



Linux Ubuntu 26.04 Manual Pages on command 'XtDisplayInitialize.3'

\$ man XtDisplayInitialize.3

XtDisplayInitialize(3) XT FUNCTIONS XtDisplayInitialize(3)

NAME

XtDisplayInitialize, XtOpenDisplay, XtDatabase, XtScreenDatabase, XtCloseDisplay - initial?
ize, open, or close a display

SYNTAX

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

void XtDisplayInitialize(XtAppContext app_context, Display *display, const char *applica?
    tion_name, const char *application_class, XrmOptionDescRec *options, Cardinal num_op?
    tions, int *argc, char **argv);

Display *XtOpenDisplay(XtAppContext app_context, const char *display_string, const char *ap?
    plication_name, const char *application_class, XrmOptionDescRec *options, Cardinal
    num_options, int *argc, char **argv);

void XtCloseDisplay(Display *display);

XrmDatabase XtDatabase(Display *display);

XrmDatabase XtScreenDatabase(Screen* screen);
```

ARGUMENTS

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

argv Specifies the command line parameters.

app_context

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.

`application_name`

Specifies the name of the application instance.

`display` Specifies the display. Note that a display can be in at most one application context.
text.

`num_options`

Specifies the number of entries in the options list.

`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`.

`screen` Specifies the screen whose resource database is to be returned.

DESCRIPTION

The `XtDisplayInitialize` function builds the resource database, calls the `Xlib XrmParseCommand` function to parse the command line, and performs other per display initialization. After `XrmParseCommand` has been called, `argc` and `argv` contain only those parameters that were not in the standard option table or in the table specified by the options argument. If the modified `argc` is not zero, most applications simply print out the modified `argv` along with a message listing the allowable options. On UNIX-based systems, the application name is usually the final component of `argv[0]`. If the `synchronize` resource is `True` for the specified application, `XtDisplayInitialize` calls the `Xlib XSynchronize` function to put `Xlib` into synchronous mode for this display connection. If the `reverseVideo` resource is `True`, the `Intinsics` exchange `XtDefaultForeground` and `XtDefaultBackground` for widgets created on this display. (See Section 9.6.1).

The `XtOpenDisplay` function calls `XOpenDisplay` the specified display name. If `display_string` is `NULL`, `XtOpenDisplay` uses the current value of the `-display` option specified in `argv` and if no display is specified in `argv`, uses the user's default display (on UNIX-based systems, this is the value of the `DISPLAY` environment variable).

If this succeeds, it then calls `XtDisplayInitialize` and pass it the opened display and the value of the `-name` option specified in `argv` as the application name. If no name option is specified, it uses the application name passed to `XtOpenDisplay`. If the application name is `NULL`, it uses the last component of `argv[0]`. `XtOpenDisplay` returns the newly opened display or `NULL` if it failed.

`XtOpenDisplay` is provided as a convenience to the application programmer.

The `XtCloseDisplay` function closes the specified display as soon as it is safe to do so. If

called from within an event dispatch (for example, a callback procedure), `XtCloseDisplay` does not close the display until the dispatch is complete. Note that applications need only call `XtCloseDisplay` if they are to continue executing after closing the display; otherwise, they should call `XtDestroyApplicationContext` or just exit.

The `XtDatabase` function returns the fully merged resource database that was built by `XtDisplayInitialize` associated with the display that was passed in. If this display has not been initialized by `XtDisplayInitialize`, the results are not defined.

The `XtScreenDatabase` function returns the fully merged resource database associated with the specified screen. If the screen does not belong to a Display initialized by `XtDisplayInitialize`, the results are undefined.

SEE ALSO

`XtAppCreateShell(3)`, `XtCreateApplicationContext(3)`

X Toolkit Intrinsics - C Language Interface

Xlib - C Language X Interface

X Version 11

libXt 1.2.1

`XtDisplayInitialize(3)`