

Index

/

/usr/include/X11/bitmaps, 9
 /usr/lib/X11/app-defaults, 14

A

A, note, **4**
 app-defaults, 14
 application defaults, 14
 application header file, **4**
 application programmer, **2**
 Arg, **16**
 ArgList, **16**
 argument lists, **16**
 AsciiSink object, 87, **94**
 class name, 94
 resources, 95
 AsciiSink object, 96
 resources, 103
 AsciiSink.h, 94
 asciiSinkObjectClass, 94
 AsciiSinkP.h, 94
 AsciiSrc object, 87, **91**
 class name, 91
 resources, 92
 AsciiSrc object, 96
 AsciiSrc.h, 91
 asciiSrcObjectClass, 91
 AsciiSrcP.h, 91
 AsciiText widget, **86**
 class name, 86
 resources, 87
 AsciiText widget, 96
 AsciiText.h, 86
 AsciiTextP.h, 86
 asciiTextWidgetClass, 86

B

bitmap conversions, **9**
 BitmapFilePath, **9**
 bitmapFilePath, **9**
 Box widget, **108**
 class name, 108
 resources, 109
 layout semantics, 110
 resources, 127
 Box.h, 108, 126

BoxP.h, 108
 boxWidgetClass, 108
 ButtonPress, 137

C

C, note, **4**
 CallbackProc, **12**
 callbacks, 12
 chapter format, **4**
 child, 2
 class, **2, 4**
 class header file, **4**
 class name, **4**
 client, **2**
 Command widget, **18**
 class name, 18
 resources, 19
 actions, 22
 translation bindings, 22
 Command.h, 18
 CommandP.h, 18
 commandWidgetClass, 18
 compiling applications, 14
 conventions:
 used in manual, **3**
 chapter format, **4**
 conversions, **8**
 Bitmap, **9**
 ColorCursor, **9**
 Cursor, **9**
 Pixel, **9**
 Justify, 21
 ShapeStyle, 21
 Justify, 27, 39
 ShapeStyle, 40
 Orientation, 43
 Justify, 53
 ShapeStyle, 54
 BackingStore, 60
 Justify, 69
 ShapeStyle, 70
 XawTextEditType, 89
 XawTextResizeMode, 90
 XawTextScrollMode, 90
 AsciiType, 91, 93
 XawTextEditType, 93
 XawTextResizeMode, 98
 XawTextScrollMode, 98

XawTextEditType, 100
 Orientation, 110
 Widget, 113, 117
 Orientation, 121
 Gravity, 128
 Core widget, 132
 creating new widgets, **132**
 creating widgets, **7**
 cursor, 9

D

D, note, **4**
 destroyCallback, **13**
 Dialog widget, 108, **110**
 class name, 111
 resources, 111
 constraint resources, 112
 layout semantics, 113
 automatically created children, 114
 special considerations, 114
 Dialog.h, 110
 DialogP.h, 111
 dialogWidgetClass, 111

E

events, 10
 examples, 17

F

fallback resources, **6**
 FindPosition, 105
 float resources:
 setting, 45
 FMT8BIT, 83
 Form widget, 108, **115**
 class name, 115
 resources, 115
 constraint resources, 116
 re-layout, 118
 Form.h, 115
 FormP.h, 115
 formWidgetClass, 115
 fromHoriz, 113, 117
 fromLeft, 114
 fromVert, 113, 117

FullName, 2

G

geometry management, 108
 Grip widget, 18, **22**
 class name, 22
 resources, 23
 GripAction routine, 24
 actions, 24
 GripAction table, 25
 Grip.h, 22
 GripAction, 123
 GripCallData, 25
 GripP.h, 22
 gripWidgetClass, 22

H

horizDistance, 113, 117

I

initialization, **6**
 input, **5**
 input focus, **5**
 Input Method, 80
 instance, **2**
 internationalization, 6
 Intrinsic.h, 13
 introduction, **1**

J

jumpProc, 44, **45**

K

KeyPress, 137

L

Label widget, 18, **25**
 class name, 25
 resources, 25
 Label.h, 25
 LabelP.h, 25
 labelWidgetClass, 25
 libICE, 14
 libSM, 14
 libX11, 14
 libXaw, 14
 libXext, 14

libXmu, 14
 libXt, 14
 linking applications, 14
 List widget, 18, **28**
 class name, 28
 resources, 28
 actions, 31
 callbacks, 31
 default translation table, 31
 List.h, 28
 ListP.h, 28
 listWidgetClass, 28
 locale, 6

