**
 XIMOfIC, **317**, 318
 XIMPreeditArea, 304, , **313**, 325
 XIMPreeditCallbacks, **313**, 327
 XIMPreeditCaretCallbackStruct, **335**
 XIMPreeditDisable, 326, 327
 XIMPreeditDrawCallbackStruct, 315, **332**
 XIMPreeditEnable, **326**, 327
 XIMPreeditNone, **313**
 XIMPreeditNothing, **313**
 XIMPreeditPosition, **313**, 325
 XIMPreeditStateNotifyCallbackStruct, **327**
 XIMPreeditUnknown, 326
 XIMPreserveState, 317, 323
 XIMPreviousLine, **336**
 XIMPrimary, **334**
 XIMProc, **328**
 XIMResetState, 323
 XIMReverse, **334**
 XIMSecondary, **334**
 XIMStatusArea, 304, **313**, **314**, 325
 XIMStatusCallbacks, **313**, **314**, 328
 XIMStatusDataType, **337**
 XIMStatusDrawCallbackStruct, **337**
 XIMStatusNone, **313**, **314**
 XIMStatusNothing, **313**, **314**
 XIMStringConversionCallbackStruct, 307, **330**,
 331
 XIMStringConversionOperation, 331
 XIMStringConversionPosition, 330
 XIMStringConversionRetrieval, 330, 331
 XIMStringConversionSubstitution, 330, 331
 XIMStringConversionText, 322, 330
 XIMStyle, **313**
 XIMStyles, 304, **313**
 XIMTertiary, **334**
 XIMText, 305, 315, 332, 333, 334, 338
 XIMUnderline, **334**
 XIMValuesList, 315
 XIMVisibleCenter, 333, **334**
 XIMVisibleToBackward, 333, **334**, 338
 XIMVisibleToCenter, 338
 XIMVisibleToForward, 333, **334**, 338
 XInitExtension, 435, **436**, 446, 457
 XInitImage, **179**
 XInitThreads, **28**
 XINPreserveState, **323**
 XInsertModifiermapEntry, **271**
 XInstallColormap, 38, 53, 80, **186**, 187, 227
 XInternalConnectionNumbers, **30**
 XInternAtom, 62, **64**, 65
 XInternAtoms, **65**
 XIntersectRegion, **405**
 XKeyboardControl, **261**, 263
 XKeyboardState, **263**
 XKeycodeToKeysym, **396**, 397
 XKeyEvent, **204**
 XKeymapEvent, **214**
 XKeyPressedEvent, **204**, 206, 396, 400
 XKeyReleasedEvent, **204**, 206, 396, 400
 XKeysymToKeycode, **397**
 XKeysymToString, **398**
 XKillClient, **190**, 375
 XLastKnownRequestProcessed, **16**
 XLeaveWindowEvent, **207**, 209, 210
 XLFD, **483**
 XlibSpecificationRelease, **3**
 XListDepths, **12**
 XListExtensions, 434, **435**
 XListFonts, **167**
 XListFontsWithInfo, **167**, 168
 XListHosts, **194**, 195
 XListInstalledColormaps, **187**, 188
 XListPixmapFormats, **18**
 XListProperties, **68**
 XLoadFont, **164**, 165, 166
 XLoadQueryFont, 161, **165**, 166, 168, 439
 XLocaleNotSupported, 274, 347, 348
 XLocaleOfFontSet, **290**
 XLocaleOfIM, 275, **310**
 XLocaleOfOM, 275, **279**, 280
 XLockDisplay, **28**, 29, 234
 XLookupAssoc, **468**, 469
 XLookupBoth, 340
 XLookupChars, 340
 XLookupColor, 83, **87**, 88
 XLookupKeySym, 340
 XLookupKeysym, **396**
 XLookupNone, 340
 XLookupString, **400**, 401

