Index

A	Bitmap, 56, 158 Border, 158
Above, 20, 21, 22, 86	Bottom, 86
Access, 4, 16, 17, 29, 30, 31, 32, 63, 64, 65, 74, 75,	BottomIf, 20, 21, 22, 86
116	Busy, 68, 72
Access control list, 158	Butt, 42, 44, 45, 47, 53
Activate, 73, 74	Button:
Active grab, 158	grabbing, 158
All, 59, 60, 61, 64	Button1, 2
Alloc, 4, 13, 23, 37, 41, 42, 47, 48, 49, 59, 60, 62,	Button[1-5]Motion, 78
63, 65, 66, 68, 69, 116	Button1Motion, 2
AllocColor, 61, 62 , 64, 141	Button2, 2
AllocColorCells, 60, 61, 62 , 64, 141	Button2Motion, 2
AllocColorPlanes, 60, 61, 63 , 64, 142	Button3, 2
AllocNamedColor, 61, 62 , 64, 141	Button3Motion, 2
AllowEvents, 28, 31, 32 , 33, 34, 128	Button4, 2
AllTemporary, 75	Button4Motion, 2
AlreadyGrabbed, 27, 28, 30, 31	Button5, 2
Alternative1, 111	Button5Motion, 2
AlternativeI, 111	ButtonMotion, 2, 78
Alternative Values, 1	ButtonPress, 2, 17, 29, 33, 77 , 79, 150
Always, 9, 13, 15, 16, 17, 82	ButtonRelease, 2, 33, 77 , 79, 150
Ancestor, 78, 79, 80	Byte order, 158
Ancestors, 158	
And, 42, 43	C
AndInverted, 42, 43	_
AndReverse, 42, 43	Center, 2, 21
AnyButton, 29, 30	ChangeActivePointerGrab, 30 , 77, 127
AnyKey, 31, 32	ChangeGC, 4, 47 , 49, 135
AnyModifier, 29, 30, 31, 32	ChangeHosts, 4, 74 , 147
AnyPropertyType, 24, 25	ChangeKeyboardControl, 4, 70 , 146
Append, 23, 24	ChangeKeyboardMapping, 69 , 88, 145
AsyncBoth, 32, 33	ChangePointerControl, 72 , 146
Asynchronous, 27, 28, 29, 30, 31, 76	ChangeProperty, 23 , 87, 124
AsyncKeyboard, 32, 33	ChangeSaveSet, 18 , 122
AsyncPointer, 32, 33	Change Window Attributes, 4, 12, 16 , 60, 121
Atom, 1, 4, 6, 23, 24, 25, 26, 115, 158	Chaos, 2
Authenticate, 9	Children, 158
Tuttienticute, 5	Chord, 42, 55, 56
В	CirculateNotify, 22, 78, 82, 84, 86 , 155
2	CirculateRequest, 22, 86 , 156
Background, 158	CirculateWindow, 22 , 86, 123
Backing store, 158	Clear, 42, 43
Bell, 71 , 146	Clear Area, 49 , 136
Below, 20, 21, 22, 86	Client, 158
Bevel, 42, 45, 52	ClientMessage, 88 , 157
Bit:	ClipByChildren, 42, 46, 47, 50
gravity, 158	Clipping region, 159
plane, 158	CloseFont, 37 , 131
prane, 100	C10501 UIII, 51, 131

