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
  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

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**
XawWMProtocols, 80
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