

Index

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.h, 94
 AsciiSink object, 87
 class name, 94
 AsciiSink object, **94**
 resources, 95
 AsciiSink object, 96
 resources, 103
 asciiSinkObjectClass, 94
 AsciiSinkP.h, 94
 AsciiSrc.h, 91
 AsciiSrc object, 87
 class name, 91
 AsciiSrc object, **91**
 resources, 92
 AsciiSrc object, 96
 asciiSrcObjectClass, 91
 AsciiSrcP.h, 91
 AsciiText.h, 86
 AsciiTextP.h, 86
 AsciiText widget:
 class name, 86
 AsciiText widget, **86**
 resources, 87
 AsciiText widget, 96
 asciiTextWidgetClass, 86

B

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

boxWidgetClass, 108
 ButtonPress, 137

C

CallbackProc, **12**
 callbacks, 12
 chapter format, **4**
 child, 2
 class, **2, 4**
 class header file, **4**
 class name, **4**
 client, **2**
 C, note, **4**
 Command.h, 18
 CommandP.h, 18
 Command widget, 18
 class name, 18
 Command widget, **18**
 resources, 19
 actions, 22
 translation bindings, 22
 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
 XawTextEditMode, 89
 XawTextResizeMode, 90
 XawTextScrollMode, 90
 AsciiType, 91, 93
 XawTextEditMode, 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

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

E

events, 10
 examples, 17

F

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

FullName, 2

G

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

H

horizDistance, 113, 117

I

initialization, **6**

—

_in_out, **3**

I

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.h, 25
 LabelP.h, 25
 Label widget, 18

- class name, 25
- Label widget, **25**
 - resources, 25
- labelWidgetClass, 25
- libICE, 14
- libSM, 14
- libX11, 14
- libXaw, 14
- libXext, 14
- libXmu, 14
- libXt, 14
- linking applications, 14
- List.h, 28
- ListP.h, 28
- List widget, 18
 - class name, 28
- List widget, **28**
 - resources, 28
 - actions, 31
 - callbacks, 31
 - default translation table, 31
- listWidgetClass, 28
- locale, 6

M

- MenuButton.h, 67
- MenuButtonP.h, 67
- MenuButton widget:
 - class name, 67
- MenuButton widget, **67**
 - resources, 67
 - actions, 70
- 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.h, 118
- PanedP.h, 118
- Paned widget, 108
 - class name, 118
- Paned widget, **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
- panedWidgetClass, 118
- Panner.h, 33
- PannerP.h, 33
- Panner widget, 18
 - class name, 33
- Panner widget, **33**
 - resources, 33
 - actions, 35
 - callbacks, 36
 - default translation table, 36
- pannerWidgetClass, 33
- parent, **2**
- pixel, 9
- Porthole.h, 124
- PortholeP.h, 124
- Porthole widget, 108
 - class name, 124
- Porthole widget, **124**
 - resources, 125
 - callbacks, 126
 - layout semantics, 126
- portholeWidgetClass, 124

R

- Radio button, 51
- radioData, 56
- Radio groups, 51, 55
 - one of many, 55
 - zero or one of many, 55
- realizing widgets, **9**
- Repeater.h, 36
- RepeaterP.h, 36

Repeater widget, 18, **36**
 class name, 37
 resources, 37
 actions, 40
 translation bindings, 40
 repeaterWidgetClass, 37
 ReportProc, **36, 126**
 resource, **2, 8, 14**

—

_return, **3**

R

rgb.txt, 9
 R, note, **4**

S

Scrollbar.h, 41
 ScrollbarP.h, 41
 Scrollbar widget, 18
 class name, 41
 Scrollbar widget, **41**
 resources, 41
 actions, 44
 callbacks, 44
 default translation table, 44
 setting thumb values, 45
 scrollbarWidgetClass, 41
 ScrollProc, **44**
 SetSelection, **102**
 Simple.h, 46
 SimpleMenP.h, 59
 SimpleMenu.h, 58
 SimpleMenu widget, **58**
 class name, 59
 resources, 59
 actions, 61
 default translations, 61
 MenuPopdown routine, 61, 62
 positioning, **62**
 simpleMenuWidgetClass, 59
 SimpleP.h, 46
 Simple widget, 18
 class name, 46
 Simple widget, **46**
 resources, 46
 simpleWidgetClass, 46
 simple widgets, 18
 SmeBSB.h, 63
 SmeBSB object, 58

class name, 63
 SmeBSB object, **63**
 resources, 63
 smeBSBObjectClass, 63
 SmeBSBP.h, 63
 Sme.h, 65
 SmeLine.h, 65
 SmeLine object, 58
 class name, 65
 SmeLine object, **65**
 resources, 65, 66
 smeLineObjectClass, 65
 SmeLineP.h, 65
 Sme object, 58, **65**
 class name, 66
 Highlight method, 66
 Notify method, 66
 subclassing, 66
 Unhighlight method, 66
 smeObjectClass, 66
 SmeP.h, 65
 string conversions, **8**
 StringDefs.h, 13
 StripCharP.h, 48
 StripChart.h, 48
 StripChart widget, 18
 class name, 48
 StripChart widget, **48**
 resources, 48
 getting the value, 50
 getValue callback, **50**
 stripChartWidgetClass, 48
 subclassing, **132**
 superclass, **2, 4**

T

Text.h, 96
 TextP.h, 96
 TextSink.h, 103
 TextSink object, 95
 class name, 103
 TextSink object, **103**
 DisplayText, **103**
 subclassing, **103**
 ClearToBackground, **104**
 FindPosition, **104**
 InsertCursor, **104**
 FindDistance, **105**
 Resolve, **105**
 MaxHeight, **106**
 MaxLines, **106**
 SetTabs, **106**

- GetCursorBounds, **107**
- textSinkObjectClass, 103
- TextSinkP.h, 103
- TextSrc.h, 99
- TextSrc object, 96
 - class name, 99
- TextSrc object, **99**
 - resources, 99
 - Read, **100**
 - Replace, **100**
 - subclassing, **100**
 - Scan, **101**
 - Search, **101**
- textSrcObjectClass, 99
- TextSrcP.h, 99
- Text widget:
 - default key bindings, 72
 - edit modes, 72
 - User's Guide to the Text widget, 72
 - query replace, 73
 - search, 73
 - file insertion, 74
 - actions, **75**
 - Text Selections for Users, 75
 - Text Selections for Application Programmers, 80
 - default translations, 81
- Text widget, 95
 - customizing, **95**
 - class name, 96
- Text widget, **96**
 - resources, 96
 - ConvertSelection, **102**
- textWidgetClass, 96
- Toggle.h, 50
- ToggleP.h, 50
- Toggle widget, 18, **50**
 - class name, 51
 - resources, 51
 - used in radio groups, 51
 - actions, 54
 - default translation table, 54
- toggleWidgetClass, 50
- toolkit initialization, **6**
- TreeP.h, 126
- Tree widget, 108
 - class name, 126
- Tree widget, **126**
 - constraint resources, 128
 - convenience routines, 128
 - layout semantics, 128
- treeWidgetClass, 126

- type conversions, **8**

U

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

/

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

V

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

W

- widget, **3**
- widgetClass, 132
- widget class, **3**
- widget creation, **7**
- widget programmer, **3**
- 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**
 XAW_LIST_NONE, 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**
 XawWMPprotocols, 80
 xrd, 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