# Index


**/**

/usr/include/X11/bitmaps, 9
/usr/lib/X11/app-defaults, 15

**A**

A, note, **4**
app-defaults, 15
application defaults, 15
application header file, **4**
application programmer, **2**
Arg, **16**
ArgList, **16**
argument lists, **16**
AsciiSink object, 86, **94**, 95
  class name, 94
  resources, 94, 102
AsciiSink.h, 94
asciiSinkObjectClass, 94
AsciiSinkP.h, 94
AsciiSrc object, 86, **90**, 95
  class name, 91
  resources, 91
AsciiSrc.h, 90
asciiSrcObjectClass, 91
AsciiSrcP.h, 91
AsciiText widget, **86**, 95
  class name, 86
  resources, 86
AsciiText.h, 86
AsciiTextP.h, 86
asciiTextWidgetClass, 86

**B**

bitmap conversions, **9**
BitmapFilePath, **9**
bitmapFilePath, **9**
Box widget, **108**
  class name, 109
  layout semantics, 110
  resources, 109, 128
Box.h, 109, 127
BoxP.h, 109
boxWidgetClass, 109
ButtonPress, 140

**C**

C, note, **4**
CallbackProc, **12**
callbacks, 12
chapter format, **4**
child, 2
class header file, **4**
class name, **4**
class, **2**, **4**
client, **2**
Command widget, **18**
  actions, 21
  class name, 18
  resources, 19
  translation bindings, 22
Command.h, 18
CommandP.h, 18
commandWidgetClass, 18
compiling applications, 14
conventions:
  chapter format, **4**
  used in manual, **3**
conversions, **8**
  AsciiType, 90, 92
  BackingStore, 59
  Bitmap, **9**
  ColorCursor, **8**
  Cursor, **8**
  Gravity, 129
  Justify, 21, 27, 39, 53, 68
  Orientation, 43, 110, 121
  Pixel, **9**
  ShapeStyle, 21, 39, 54, 69
  Widget, 113, 118
  XawTextEditType, 88, 92, 99
  XawTextResizeMode, 89, 97
  XawTextScrollMode, 89, 98
Core widget, 133
creating new widgets, **133**
creating widgets, **7**
cursor, 8

**D**

D, note, **4**
destroyCallback, **13**

Dialog widget, 108, **111**
  automatically created children, 114
  class name, 111
  constraint resources, 113
  layout semantics, 113
  resources, 111
  special considerations, 114
Dialog.h, 111
DialogP.h, 111
dialogWidgetClass, 111

## E

events, 9
examples, 17

## F

fallback resources, **6**
FindPosition, 105
float resources:
  setting, 45
Form widget, 108, **115**
  class name, 115
  constraint resources, 117
  re-layout, 118
  resources, 116
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**
  actions, 24
  class name, 22
  GripAction routine, 24
  GripAction table, 25
  resources, 23
Grip.h, 22
GripAction, 123, 124
GripCallData, 25
GripP.h, 22
gripWidgetClass, 22

## H

horizDistance, 113, 118

## I

initialization, **6**
input focus, **5**
input, **5**
instance, **2**
Intrinsic.h, 13
introduction, **1**

## J

jumpProc, 44, **45**

## K

KeyPress, 140

## L

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

## M

MenuButton widget, **66**
  actions, 69
  class name, 66
  resources, 66

MenuButton.h, 66
MenuButtonP.h, 66
menuButtonWidgetClass, 66
Menus, 57
  popup, 57
  pulldown, 57
  using, 57
method, **2**

## N

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

## O

object, **2**

## P

Paned widget, 108, **118**
  change height settings, 124
  class name, 119
  constraint resources, 122
  disable auto-reconfiguring, 125
  disable pane resizing, 124
  enable auto-reconfiguring, 125
  enable pane resizing, 124
  get height settings, 124
  getting the number of children, 125
  layout semantics, 122
  resources, 119
  using, 119
Paned.h, 118
PanedP.h, 119
panedWidgetClass, 119
Panner widget, 18, **32**
  actions, 35
  callbacks, 36
  class name, 32
  default translation table, 36
  resources, 33
Panner.h, 32
PannerP.h, 32
pannerWidgetClass, 32
parent, **2**
pixel, 9
Porthole widget, 108, **125**
  callbacks, 127
  class name, 125
  layout semantics, 127
  resources, 125
Porthole.h, 125
PortholeP.h, 125
portholeWidgetClass, 125

## 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**
  actions, 40
  class name, 36
  resources, 36
  translation bindings, 40
Repeater.h, 36
RepeaterP.h, 36
repeaterWidgetClass, 36
ReportProc, **36**, **127**
resource, **2**, 7, 14
rgb.txt, 9