Colormap, 1, 4, 6, 13, 16, 60, 61, 62, 63, 64, 65, 116, 159	55, 56, 57, 58, 59, 67, 116, 159
ColormapChange, 2, 88	E
ColormapNotify, 17, 60, 61, 88 , 156	
Complex, 54	East, 2, 21
ConfigureNotify, 20, 21, 78, 82, 83, 85 , 154	Enable, 75
ConfigureRequest, 20, 86 , 155	Enabled, 75
Configure Window, 15, 20 , 85, 86, 122	EnterNotify, 28, 29, 78 , 79, 80, 82, 84, 151
Connection, 159	EnterWindow, 2, 78
Containment, 159	Equiv, 42, 43
Control, 2, 68, 69	Error Codes:
ConvertSelection, 26 , 87, 88, 126	Access, 4
Convex, 54, 55	Alloc, 4
Coordinate system, 159	Atom, 5
Copy, 42, 43, 47, 50, 59	Colormap, 5
CopyArea, 47, 50 , 51, 83, 136	Cursor, 5
CopyColormapAndFree, 60 , 140	Drawable, 5
CopyFromParent, 13, 14, 15, 16, 110	Font, 5
CopyGC, 48 , 135	GContext, 5
CopyInverted, 42, 43	IDChoice, 5
CopyPlane, 47, 50 , 83, 136	Implementation, 5
CreateColormap, 59 , 60, 64, 140	Length, 5
CreateCursor, 65 , 66, 143	Match, 5
CreateGC, 42 , 48, 49, 134	Name, 5
CreateGlyphCursor, 66, 144	Pixmap, 5
CreateNotify, 16, 84 , 153	Request, 5
CreatePixmap, 41, 134	Value, 5
CreateWindow, 12, 13 , 16, 60, 84, 120	Window, 6
CurrentTime, 26, 27, 29, 30, 31, 32, 34, 35, 36, 87,	EvenOdd, 42, 46, 47
164	Event, 159
Cursor, 1, 4, 6, 13, 16, 27, 29, 30, 67, 115, 159	Exposure, 160
	mask, 160
D	propagation, 160
	source, 160
DECnet, 2	synchronization, 160
Default, 70, 73	EventName, 2
Delete, 18, 74	Expose, 79, 80, 82 , 84, 153
Deleted, 87	Exposure, 2, 82
DeleteProperty, 24, 87, 124	Extension, 160
Depth, 159	
Destroy, 75, 76	\mathbf{F}
DestroyNotify, 17, 84 , 154	
DestroySubwindows, 18, 122	Failed, 9, 68
DestroyWindow, 17 , 18, 121	False, 2, 14, 19, 20, 23, 27, 28, 30, 34, 35, 76, 78
Device, 159	85, 88
DirectColor, 9, 12, 60, 63, 159 , 165	FillPoly, 46, 54 , 55, 137
Disable, 75	FocusChange, 2, 80
Disabled, 75	FocusIn, 31, 36, 79 , 80, 81, 82, 152
Display, 159	FocusOut, 31, 36, 79 , 80, 81, 82, 84, 152
DoubleDash, 42, 44, 46, 49	Focus window, 160
Drawable, 1, 4, 6, 22, 41, 42, 50, 51, 52, 53, 54,	Font, 1, 4, 6, 37, 40, 42, 47, 57, 58, 66, 115, 160
	ForceScreenSaver, 73, 148
	Forget, 2, 14, 21