M

MenuButton widget, **67**
 class name, 67
 resources, 67
 actions, 70
 MenuButton.h, 67
 MenuButtonP.h, 67
 menuButtonWidgetClass, 67
 Menus, 58
 popup, 58
 pulldown, 58
 using, 58
 method, **2**
 MultiSink object, 87, 96
 MultiSrc object, 87, 96

N

name:
 widget, **2**
 notes, **4**

O

object, **2**

P

Paned widget, 108, **118**
 class name, 118
 using, 118
 resources, 119
 constraint resources, 121
 layout semantics, 122
 change height settings, 123
 disable pane resizing, 123
 enable pane resizing, 123
 disable auto-reconfiguring, 124

 enable auto-reconfiguring, 124
 get height settings, 124
 getting the number of children, 124
 Paned.h, 118
 PanedP.h, 118
 panedWidgetClass, 118
 Panner widget, 18, **33**
 class name, 33
 resources, 33
 actions, 35
 callbacks, 36
 default translation table, 36
 Panner.h, 33
 PannerP.h, 33
 pannerWidgetClass, 33
 parent, **2**
 pixel, 9
 Porthole widget, 108, **124**
 class name, 124
 resources, 125
 callbacks, 126
 layout semantics, 126
 Porthole.h, 124
 PortholeP.h, 124
 portholeWidgetClass, 124

R

R, note, **4**
 Radio button, 51
 Radio groups, 51, 55
 one of many, 55
 zero or one of many, 55
 radioData, 56
 realizing widgets, **9**
 Repeater widget, 18, **36**
 class name, 37
 resources, 37
 actions, 40
 translation bindings, 40
 Repeater.h, 36
 RepeaterP.h, 36
 repeaterWidgetClass, 37
 ReportProc, **36, 126**
 resource, **2**, 8, 14
 rgb.txt, 9

S

Scrollbar widget, 18, **41**
 class name, 41
 resources, 41
 actions, 44

- callbacks, 44
- default translation table, 44
- setting thumb values, 45
- Scrollbar.h, 41
- ScrollbarPh, 41
- scrollbarWidgetClass, 41
- ScrollProc, **44**
- SetSelection, **102**
- Simple widget, 18, **46**
 - class name, 46
 - resources, 46
- simple widgets, 18
- Simple.h, 46
- SimpleMenPh, 59
- SimpleMenu widget, **58**
 - class name, 59
 - resources, 59
 - MenuPopdown routine, 61
 - actions, 61
 - default translations, 61
 - MenuPopdown routine, 62
 - positioning, **62**
- SimpleMenu.h, 58
- simpleMenuWidgetClass, 59
- SimplePh, 46
- simpleWidgetClass, 46
- Sme object, 58, **65**
 - Highlight method, 66
 - Notify method, 66
 - Unhighlight method, 66
 - class name, 66
 - subclassing, 66
- Sme.h, 65
- SmeBSB object, 58, **63**
 - class name, 63
 - resources, 63
- SmeBSB.h, 63
- smeBSBObjectClass, 63
- SmeBSBPh, 63
- SmeLine object, 58, **65**
 - class name, 65
 - resources, 65, 66
- SmeLine.h, 65
- smeLineObjectClass, 65
- SmeLinePh, 65
- smeObjectClass, 66
- SmePh, 65
- string conversions, **8**
- StringDefs.h, 13
- StripCharPh, 48
- StripChart widget, 18, **48**
 - class name, 48
 - resources, 48

- getValue callback, **50**
- getting the value, 50
- StripChart.h, 48
- stripChartWidgetClass, 48
- subclassing, **132**
- superclass, **2, 4**