XLowerWindow, **50**, 51, 218, 225
 XMakeAssoc, **468**
 Xmalloc, 456
 XMapEvent, **221**
 XMappingEvent, **221**
 XMapRaised, **44**, 218, 220, 225
 XMapRequestEvent, **226**
 XMapSubwindows, **44**, 220, 225
 XMapWindow, 33, 41, 42, **43**, 44, 220, 225, 226
 X_MapWindow, 452
 XMaskEvent, **237**
 XMatchVisualInfo, 12, **411**
 XMaxCmapsOfScreen, **24**
 XMaxRequestSize, **15**
 XmbDrawImageString, **298**, 299
 XmbDrawString, 291, **298**
 XmbDrawText, 275, 296, **297**, 298
 XmbLookupString, 275, 303, 304, 305, 306, 309, **339**, 340
 XmbPerCharExtents, 292
 XmbResetIC, 306, **317**, 323, 327
 XmbSetWMProperties, 275, **368**, 369, 370
 XmbTextEscapement, **293**, 294
 XmbTextExtents, 275, 292, **293**, 294, 296, 298, 299
 XmbTextItem, **296**
 XmbTextListToTextProperty, 275, **347**
 XmbTextPerCharExtents, 291, 294, **295**, 296, 298
 XmbTextPropertyToTextList, 275, **348**, 349, 350, 385
 XMinCmapsOfScreen, **25**
 XModifierKeymap, **270**, 271, 272
 XMotionEvent, **204**
 XMoveResizeWindow, **49**, 50, 218, 220, 225, 226, 452
 XMoveWindow, **48**, 218, 225, 452
 XNArea, 304, 313, 314, **325**, **341**
 XNAreaNeeded, 304, 313, 314, **325**, **341**
 XNBackground, **326**, **341**
 XNBackgroundPixmap, 326, **341**
 XNBaseFontName, 284, 285, **342**
 XNClientWindow, **321**, **341**
 XNColormap, **326**, **341**
 XNContextualDrawing, 280, 281, **342**
 XNCursor, 326, **341**
 XNDefaultString, 285, **342**
 XNDestroyCallback, 307, 312, 314, 322, **341**
 XNDirectionalDependentDrawing, 280, 281, **342**
 XNegative, 402
 XNewModifiermap, **271**
 XNextEvent, 3, 232, **233**, 234, 338
 XNextRequest, **16**
 XNFilterEvents, 305, 316, 318, **321**, **341**
 XNFocusWindow, 313, **321**, 325, **341**
 XNFontInfo, 286, **342**
 XNFontSet, 304, **326**, **341**
 XNForeground, **326**, **341**
 XNGeometryCallback, **321**, **341**
 XNHotKey, 323, 341, **342**
 XNHotKeyState, 323, 324, 341, **342**
 XNInputStyle, 304, 320, 325, **341**
 XNLineSpace, 326, **341**
 XNLineSpacing, 304
 XNMissingCharSet, 285, **342**
 XNoExposeEvent, **216**
 XNOMAutomatic, 286, 287, **342**
 XNoMemory, 347, 348
 XNoOp, **25**
 XNOrientation, 285, **342**
 XNPreeditAttributes, **324**, **341**
 XNPreeditCaretCallback, 313, **327**, **341**
 XNPreeditDoneCallback, 313, **327**, **341**
 XNPreeditDrawCallback, 313, **327**, **341**
 XNPreeditStartCallback, 313, **327**, **341**
 XNPreeditState, 308, 323, 326, 327, 341, **342**
 XNPreeditState., 308
 XNPreeditStateNotifyCallback, 308, 327, **341**
 XNQueryICValuesList, 306, 308, 312, 315, 322, 323, 324, 327, 341, **342**
 XNQueryIMValues, 315
 XNQueryIMValuesList, 312, 315, 341, **342**
 XNQueryInputStyle, 312, 320, **341**
 XNQueryOrientation, 280, 281, 285, **342**
 XNR6PreeditCallbackBehavior, 312, 315, 341, **342**
 XNRequiredCharSet, 280, **342**
 XNResetState, 317, 323, 327, 341, **342**
 XNResourceClass, 285, 286, 312, 314, **321**, **341**
 XNResourceName, 285, 286, 312, 314, **321**, **341**
 XNSeparatorofNestedList, 341
 XNSeparatorofNestedList :
 , @DEF@""
 XNSpotLocation, 313, **325**, **341**
 XNStatusAttributes, **324**, **341**
 XNStatusDoneCallback, 314, **328**, **341**
 XNStatusDrawCallback, 314, **328**, **341**
 XNStatusStartCallback, 314, **328**, **341**
 XNStdColormap, **326**, **341**
 XNStringConversion, 306, 307, 322, 341, **342**
 XNStringConversionCallback, 306, 307, 322, 341, **342**
 XNVaNestedList, 277, **341**
 XNVisiblePosition, 312, 315, 341, **342**
 XOC, 278, 282, 285, 286, 287
 XOffsetRegion, **405**
 XOM, 273, 275, 278, 280, 287, 291