## S

Scrollbar widget, 18, **40**
  actions, 44
  callbacks, 44
  class name, 40
  default translation table, 44
  resources, 41
  setting thumb values, 45
Scrollbar.h, 40
ScrollbarP.h, 40
scrollbarWidgetClass, 40
ScrollProc, **44**
SetSelection, **102**
Simple widget, 18, **46**
  class name, 46
  resources, 46
simple widgets, 18
Simple.h, 46
SimpleMenP.h, 58
SimpleMenu widget, **58**
  actions, 60
  class name, 58
  default translations, 60
  MenuPopdown routine, 61
  positioning, **61**
  resources, 58
SimpleMenu.h, 58

simpleMenuWidgetClass, 58
SimpleP.h, 46
simpleWidgetClass, 46
Sme object, 57, **65**
  class name, 65
  Highlight routine, 65
  Notify routine, 66
  subclassing, 65
  Unhighlight routine, 65
Sme.h, 65
SmeBSB object, 57, **62**
  class name, 62
  resources, 62
SmeBSB.h, 62
smeBSBObjectClass, 62
SmeBSBP.h, 62
SmeLine object, 57, **64**
  class name, 64
  resources, 64, 65
SmeLine.h, 64
smeLineObjectClass, 64
SmeLineP.h, 64
smeObjectClass, 65
SmeP.h, 65
string conversions, **8**
StringDefs.h, 13
StripCharP.h, 48
StripChart widget, 18, **48**
  class name, 48
  getting the value, 50
  getValue callback, **50**
  resources, 48
StripChart.h, 48
stripChartWidgetClass, 48
subclassing, **133**
superclass, **2**, 4

## T

Text widget, **95**
  actions, **74**
  class name, 95
  ConvertSelection, **101**
  customizing, **94**
  default key bindings, 71
  default translations, 80
  edit modes, 71
  file insertion, 73
  query replace, 72
  resources, 95
  search, 72
  Text Selections for Application Programmers, 79
  Text Selections for Users, 74
  User’s Guide to the Text widget, 71
Text.h, 95
TextP.h, 95
TextSink object, 95, **102**
  class name, 102
  ClearToBackground, **104**
  DisplayText, **103**
  FindDistance, **105**
  FindPosition, **104**
  GetCursorBounds, **107**
  InsertCursor, **104**
  MaxHeight, **106**
  MaxLines, **106**
  Resolve, **105**
  SetTabs, **106**
  subclassing, **103**
TextSink.h, 102
textSinkObjectClass, 102
TextSinkP.h, 102
TextSrc object, 95, **98**
  class name, 99
  Read, **99**
  Replace, **100**
  resources, 99
  Scan, **100**
  Search, **101**
  subclassing, **99**
TextSrc.h, 98
textSrcObjectClass, 99
TextSrcP.h, 98
textWidgetClass, 95
Toggle widget, 18, **50**
  actions, 54
  class name, 50
  default translation table, 54
  resources, 51
  used in radio groups, 51
Toggle.h, 50
ToggleP.h, 50
toggleWidgetClass, 50
toolkit initialization, **6**
Tree widget, 108, **127**
  class name, 127
  constraint resources, 129
  convenience routines, 130
  layout semantics, 129
TreeP.h, 127
treeWidgetClass, 127

type conversions, **8**

## U

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

## V

vertDistance, 113, 118
Viewport widget, 108, **130**
  class name, 130
  layout semantics, 132
  resources, 130
Viewport.h, 130
ViewportP.h, 130
viewportWidgetClass, 130

## W

widget class, **3**
widget creation, **7**
widget programmer, **3**
widget, **3**
widgetClass, 133
Window widget, 133
WrapMode, 90, 98
writing applications, 13