Free, 76 Implementation, 4, 117 FreeColormap, 16, 60, 140 IncludeInferiors, 42, 46 FreeColors, 4, 60, 63, 142 Inferior, 78, 79, 80 FreeCursor, 67, 144 Inferiors, 161 FreeGC, 49, 136 InputFocus, 27, 111 FreePixmap, 42, 134 Input focus, 161 Frozen, 27, 28, 30, 31 Input manager, 161 FullyObscured, 83 InputOnly, 4, 11, 13, 14, 17, 19, 20, 23, 42, 50, 67, 82, 83, 110, 159, 161 G InputOutput, 11, 13, 17, 46, 110, 158, 161 Insert, 18, 74 GC, 160 InstallColormap, 12, 16, 17, 61, 62, 140 GContext, 1, 4, 6, 47, 48, 49, 50, 51, 52, 53, 54, Installed, 88 55, 56, 57, 58, 59, 116, **160** InternAtom, 7, 23, 124 GetAtomName, 23, 124 Internet, 2 GetFontPath, 41, 133 InternetV6, 2 GetGeometry, 22, 123 InvalidTime, 27, 28, 30, 31 GetImage, 56, 138 Invert, 42, 43 GetInputFocus, 36, 130 GetKeyboardControl, 71, 146 K GetKeyboardMapping, 69, 145 GetModifierMapping, 68, 149 Key: GetMotionEvents, 11, 34, 78, 129 grabbing, 161 GetPointerControl, 72, 147 Keyboard, 88 GetPointerMapping, 72, 149 grabbing, 161 GetProperty, 24, 87, 125 KeymapNotify, 1, **82**, 153 GetScreenSaver, 73, 147 KeymapState, 2, 82 GetSelectionOwner, 26, 125 KeyPress, 2, 6, 30, 31, 33, 71, **77**, 81, 150 GetWindowAttributes, 12, 17, 121 KeyRelease, 2, 31, 33, 71, 77, 82, 150 Glyph, 160 Keysym, 161 Grab, 78, 79, 80, 82, **160** KillClient, 75, 148 GrabButton, 29, 30, 33, 76, 127 L GrabKey, 31, 32, 33, 128 GrabKeyboard, 30, 31, 32, 33, 127 GrabPointer, 27, 29, 30, 33, 126 LeastSignificant, 9 GrabServer, 34, 129 LeaveNotify, 28, 29, 78, 79, 80, 82, 84, 151 Graphics context, 160 LeaveWindow, 2, 78 GraphicsExposure, 47, 50, 82, 83, 153 LeftToRight, 37, 38, 40 Gravity, 160 Length, 4, 11, 68, 69, 117 GravityNotify, 21, 78, 82, 83, 85, 155 ListExtensions, 68, 145 GrayScale, 9, 12, 60, 63, 66, 160, 164 ListFonts, 40, 41, 132 ListFontsWithInfo, 41, 132 H ListHosts, **75**, 148 ListInstalledColormaps, 61, 140 Hint, 77, 78 ListProperties, 25, 125 Hotspot, 161 Lock, 2, 7, 68, 69 LookupColor, 65, 143 LowerHighest, 22 IDChoice, 1, 4, 13, 37, 41, 42, 59, 60, 65, 66, 116 Identifier, 161 ImageText16, 59, 140 ImageText8, 59, 139

LSBFirst, 9 NotUseful, 13, 14, 15, 17 NotViewable, 27, 28, 30, 31 M O MapNotify, 19, 78, 82, 83, 84, 154 Mapped window, 161 Obscure, 161 MappingNotify, 68, 69, 72, 88, 157 Occlude, 161 MapRequest, 19, 85, 154 Off, 70, 71 MapSubwindows, 19, 122 On, 70, 71 MapWindow, 18, 19, 76, 85, 122 OnOffDash, 42, 44, 46, 49 Match, 4, 13, 14, 15, 16, 18, 20, 22, 23, 24, 25, 35, OpaqueStippled, 42, 45, 46, 51 36, 42, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, OpenFont, 37, 131 Opposite, 20, 21, 22, 86 56, 57, 58, 59, 60, 65, 66, 67, 70, 71, 115 Miter, 42, 45, 47 Or, 42, 43 Mod1, 2, 6, 7, 68, 69 Origin, 51, 54 Mod2, 2, 68, 69 OrInverted, 42, 43 Mod3, 2, 68, 69 OrReverse, 42, 43 Mod4, 2, 68, 69 OwnerGrabButton, 2, 76 Mod5, 2, 6, 7, 68, 69 Modifier, 88 Modifier keys, 161 Padding, 162 Modifiers, 88 Monochrome, 161 Parent, 35, 36 MostSignificant, 9 ParentRelative, 13, 14, 15, 16, 19 MotionNotify, 11, 77, 78, 151 PartiallyObscured, 83 MSBFirst, 9 Passive grab, 162 PieSlice, 42, 47, 55, 56 N Pixel value, 162 Pixmap, 1, 4, 6, 13, 16, 42, 47, 65, 115, **162** Plane, 162 Name, 4, 37, 62, 64, 65, 117 mask, 162 Name1, 110 NameI, 110 Pointer, 79, 80, 81, 88, 162 grabbing, 162 NameofThing, 110 Nand, 42, 43 PointerMotion, 2, 78 Never, 9 PointerMotionHint, 2, 78 New Value, 87 PointerRoot, 6, 35, 36, 76, 79, 81 No. 73 PointerWindow, 27, 111 NoExposure, 50, 83, 153 Pointing device, 162 Nonconvex, 54 PolyArc, 46, **53**, 56, 137 None, 6, 13, 14, 15, 16, 17, 23, 24, 25, 26, 27, 29, PolyFillArc, 46, 47, 55, 138 30, 34, 35, 36, 42, 46, 47, 49, 50, 56, 57, 59, 60, PolyFillRectangle, 46, 55, 138 PolyLine, 46, **51**, 52, 137 65, 66, 76, 77, 78, 79, 81, 85, 86, 87, 88 Nonlinear, 78, 79, 80, 81 PolyPoint, **51**, 137 Nonlinear Virtual, 78, 79, 80, 81 PolyRectangle, 46, **52**, 137 NoOp, 42, 43 PolySegment, 46, **52**, 137 NoOperation, 75, 149 PolyText16, 4, 46, 58, 139 Nor, 42, 43 PolyText8, 4, 46, 57, 58, 139 Normal, 77, 78, 79, 80, 82 Prepend, 23, 24