XOMCharSetList, **280**, 285
 XOMFontInfo, 286
 XOMOfOC, **282**, 283
 XOMOrientation, 281
 XOMOrientation_Context, 281, 285
 XOMOrientation_LTR_TTB, 281, 285
 XOMOrientation_RTL_TTB, 281
 XOMOrientation_TTB_LTR, 281
 XOMOrientation_TTB_RTL, 281
 XOpenDisplay, **8**, 9, 13, 15, 31, 197, 246, 385
 XOpenIM, 275, 302, 307, **308**, 309
 XOpenOM, 275, **278**, 279
 XOrientation, 285
 XParseColor, 83, **88**
 XParseGeometry, **401**, 402, 403, 464
 XPeekEvent, **234**
 XPeekIfEvent, 234, **235**, 236
 XPending, 232, **233**
 Xpermalloc, **401**
 XPixmapFormatValues, 18
 XPlanesOfScreen, **25**
 XPoint, **151**, 154, 325
 XPointer, **4**, 277
 XPointerMovedEvent, **204**, 206
 XPointInRegion, **407**
 XPolygonRegion, **404**
 X Portable Character Set, **483**
 XProcessInternalConnection, **30**
 XPropertyEvent, **228**
 XProtocolRevision, **16**
 XProtocolVersion, **16**
 XPutBackEvent, **239**
 XPutImage, 15, **179**, 180, 412, 417
 XPutPixel, **413**
 XQLength, **17**, 233
 XQueryBestCursor, 74, **76**, 77
 XQueryBestSize, **140**, 141
 XQueryBestStipple, **141**, 142
 XQueryBestTile, **141**
 XQueryColor, **98**
 XQueryColors, **98**, 99
 XQueryExtension, **434**, 435
 XQueryFont, **165**, 166, 439
 XQueryKeymap, **264**, 265
 XQueryPointer, 60, **61**, 62, 204
 XQueryTextExtents, **171**, 172, 178
 XQueryTextExtents16, **171**, 172
 XQueryTree, **57**, 58

XRaiseWindow, 3, **50**, 218, 225

—

_XRead, 454, 456
 _XRead16, 454
 _XRead16Pad, 455
 _XRead32, 455

X

XReadBitmapFile, **415**, 416
 XReadBitmapFileData, **416**

—

_XReadPad, 455

X

XRebindKeysym, **400**, 401
 XRecolorCursor, 74, **77**
 XReconfigureWMWindow, **346**
 XRectangle, **151**, 292, 296, 325
 XRectangle., 325
 XRectangles, 296
 XRectInRegion, **407**, 408
 XRefreshKeyboardMapping, 222, **397**, 400
 XRegisterIMInstantiateCallback, 275, 307, **310**, 311
 XRemoveConnectionWatch, **29**
 XRemoveFromSaveSet, **186**
 XRemoveHost, **195**
 XRemoveHosts, **195**
 XReparentEvent, **222**
 XReparentWindow, **184**, 185, 220, 222
 xReply, 453

—

_XReply, 442, 443, **453**, 454, 456

X

xReq, 447, 450
 XResetScreenSaver, **192**
 XResizeRequestEvent, **226**
 XResizeWindow, **49**, 218, 220, 225, 226
 XResourceManagerString, **384**, 385
 xResourceReq, **450**
 XRestackWindows, **52**, 53, 218, 225
 XrmBindingList, 383
 XrmBindLoosely, 383

