

XtOpenApplication, XtVaOpenApplication – initialize, open, or close a display

Widget XtOpenApplication(*app_context_return*, *application_class*, *options*, *num_options*, *argc_in_out*, *argv_in_out*, *fallback_resources*, *widget_class*, *args*, *num_args*)

```
XtAppContext app_context_return;  
String application_class;  
XrmOptionDescRec* options;  
Cardinal num_options;  
int* argc_in_out;  
String* argv_in_out;  
String* fallback_resources;  
WidgetClass widget_class;  
ArgList args;  
Cardinal num_args;
```

Widget XtVaOpenApplication(*app_context_return*, *application_class*, *options*, *num_options*, *argc_in_out*, *argv_in_out*, *fallback_resources*, *widget_class*, ...)

```
XtAppContext app_context_return;  
String application_class;  
XrmOptionDescRec* options;  
Cardinal num_options;  
int* argc_in_out;  
String* argv_in_out;  
String* fallback_resources;  
WidgetClass widget_class;
```

app_context_return

Specifies the application context.

application_class Specifies the class name of this application, which usually is the generic name for all instances of this application.

options Specifies how to parse the command line for any application-specific resources. The options argument is passed as a parameter to **XrmParseCommand**. For further information, see *Xlib – C Language X Interface*.

num_options Specifies the number of entries in the options list.

argc_in_out Specifies a pointer to the number of command line parameters.

argv_in_out Specifies the command line parameters.

fallback_resources Specifies resource values to be used if the application class resource file cannot be opened or read, or NULL.

widget_class Specifies the widget class of the shell to be created.

args Specifies the argument list to override any other resource specification for the created shell widget.

num_args Specifies the number of entries in the argument list.

... Specifies the variable argument list to override any other resource specification for the created shell widget.

The XtOpenApplication function calls **XtToolkitInitialize** followed by **XtCreateApplicationContext**, then calls **XtOpenDisplay** with *display_string* NULL and *application_name* NULL, and finally calls **XtAppCreateShell** with *application_name* NULL, *widget_class* **applicationShellWidgetClass**, and the specified *args* and *num_args* and returns the created shell. The modified *argc* and *argv* returned by **XtDisplayInitialize** are returned in *argc_in_out* and *argv_in_out*. If *app_context_return* is not NULL, the created application context is also returned. If the display specified by the command line cannot be opened, an error message is issued and **XtOpenApplication** terminates the application. If *fallback_resources* is

non-NULL, **XtAppSetFallbackResources** is called with the value prior to calling **XtOpenDisplay**.

XtAppInitialize and **XtVaAppInitialize** have been superseded by **XtOpenApplication** and **XtVaOpenApplication** respectively.

XtOpenApplication(3Xt), XtVaOpenApplication(3Xt)

X Toolkit Intrinsic – C Language Interface

Xlib – C Language X Interface