T

- Text widget:
 - User's Guide to the Text widget, 72
 - default key bindings, 72
 - edit modes, 72
 - query replace, 73
 - search, 73
 - file insertion, 74
 - Text Selections for Users, 75
 - actions, **75**
 - Text Selections for Application Programmers, 80
 - default translations, 81
- Text widget, 95
 - customizing, **95**
- Text widget, **96**
 - class name, 96
 - resources, 96
 - ConvertSelection, **102**
- Text.h, 96
- TextPh, 96
- TextSink object, 95, **103**
 - DisplayText, **103**
 - class name, 103
 - subclassing, **103**
 - ClearToBackground, **104**
 - FindPosition, **104**
 - InsertCursor, **104**
 - FindDistance, **105**
 - Resolve, **105**
 - MaxHeight, **106**
 - MaxLines, **106**
 - SetTabs, **106**
 - GetCursorBounds, **107**
- TextSink.h, 103
- textSinkObjectClass, 103
- TextSinkPh, 103
- TextSrc object, 96, **99**
 - class name, 99
 - resources, 99
 - Read, **100**
 - Replace, **100**
 - subclassing, **100**
 - Scan, **101**
 - Search, **101**
- TextSrc.h, 99

textSrcObjectClass, 99
 TextSrcP.h, 99
 textWidgetClass, 96
 Toggle widget, 18, **50**
 class name, 51
 resources, 51
 used in radio groups, 51
 actions, 54
 default translation table, 54
 Toggle.h, 50
 ToggleP.h, 50
 toggleWidgetClass, 50
 toolkit initialization, **6**
 Tree widget, 108, **126**
 class name, 126
 constraint resources, 128
 convenience routines, 128
 layout semantics, 128
 TreeP.h, 126
 treeWidgetClass, 126
 type conversions, **8**

U

underlying model, **3**
 user, **2**
 using widgets, **6**

V

vertDistance, 113, 117
 Viewport widget, 108, **129**
 class name, 129
 resources, 129
 layout semantics, 131
 Viewport.h, 129
 ViewportP.h, 129
 viewportWidgetClass, 129

W

widget, **3**
 widget class, **3**
 widget creation, **7**
 widget programmer, **3**
 widgetClass, 132
 Window widget, 132
 WrapMode, 91, 99

writing applications, 13

X

X11/Intrinsic.h, 13
 X11/Xaw/Command.h, 13
 X11/Xaw/Label.h, 13
 X11/Xaw/Template.c, 133, 135
 X11/Xaw/Template.h, 133
 X11/Xaw/TemplateP.h, 133, 134
 X11/Xlib.h, 13
 XawAsciiSave, **94**
 XawAsciiSaveAsFile, **94**
 XawAsciiSourceChanged, **94**
 XawAsciiSourceFreeString, **94**, 114
 XawChain, 113, 117
 XawChainBottom, 113, 117
 XawChainLeft, 113, 117
 XawChainRight, 113, 117
 XawChainTop, 113, 117
 XawDialogAddButton, **114**
 XawDialogGetValueString, **114**
 XawEdgeType, 112, 116
 XawEditDone, 84, 101
 XawEditError, 84, 101
 XawFormDoLayout, **118**
 XawGripCallData, **24**, 25
 XawGripCallDataRec, **24**, 25
 XawListChange, **31**, 32
 XawListHighlight, **32**
 XawListReturnStruct, **31**, 32
 XawListShowCurrent, **32**
 XawListUnhighlight, **32**
 XawPanedAllowResize, **123**
 XawPanedGetMinMax, **124**
 XawPanedGetNumSub, **124**
 XawPanedSetMinMax, **123**
 XawPanedSetRefigureMode, **124**
 XawPositionError, 84, 101
 XawPositionSimpleMenu, **62**
 XawRubber, 112, 113, 116, 117
 XawScrollbarSetThumb, **45**
 XawScrollbarThumb, 45
 XawsdLeft, 101, 102
 XawsdRight, 101, 102
 XawselectAll, 80
 XawselectChar, 80
 XawselectLine, 80
 XawselectNull, 80
 XawselectParagraph, 80
 XawselectPosition, 80
 XawselectWord, 80
 XawSimpleMenuAddGlobalActions, **62**