XrmBindTightly, 383
 XrmCombineDatabase, **387**
 XrmCombineFileDatabase, **386**, 387
 XrmDatabase, 275, **383**
 XrmDestroyDatabase, **386**
 XrmEnumAllLevels, 392, 393
 XrmEnumerateDatabase, **392**, 393
 XrmEnumOneLevel, 392, 393
 XrmGetDatabase, **386**
 XrmGetFileDatabase, 275, **384**, 385
 XrmGetResource, **388**, 389, 390
 XrmGetStringDatabase, 275, **385**
 XrmInitialize, **384**
 XrmLocaleOfDatabase, 275, **385**, 386
 XrmMergeDatabases, **387**, 388
 XrmOptionDescRec, **394**
 XrmOptionDescRec.value, 394
 XrmOptionKind, **393**
 XrmoptionNoArg, 395
 XrmoptionSkipArg, 394
 XrmoptionSkipNArgs, 394
 XrmParseCommand, 393, **394**
 XrmPermStringToQuark, **381**, 382
 XrmPutFileDatabase, 275, **384**
 XrmPutLineResource, **392**
 XrmPutResource, 388, **390**
 XrmPutStringResource, **391**
 XrmQGetResource, **388**, 390
 XrmQGetSearchList, **389**, 390
 XrmQGetSearchResource, 388, **389**, 390
 XrmQPutResource, 388, 390, **391**, 392
 XrmQPutStringResource, **391**, 392
 XrmQuark, 381
 XrmQuarkToString, **382**
 XrmSetDatabase, **386**, 465
 XrmStringToBindingQuarkList, **383**, 390, 391
 XrmStringToQuark, **381**, 382
 XrmStringToQuarkList, **382**, 383
 XrmUniqueQuark, **381**
 XrmValue, 383, **384**, 392
 XRootWindow, **17**
 XRootWindowOfScreen, **25**
 XRotateBuffers, **409**, 410
 XRotateWindowProperties, **70**, 228, 229
 XSaveContext, **418**, 419, 420
 XScreenCount, **17**
 XScreenNumberOfScreen, **23**
 XScreenOfDisplay, **13**
 XScreenResourceString, **385**
 XSegment, **151**, 154
 XSelectInput, **231**, 232
 XSelectionClearEvent, **229**
 XSelectionEvent, **230**

XSelectionRequestEvent, **229**

—

_XSend, 452, 453, 456

X

XSendEvent, 227, 230, **239**, 240
 XServerInterpretedAddress, **193**
 XServerVendor, **17**
 XSetAccessControl, **196**
 XSetAfterFunction, **242**
 XSetArcMode, **145**, 146
 XSetBackground, **137**, 452
 XSetClassHint, **362**, 363, 371
 XSetClipMask, **144**, 145
 XSetClipOrigin, **143**, 144
 XSetClipRectangles, 15, 133, 135, **144**, 145
 XSetCloseDownMode, **26**, 27, 377
 XSetCommand, 370, **371**
 XSetDashes, 133, 135, **139**, 140
 XSetErrorHandler, **243**
 XSetFillRule, **140**
 XSetFillStyle, **140**
 XSetFont, **143**
 XSetFontPath, 167, **188**
 XSetForeground, 127, **137**
 XSetFunction, **138**
 XSetGraphicsExposures, **146**, 216
 XSetICFocus, 303, **316**, 317
 XSetIconName, **354**
 XSetIconSizes, **367**
 XSetICValue, 307
 XSetICValues, 308, **318**, 319, 321, 324
 XSetIMValue, 307
 XSetIMValues, **309**, 310, 312
 XSetInputFocus, **259**, 260
 XSetIOErrorHandler, **246**, 247

—

_XSetLastRequestRead, 440, **441**

X

XSetLineAttributes, 127, **138**, 139
 XSetLocaleModifiers, **274**, 275, 276, 278, 309
 XSetModifierMapping, 221, **272**
 XSetNormalHints, **460**, 462
 XSetOCValues, **283**, 284, 286
 XSetOMValues, **279**
 XSetPlaneMask, **138**