## X

XawAsciiSave, **93**
XawAsciiSaveAsFile, **93**
XawAsciiSourceChanged, **93**
XawAsciiSourceFreeString, **93**, 115
XawChain, 114, 118
XawChainBottom, 114, 118
XawChainLeft, 114, 118
XawChainRight, 114, 118
XawChainTop, 114, 118
XawDialogAddButton, **115**
XawDialogGetValueString, **114**
XawEdgeType, 113, 117
XawEditDone, 83, 100
XawEditError, 83, 100
XawFormDoLayout, **118**
XawGripCallData, **24**, 25
XawGripCallDataRec, **24**, 25
XawListChange, **31**, 32
XawListHighlight, **32**
XawListReturnStruct, **31**, 32
XawListShowCurrent, **32**
XawListUnhighlight, **32**
XawPanedAllowResize, **124**
XawPanedGetMinMax, **124**
XawPanedGetNumSub, **125**
XawPanedSetMinMax, **124**
XawPanedSetRefigureMode, **125**
XawPositionError, 83, 100
XawPositionSimpleMenu, **61**, 62
XawRubber, 113, 114, 117, 118
XawScrollbarSetThumb, **45**
XawScrollbarThumb, 45
XawsdLeft, 101
XawsdRight, 101
XawselectAll, 80
XawselectChar, 80
XawselectLine, 80
XawselectNull, 80
XawselectParagraph, 80
XawselectPosition, 80
XawselectWord, 80
XawSimpleMenuAddGlobalActions, **62**
XawSimpleMenuClearActiveEntry, **62**
XawSimpleMenuGetActiveEntry, **62**
XawstAll, 101
XawstEOL, 101
XawstParagraph, 101
XawstPositions, 101
XawstWhiteSpace, 101
XawtextAppend, 88, 92, 99
XawTextBlock, **82**
XawTextBlockPtr, 82
XawTextDisableRedisplay, **84**
XawTextDisplay, **84**
XawTextDisplayCaret, **85**
XawtextEdit, 88, 92, 99
XawTextEnableRedisplay, **84**
XawTextGetInsertionPoint, **85**
XawTextGetSelectionPos, **82**
XawTextGetSource, **85**
XawTextInvalidate, **83**
XawTextPosition, **81**
XawtextRead, 88, 92, 99
XawTextReplace, 71, **83**
XawtextResizeBoth, 89, 98
XawtextResizeHeight, 89, 98
XawtextResizeNever, 89, 97
XawtextResizeWidth, 89, 97
XawtextScrollAlways, 89, 98
XawtextScrollNever, 89, 98
XawtextScrollWhenNeeded, 89, 98
XawTextSearch, **83**
XawTextSearchError, 101
XawTextSetInsertionPoint, **85**

XawTextSetSelection, **82**
XawTextSetSelectionArray, 79, **84**
XawTextSetSource, **85**
XawTextSinkClearToBackground, 103
XawTextSinkDisplayText, 103
XawTextSinkFindDistance, 103
XawTextSinkFindPosition, 103
XawTextSinkGetCursorBounds, 103
XawTextSinkInsertCursor, 103
XawTextSinkMaxHeight, 103
XawTextSinkMaxLines, 103
XawTextSinkResolve, 103
XawTextSinkSetTabs, 103
XawTextSourceConvertSelection, 99
XawTextSourceRead, 99
XawTextSourceReplace, 99
XawTextSourceScan, 99
XawTextSourceSearch, 99
XawTextSourceSetSelection, 99
XawTextTopPosition, 84
XawTextUnsetSelection, **82**
XawtextWrapLine, 90, 98
XawtextWrapNever, 90, 98
XawtextWrapWord, 90, 98
XawToggleChangeRadioGroup, **55**
XawToggleGetCurrent, **56**
XawToggleSetCurrent, **56**
XawToggleUnsetCurrent, **56**
XawTreeForceLayout, **130**
XawWMProtocols, 79
XAW_LIST_NONE, 32
xrdb, 14
XrmParseCommand, 6
XtAddCallback, **12**, 13, 14
XtAddCallbacks, 12
XtAppInitialize, **6**, 9, 13
XtAppMainLoop, **9**, 14
XtCallbackList, **12**
XtCallbackProc, 12
XtCallbackRec, **12**
XtCreateManagedWidget, **7**, 14
XtCreateWidget, 10, 12
XtDefaultBackground, 8, 9
XtDefaultForeground, 8, 9
XtDestroyWidget, **11**
XtError, 7
XtGetApplicationResources, 16
XtGetValues, **11**, 12, 140, 141
XtInheritClearToBackground, 103, 104
XtInheritConvertSelection, 99
XtInheritDisplayText, 103
XtInheritFindDistance, 103
XtInheritFindPosition, 103
XtInheritGetCursorBounds, 103
XtInheritInsertCursor, 103
XtInheritMaxHeight, 103
XtInheritMaxLines, 103
XtInheritRead, 99
XtInheritReplace, 99
XtInheritResolve, 103
XtInheritScan, 99
XtInheritSearch, 99
XtInheritSetSelection, 99
XtInheritSetTabs, 103
XtManageChildren, **10**
XtMapWidget, **10**
XtMoveWidget, 108
XtN, **13**
XtNameToWidget, 114, 132
XtNcallback, 14
XtNinput, **5**
XtNumber, 16, 17
XtorientHorizontal, 43, 110, **111**, 121
XtorientVertical, 43, **110**, 121
XtRealizeWidget, 7, **9**, 10, 14
XtResizeWidget, 108
XtSetArg, **16**, 17
XtSetMappedWhenManaged, **10**
XtSetValues, **11**, 12, 108, 134, 136
XtWindow, 141

**_**

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