Previous, 51, 54 Projecting, 42, 44, 45

Property, 162

Property list, 162

PropertyChange, 2, 87

North, 2, 21

NorthEast, 2, 21 NorthWest, 2, 14, 21

NotLast, 42, 44, 45

NoSymbol, 6, 69, 70, 90

Duamouts: Notify 24 25 97 156	Companient amount of 2
PropertyNotify, 24, 25, 87 , 156	ServerInterpreted, 2
PseudoColor, 9, 12, 60, 63, 160, 162 , 164	Set, 42, 43
PutImage, 56 , 138	SetAccessControl, 75, 148
	SetClipRectangles, 46, 48, 49 , 136
Q	SetCloseDownMode, 75 , 76, 148
	SetDashes, 46, 48 , 136
QueryBestSize, 67 , 144	SetFontPath, 40, 41 , 133
QueryColors, 65 , 143	SetInputFocus, 35 , 80, 130
QueryExtension, 67 , 145	SetModifierMapping, 68 , 88, 149
QueryFont, 37 , 40, 41, 131	SetPointerMapping, 72, 88, 149
QueryKeymap, 36 , 82, 131	SetScreenSaver, 73, 147
QueryPointer, 34 , 78, 129	SetSelectionOwner, 26 , 76, 87, 125
QueryTextExtents, 40, 59, 132	Shift, 2, 7, 68, 69
QueryTree, 23 , 123	Sibling, 164
	Solid, 42, 44, 46, 47, 49, 59
R	South, 2, 21
	SouthEast, 2, 21
RaiseLowest, 22	SouthWest, 2, 21
RecolorCursor, 67 , 144	Stacking order, 164
Redirecting control, 162	Static, 2, 21
ReparentNotify, 18, 85 , 154	StaticColor, 9, 12, 60, 164
ReparentWindow, 18 , 122	StaticGray, 9, 12, 60, 66, 161, 164
Replace, 23, 24	Stipple, 67, 164
ReplayKeyboard, 32, 33	* *
1	Stippled, 42, 45, 46
ReplayPointer, 32, 33	StoreColors, 4, 63, 64 , 65, 142
Reply, 163	StoreNamedColor, 63, 64 , 142
Request, 4, 114, 163	String Equivalence, 164
RequestName, 2	StructureNotify, 2, 84, 85, 86
Reset, 73, 74	SubstructureNotify, 2, 84, 85, 86
ResizeRedirect, 2, 17, 20, 86	SubstructureRedirect, 2, 16, 17, 19, 20, 22, 85, 86
ResizeRequest, 20, 86 , 155	Success, 9, 27, 30, 68, 72
Resource, 163	SyncBoth, 32, 33
RetainPermanent, 75, 76	Synchronous, 27, 28, 29, 30, 31
RetainTemporary, 75, 76	SyncKeyboard, 32, 33
RGB values, 163	SyncPointer, 32, 33
RightToLeft, 37, 38, 40	
Root, 163	T
RotateProperties, 25, 87, 148	
Round, 42, 44, 45	Tile, 67, 164
	Tiled, 42, 46
S	Timestamp, 164
	Top, 86
Save set, 163	TopIf, 20, 21, 22, 86
Scanline, 163	TranslateCoordinates, 35 , 130
Scanline order, 163	True, 2, 12, 15, 18, 25, 27, 28, 30, 34, 39, 47, 50,
Screen, 163	63, 76, 78, 84, 88
Selection, 163	TrueColor, 9, 12, 60, 165
SelectionClear, 26, 87 , 156	Type, 165
SelectionNotify, 27, 87 , 156	Types:
SelectionRequest, 26, 27, 87 , 156	BITMASK, 2
SendEvent, 1, 27 , 88, 126	LISTofFOO, 2
Server, 164	LISTOFVALUE, 2
grabbing, 164	OR, 2