- XawSimpleMenuClearActiveEntry, **63**
- XawSimpleMenuGetActiveEntry, **62**
- XawstAll, 101
- XawstEOL, 101
- XawstParagraph, 101
- XawstPositions, 101
- XawstWhiteSpace, 101
- XawtextAppend, 89, 93, 100
- XawTextBlock, **82**
- XawTextBlockPtr, 82
- XawTextDisableRedisplay, **85**
- XawTextDisplay, **85**
- XawTextDisplayCaret, **86**
- XawtextEdit, 89, 93, 100
- XawTextEnableRedisplay, **84**
- XawTextGetInsertionPoint, **86**
- XawTextGetSelectionPos, **83**
- XawTextGetSource, **86**
- XawTextInvalidate, **84**
- XawTextPosition, **82**
- XawtextRead, 89, 93, 100
- XawTextReplace, 72, **83**
- XawtextResizeBoth, 90, 98
- XawtextResizeHeight, 90, 98
- XawtextResizeNever, 90, 98
- XawtextResizeWidth, 90, 98
- XawtextScrollAlways, 90, 98
- XawtextScrollNever, 90, 98
- XawtextScrollWhenNeeded, 90, 98
- XawTextSearch, **84**
- XawTextSearchError, 102
- XawTextSetInsertionPoint, **85**
- XawTextSetSelection, **83**
- XawTextSetSelectionArray, 80, **85**
- XawTextSetSource, **86**
- XawTextSinkClearToBackground, 103
- XawTextSinkDisplayText, 103
- XawTextSinkFindDistance, 103
- XawTextSinkFindPosition, 103
- XawTextSinkGetCursorBounds, 103
- XawTextSinkInsertCursor, 103
- XawTextSinkMaxHeight, 103
- XawTextSinkMaxLines, 103
- XawTextSinkResolve, 103
- XawTextSinkSetTabs, 103
- XawTextSourceConvertSelection, 100
- XawTextSourceRead, 100
- XawTextSourceReplace, 100
- XawTextSourceScan, 100
- XawTextSourceSearch, 100
- XawTextSourceSetSelection, 100
- XawTextTopPosition, 85
- XawTextUnsetSelection, **83**
- XawtextWrapLine, 91, 99
- XawtextWrapNever, 91, 99
- XawtextWrapWord, 91, 99
- XawToggleChangeRadioGroup, **56**
- XawToggleGetCurrent, **56**
- XawToggleSetCurrent, **56**
- XawToggleUnsetCurrent, **56**
- XawTreeForceLayout, **128**
- XawWMProtocols, 80
- XAW_LIST_NONE, 32
- xrdb, 14
- XrmParseCommand, 7
- XtAddCallback, **12**, 13
- XtAddCallbacks, 12
- XtAppInitialize, **6**, 10, 13
- XtAppMainLoop, **10**, 13
- XtCallbackList, **12**
- XtCallbackProc, 12
- XtCallbackRec, **12**
- XtCreateManagedWidget, **7**, 13
- XtCreateWidget, 10, 12
- XtDefaultBackground, 8, 9
- XtDefaultForeground, 8, 9
- XtDestroyWidget, **11**
- XtError, 7
- XtGetApplicationResources, 15
- XtGetValues, **11**, 12, 138
- XtInheritClearToBackground, 103, 104
- XtInheritConvertSelection, 100
- XtInheritDisplayText, 103
- XtInheritFindDistance, 103
- XtInheritFindPosition, 103
- XtInheritGetCursorBounds, 103
- XtInheritInsertCursor, 103
- XtInheritMaxHeight, 103
- XtInheritMaxLines, 103
- XtInheritRead, 100
- XtInheritReplace, 100
- XtInheritResolve, 103
- XtInheritScan, 100
- XtInheritSearch, 100
- XtInheritSetSelection, 100
- XtInheritSetTabs, 103
- XtManageChildren, **10**
- XtMapWidget, **10**
- XtMoveWidget, 108
- XtN, **13**
- XtNameToWidget, 114, 131
- XtNcallback, 13
- XtNinput, **5**
- XtNumber, 16, 17
- XtorientHorizontal, 43, **110**, 121
- XtorientVertical, 43, **110**, 121

XtRealizeWidget, 7, **9**, 10, 13
XtResizeWidget, 108
XtSetArg, **16**
XtSetLanguageProc, **6**
XtSetMappedWhenManaged, **10**
XtSetValues, **11**, 12, 108, 133, 134
XtWindow, 138

—

_in_out, **3**
_return, **3**