XSetPointerMapping, 221, **265**
 XSetRegion, 15, 133, **404**
 XSetRGBColormap, 463
 XSetRGBColormaps, **376**, 377
 XSetScreenSaver, **190**, 191
 XSetSelectionOwner, 27, **71**, 229
 XSetSizeHints, **462**
 XSetStandardColormap, **463**
 XSetStandardProperties, **459**, 460
 XSetState, **137**
 XSetStipple, **142**, 143
 XSetSubwindowMode, **146**
 XSetTextProperty, **351**, 352, 354, 372
 XSetTile, **142**
 XSetTransientForHint, **363**, 364
 XSetTSTOrigin, **143**
 XSetWindowAttributes, **33**, 53, 227, 231
 XSetWindowBackground, **54**, 55
 XSetWindowBackgroundPixmap, **54**, 55
 XSetWindowBorder, **55**
 XSetWindowBorderPixmap, **55**
 XSetWindowBorderWidth, **50**, 218, 225
 XSetWindowColormap, **55**, 56, 87, 187, 227
 XSetWMClientMachine, 369, 370, **372**
 XSetWMColormapWindows, **366**
 XSetWMHints, **357**, 368, 369, 371
 XSetWMIconName, **353**, 354, 370
 XSetWMName, **352**, 370
 XSetWMNormalHints, **360**, 361, 369, 371, 460
 XSetWMProperties, **370**, 371, 459
 XSetWMProtocols, **364**, 365
 XSetWMSizeHints, **361**, 462
 XSetZoomHints, **461**, 462
 XShrinkRegion, **405**
 XSizeHints, 343, 357, **358**, 360, 361, 403, 460, 462
 XStandardColormap, **374**, 375, 376, 377, 459, 463
 XStdICCTextStyle, 347
 XStoreBuffer, **408**, 409
 XStoreBytes, **408**
 XStoreColor, 94, **95**, 96, 97
 XStoreColors, 94, **96**, 97, 377
 XStoreName, **352**, 353
 XStoreNamedColor, 83, 94, **97**, 98
 XStringListToTextProperty, **349**, 350
 XStringStyle, 347, 348
 XStringToKeysym, **398**
 XSubImage, **413**, 414
 XSubtractRegion, **406**
 XSupportsLocale, **274**, 275, 348
 XSync, 2, 3, 26, **232**
 XSynchronize, **242**, 455
 XTextExtents, **169**, 170, 172
 XTextExtents16, **170**, 172
 XTextItem, **173**
 XTextItem16, **173**
 XTextProperty, **346**, 347, 348, 349, 350, 351, 352, 353, 354, 372
 XTextPropertyToStringList, **350**
 XTextStyle, 347
 XTextWidth, **169**
 XTextWidth16, **169**
 XTimeCoord, **241**
 XTranslateCoordinates, **60**, 61
 XUndefineCursor, **56**
 XUngrabButton, **253**
 XUngrabKey, **256**
 XUngrabKeyboard, 27, **254**, 255
 XUngrabPointer, 27, 203, 207, **250**, 251
 XUngrabServer, 27, **189**, 190
 XUninstallColormap, 80, 87, 186, **187**, 227
 XUnionRectWithRegion, **406**
 XUnionRegion, **406**
 XUniqueContext, **420**
 XUnloadFont, 165, **166**, 168
 XUnlockDisplay, **28**
 XUnmapEvent, **223**
 XUnmapSubwindows, **45**
 XUnmapWindow, **44**, 45
 XUnregisterIMInstantiateCallback, 275, 307, **311**, 312
 XUnsetICFocus, 303, 316, **317**
 XVaCreateNestedList, 277
 XValue, 402
 XVaNestedList, 277, 319
 XVendorRelease, **18**
 XVisibilityEvent, **223**, 224
 XVisualIDFromVisual, **32**
 XVisualInfo, 31, **410**
 XWarpPointer, **259**
 XWatchProc, **29**
 XwcDrawImageString, **298**, 299
 XwcDrawString, **298**
 XwcDrawText, 275, 296, **297**, 298
 XwcFreeStringList, **349**
 XwcLookupString, 275, 303, 304, 305, 306, 309, **339**, 340
 XwcPerCharExtents, 292
 XwcResetIC, 306, 317, 323, 327
 XwcTextEscapement, **293**, 294
 XwcTextExtents, 275, 292, **293**, 294, 296, 298, 299
 XwcTextItem, **296**
 XwcTextListToTextProperty, 275, **347**
 XwcTextPerCharExtents, 291, 294, **295**, 296, 298
 XwcTextPropertyToTextList, 275, **348**, 349

XWhitePixel, **11**
XWhitePixelOfScreen, **21**
XWidthMMOfScreen, **24**
XWidthOfScreen, **24**
XWindowAttributes, **58**
XWindowChanges, **45**, 47, 48, 346
XWindowEvent, 3, 232, **236**
XWithdrawWindow, **345**, 346
XWMGeometry, **402**, 403, 464
XWMHints, 343, **355**, 357, 368, 370
XWriteBitmapFile, **416**, 417, 418
XXorRegion, **406**
XYBitmap, 180, 412
XY format, **483**
XYPixmap, 180, 181, 182, 412

Y

YNegative, 402
YSorted, 144, 145
YValue, 402
YXBanded, 144, 145
YXSorted, 144, 145

Z

Z format, **483**
ZPixmap, 180, 181, 182, 412