ATOM, 3	UnmapWindow, 17, 18, 19 , 20, 122
BITGRAVITY, 3	Unobscured, 83
BOOL, 3	UnSorted, 49
BUTMASK, 3	Unviewable, 17
BUTTON, 3	Chiviewable, 17
BYTE, 3	V
CARD16, 3	•
CARD10, 3 CARD32, 3	Volue 1 2 4 12 16 19 20 22 22 24 25 27 20
	Value, 1, 2, 4, 13, 16, 18, 20, 22, 23, 24, 25, 27, 29, 20, 21, 22, 25, 41, 42, 46, 47, 48, 40, 50, 51, 54
CARD8, 3	30, 31, 32, 35, 41, 42, 46, 47, 48, 49, 50, 51, 54,
COLORMAP, 3	56, 59, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72,
CURSOR, 3	73, 74, 75, 115
DEVICEEVENT, 3	Viewable, 17, 165
DRAWABLE, 3	Virtual, 78, 79, 80
EVENT, 3	Visibilitity, 82
FONTABLE, 3	VisibilityChange, 2, 83
FONT, 3	VisibilityNotify, 13, 79, 80, 82, 83 , 84, 153
GCONTEXT, 3	Visible, 165
INT16, 3	VoidSymbol, 6, 90
INT32, 3	***
INT8, 3	\mathbf{W}
KEYBUTMASK, 3	
KEYCODE, 3	WarpPointer, 35 , 130
KEYMASK, 3	West, 2, 21
KEYSYM, 3	WhenMapped, 9, 13, 15, 16, 17, 82
PIXMAP, 3	WhileGrabbed, 79, 80
POINTEREVENT, 3	Winding, 42, 46
STRING8, 3	Window, 1, 4, 6, 13, 16, 17, 18, 19, 20, 22, 23, 24,
TIMESTAMP, 3	25, 26, 27, 29, 30, 31, 32, 34, 35, 49, 59, 61, 110,
VALUE, 3	115
VISUALID, 3	InputOnly, 161
WINDOW, 3	InputOutput, 161
WINGRAVITY, 3	parent, 162
ARC, 4	root, 163
CHAR2B, 4	gravity, 165
HOST, 4	manager, 165
POINT, 4	
RECTANGLE, 4	X
STRING16, 4	
	Xor, 42, 43
${f U}$	XYFormat, 165
	XYPixmap, 56, 57
Ungrab, 78, 79, 80, 82	
UngrabButton, 30 , 127	Y
UngrabKey, 32 , 128	
UngrabKeyboard, 31 , 76, 128	Yes, 73
UngrabPointer, 29 , 76, 77, 127	YSorted, 49
UngrabServer, 34 , 76, 129	YXBanded, 49
UninstallColormap, 60, 61 , 140	YXSorted, 49
Uninstalled, 88	
Unmap, 2, 21, 84	${f Z}$
UnmapNotify, 19, 21, 78, 80, 82, 83, 84 , 154	
Unmapped, 17	ZFormat, 165
UnmapSubwindows, 19 , 122	ZPixmap, 56, 57
, ,	1,