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

B

bitmap conversions, **9**
BitmapFilePath, **9**
bitmapFilePath, **9**
Box widget, **108**
  class name, 108
  layout semantics, 110
  resources, 109, 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 header file, **4**
class name, **4**
class, **2**, **4**
client, **2**
Command widget, **18**
  actions, 22
  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, 91, 93
  BackingStore, 60
  Bitmap, **9**
  ColorCursor, **9**
  Cursor, **9**
  Gravity, 128
  Justify, 21, 27, 39, 53, 69
  Orientation, 43, 110, 121
  Pixel, **9**
  ShapeStyle, 21, 40, 54, 70
  Widget, 113, 117
  XawTextEditType, 89, 93, 100
  XawTextResizeMode, 90, 98
  XawTextScrollMode, 90, 98
Core widget, 132
creating new widgets, **132**
creating widgets, **7**
cursor, 9

D

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

Dialog widget, 108, **110**
  automatically created children, 114
  class name, 111
  constraint resources, 112
  layout semantics, 113
  resources, 111
  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, 46
FMT8BIT, 83
Form widget, 108, **115**
  class name, 115
  constraint resources, 116
  re-layout, 118
  resources, 115
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
GripCallData, 25
GripP.h, 22
gripWidgetClass, 22

H

horizDistance, 113, 117

I

initialization, **6**
input focus, **5**
Input Method, 80
input, **5**
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**
  actions, 31
  callbacks, 31
  class name, 28
  default translation table, 31
  resources, 28
List.h, 28
ListP.h, 28
listWidgetClass, 28

locale, 6

M

MenuButton widget, **67**
  actions, 70
  class name, 67
  resources, 67
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**
  change height settings, 123
  class name, 118
  constraint resources, 121
  disable auto-reconfiguring, 124
  disable pane resizing, 123
  enable auto-reconfiguring, 124
  enable pane resizing, 123
  get height settings, 124
  getting the number of children, 124
  layout semantics, 122
  resources, 119
  using, 118
Paned.h, 118
PanedP.h, 118
panedWidgetClass, 118
Panner widget, 18, **33**
  actions, 36
  callbacks, 36
  class name, 33
  default translation table, 36
  resources, 33
Panner.h, 33
PannerP.h, 33
pannerWidgetClass, 33
parent, **2**
pixel, 9
Porthole widget, 108, **124**
  callbacks, 126
  class name, 124
  layout semantics, 126
  resources, 125
Porthole.h, 124
PortholeP.h, 124
portholeWidgetClass, 124

R

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

S

Scrollbar widget, 18, **41**
  actions, 44
  callbacks, 44
  class name, 41
  default translation table, 44
  resources, 41
  setting thumb values, 45
Scrollbar.h, 41
ScrollbarP.h, 41
scrollbarWidgetClass, 41
ScrollProc, **44**
SetSelection, **102**
Simple widget, 18, **46**
  class name, 46
  resources, 46
simple widgets, 18

Simple.h, 46
SimpleMenP.h, 59
SimpleMenu widget, **58**
  actions, 61
  class name, 59
  default translations, 61
  MenuPopdown routine, 61, 62
  positioning, **62**
  resources, 59
SimpleMenu.h, 58
simpleMenuWidgetClass, 59
SimpleP.h, 46
simpleWidgetClass, 46
Sme object, 58, **65**
  class name, 66
  Highlight method, 66
  Notify method, 66
  subclassing, 66
  Unhighlight method, 66
Sme.h, 65
SmeBSB object, 58, **63**
  class name, 63
  resources, 63
SmeBSB.h, 63
smeBSBObjectClass, 63
SmeBSBP.h, 63
SmeLine object, 58, **65**
  class name, 65
  resources, 65, 66
SmeLine.h, 65
smeLineObjectClass, 65
SmeLineP.h, 65
smeObjectClass, 66
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, **132**
superclass, **2**, 4

T

Text widget, 95, **96**
  actions, **75**
  class name, 96
  ConvertSelection, **102**
  customizing, **95**
  default key bindings, 72
  default translations, 81
  edit modes, 72
  file insertion, 74
  query replace, 73
  resources, 96
  search, 73
  Text Selections for Application Programmers, 80
  Text Selections for Users, 75
  User's Guide to the Text widget, 72
Text.h, 96
TextP.h, 96
TextSink object, 95, **102**
  class name, 103
  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, 103
TextSinkP.h, 102
TextSrc object, 96, **99**
  class name, 99
  Read, **100**
  Replace, **100**
  resources, 99
  Scan, **101**
  Search, **101**
  subclassing, **100**
TextSrc.h, 99
textSrcObjectClass, 99
TextSrcP.h, 99
textWidgetClass, 96
Toggle widget, 18, **51**
  actions, 55
  class name, 51
  default translation table, 55
  resources, 51
  used in radio groups, 51
Toggle.h, 51
TogglePP.h, 51
toggleWidgetClass, 51
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
layout semantics, 131
resources, 129
Viewport.h, 129
ViewportP.h, 129
viewportWidgetClass, 129

W

widget class, **3**
widget creation, **7**
widget programmer, **3**
widget, **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, 118
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, 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, **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, **57**
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**