## NAME

XtGrabKey, XtUngrabKey, XtGrabKeyboard, XtUngrabKeyboard, XtGrabButton, XtUngrabButton, XtGrabPointer, XtUngrabPointer - manage grabs

# SYNTAX

#include <X11/Intrinsic.h>

- void XtGrabKey(Widget widget, KeyCode keycode, Modifiers modifiers, Boolean owner\_events, int
  pointer\_mode, int keyboard\_mode);
- void XtUngrabKey(Widget widget, KeyCode keycode, Modifiers modifiers);

int XtGrabKeyboard(Widget widget, Boolean owner\_events, int pointer\_mode, int keyboard\_mode, Time time);

- void XtUngrabKeyboard(Widget widget, Time time);
- void XtGrabButton(Widget *widget*, int *button*, Modifiers *modifiers*, Boolean *owner\_events*, unsigned int *event\_mask*, int *pointer\_mode*, int *keyboard\_mode*, Window *confine\_to*, Cursor *cursor*);

void XtUngrabButton(Widget widget, unsigned button, Modifiers modifiers);

int XtGrabPointer(Widget *widget*, Boolean *owner\_events*, unsigned int *event\_mask*, int *pointer\_mode*, int *keyboard\_mode*, Window *confine\_to*, Cursor *cursor*, Time *time*);

void XtUngrabPointer(Widget widget, Time time);

## ARGUMENTS

*widget* Specifies the widget in whose window the grab will occur. Must be of class Core or a subclass thereof.

keycode

modifiers

owner\_events

pointer\_mode

keyboard\_mode

time	
button	
confine_to	
cursor	Specifies arguments to the associated Xlib function call.

## DESCRIPTION

**XtGrabKey** calls **XGrabKey** specifying the widget's window as the grab window if the widget is realized. The remaining arguments are exactly as for **XGrabKey**. If the widget is not realized, or is later unrealized, the call to **XGrabKey** will be performed (again) when the widget is realized and its window becomes mapped. In the future, if **XtDispatchEvent** is called with a **KeyPress** event matching the specified keycode and modifiers (which may be **AnyKey** or **AnyModifier**, respectively) for the widget's window, the Intrinsics will call **XtUngrabKeyboard** with the timestamp from the **KeyPress** event if either of the following conditions is true:

- There is a modal cascade and the widget is not in the active subset of the cascade and the keyboard was not previously grabbed, or
- XFilterEvent returns True.

**XtUngrabKey** calls **XUngrabKey** specifying the widget's window as the ungrab window if the widget is realized. The remaining arguments are exactly as for **XUngrabKey**. If the widget is not realized, **XtUngrabKey** removes a deferred **XtGrabKey** request, if any, for the specified widget, keycode, and modifiers.

If the specified widget is realized **XtGrabKeyboard** calls **XGrabKeyboard** specifying the widget's window as the grab window. The remaining arguments and return value are exactly as for **XGrabKeyboard**. If the widget is not realized, **XtGrabKeyboard** immediately returns **GrabNotViewable**. No future ungrab is implied by **XtGrabKeyboard**.

XtUngrabKeyboard calls XUngrabKeyboard with the specified time.

**XtGrabButton** calls **XGrabButton** specifying the widget's window as the grab window if the widget is realized. The remaining arguments are exactly as for **XGrabButton**. If the widget is not realized, or is later unrealized, the call to **XGrabButton** will be performed (again) when the widget is realized and its window becomes mapped. In the future, if **XtDispatchEvent** is called with a **ButtonPress** event matching the specified button and modifiers (which may be **AnyButton** or **AnyModifier**, respectively) for the widget's window, the Intrinsics will call **XtUngrabPointer** with the timestamp from the

**ButtonPress** event if either of the following conditions is true:

- There is a modal cascade and the widget is not in the active subset of the cascade and the pointer was not previously grabbed, or
- XFilterEvent returns True.

**XtUngrabButton** calls **XUngrabButton** specifying the widget's window as the ungrab window if the widget is realized. The remaining arguments are exactly as for **XUngrabButton**. If the widget is not realized, **XtUngrabButton** removes a deferred **XtGrabButton** request, if any, for the specified widget, button, and modifiers.

**XtGrabPointer** calls **XGrabPointer** specifying the widget's window as the grab window. The remaining arguments and return value are exactly as for **XGrabPointer**. If the widget is not realized, **XtGrabPointer** immediately returns **GrabNotViewable**. No future ungrab is implied by **XtGrabPointer**.

XtUngrabPointer calls XUngrabPointer with the specified time.

## SEE ALSO

X Toolkit Intrinsics - C Language Interface Xlib - C Language X Interface