## NAME

XtPopup, XtPopupSpringLoaded, XtCallbackNone, XtCallbackNonexclusive, XtCallbackExclu
a pop-up

## SYNTAX

void XtPopup(Widget *popup_shell*, XtGrabKind *grab_kind*);

void XtPopupSpringLoaded(Widget *popup_shell*);

void XtCallbackNone(Widget *w*, XtPointer *client_data*, XtPointer *call_data*):

void XtCallbackNonexclusive(Widget *w*, XtPointer *client_data*, XtPointer *call_data*);

void XtCallbackExclusive(Widget *w*, XtPointer *client_data*, XtPointer *call_data*);

void MenuPopup(String *shell_name*);

## ARGUMENTS

| | |
|---|---|
| *call_data* | Specifies the callback data, which is not used by this procedure. |
| *client_data* | Specifies the pop-up shell. |
| *grab_kind* | Specifies the way in which user events should be constrained. |
| *popup_shell* | Specifies the widget shell. |
| *w* | Specifies the widget. |

## DESCRIPTION

The **XtPopup** function performs the following:

- Calls **XtCheckSubclass** to ensure popup_shell is a subclass of **Shell**.
- Generates an error if the shell's popped_up field is already **True**.
- Calls the callback procedures on the shell's popup_callback list.
- Sets the shell popped_up field to **True**, the shell spring_loaded field to **False**, and the shell grab_kind field from grab_kind.
- If the shell's create_popup_child field is non-NULL, **XtPopup** calls it with popup_shell as the parameter.
- If grab_kind is either **XtGrabNonexclusive** or **XtGrabExclusive**, it calls:

- Calls **XMapWindow** with popup_shell specified.

The **XtPopupSpringLoaded** function performs exactly as **XtPopup** except that it sets the shell *spring_loaded* field to **True** and always calls **XtAddGrab** with *exclusive* **True** and *spring_loaded* **True**.

The **XtCallbackNone**, **XtCallbackNonexclusive**, and **XtCallbackExclusive** functions call **XtPopup** with the shell specified by the client data argument and grab_kind set as the name specifies. **XtCallbackNone**, **XtCallbackNonexclusive**, and **XtCallbackExclusive** specify **XtGrabNone**, **XtGrabNonexclusive**, and **XtGrabExclusive**, respectively. Each function then sets the widget that executed the callback list to be insensitive by using **XtSetSensitive**. Using these functions in callbacks is not required. In particular,

an application must provide customized code for callbacks that create pop-up shells dyn
must do more than desensitizing the button.

**MenuPopup** is known to the translation manager, which must perform special actions f
pop-ups. Calls to **MenuPopup** in a translation specification are mapped into calls to a p
procedure, and the translation manager fills in parameters based on the event specified o
of a translation.

If **MenuPopup** is invoked on **ButtonPress** (possibly with modifiers), the translation man
shell with grab_kind set to **XtGrabExclusive** and spring_loaded set to **True**. If **MenuPo**
on **EnterWindow** (possibly with modifiers), the translation manager pops up the shell with
to **XtGrabNonexclusive** and spring_loaded set to **False**. Otherwise, the translation manage
error. When the widget is popped up, the following actions occur:

- Calls **XtCheckSubclass** to ensure popup_shell is a subclass of **Shell**.
- Generates an error if the shell's popped_up field is already **True**.
- Calls the callback procedures on the shell's popup_callback list.
- Sets the shell popped_up field to **True** and the shell grab_kind and spring_loaded fields appropriately.
- If the shell's create_popup_child field is non-NULL, it is called with popup_shell as the parameter.
- Calls:

- Calls **XMapWindow** with popup_shell specified.

(Note that these actions are the same as those for **XtPopup**.) **MenuPopup** tries to find the shell by searching the widget tree starting at the parent of the widget in which it is invoked. If it finds a shell with the specified name in the pop-up children of that parent, it pops up the shell with the appropriate parameters. Otherwise, it moves up the parent chain as needed. If **MenuPopup** gets to the application widget and cannot find a matching shell, it generates an error.

## SEE ALSO

XtCreatePopupShell(3), XtPopdown(3)
*X Toolkit Intrinsics − C Language Interface*
*Xlib − C Language X Interface*