

NAME

XtPopup, XtPopupSpringLoaded, XtCallbackNone, XtCallbackNonexclusive, XtCallbackExclusive - map a pop-up

SYNTAX

```
#include <X11/Intrinsic.h>
```

```
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);
```

ACTIONS

```
void XtMenuPopup(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:


```
XtAddGrab(popup_shell, (grab_kind == XtGrabExclusive), False)
```
- ⊕ Calls **XtRealizeWidget** with `popup_shell` specified.
- ⊕ 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 dynamically or that must do more than desensitizing the button.

XtMenuPopup is known to the translation manager, which must perform special actions for spring-loaded pop-ups. Calls to **XtMenuPopup** in a translation specification are mapped into calls to a nonexported action procedure, and the translation manager fills in parameters based on the event specified on the left-hand side of a translation.

If **XtMenuPopup** is invoked on **ButtonPress** (possibly with modifiers), the translation manager pops up the shell with `grab_kind` set to **XtGrabExclusive** and `spring_loaded` set to **True**. If **XtMenuPopup** is invoked on **EnterWindow** (possibly with modifiers), the translation manager pops up the shell with `grab_kind` set to **XtGrabNonexclusive** and `spring_loaded` set to **False**. Otherwise, the translation manager generates an 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:

`XtAddGrab(popup_shell, (grab_kind == XtGrabExclusive), spring_loaded)`
- ⊕ Calls **XtRealizeWidget** with `popup_shell` specified.
- ⊕ Calls **XMapWindow** with `popup_shell` specified.

(Note that these actions are the same as those for **XtPopup**.) **XtMenuPopup** 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 **XtMenuPopup** gets to the application widget and cannot find a matching shell, it generates an error.

SEE ALSO

`XtCreatePopupShell(3)`, `XtPopdown(3)`
X Toolkit Intrinsic - C Language Interface
Xlib - C Language X Interface