

NAME

XtAppInitialize, XtVaAppInitialize – initialize, open, or close a display

SYNTAX

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

```
Widget XtAppInitialize(XtAppContext* app_context_return, const char *application_class, XrmOption-
DescRec* options, Cardinal num_options, int *argc_in_out, char **argv_in_out, String *fall-
back_resources, ArgList args, Cardinal num_args);
```

```
Widget XtVaAppInitialize(XtAppContext* app_context_return, const char *application_class, XrmOption-
DescRec* options, Cardinal num_options, int *argc_in_out, char **argv_in_out, String *fall-
back_resources, ...);
```

ARGUMENTS

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.

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.

DESCRIPTION

The **XtAppInitialize** 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 **XtAppInitialize** 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.

SEE ALSO

XtOpenApplication(3), XtVaOpenApplication(3)

X Toolkit Intrinsics – C Language Interface

Xlib – C Language X Interface