



GTK::V3::Gtk::GtkMain

Main loop and Events – Library initialization, main event loop, and events

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```
unit class GTK::V3::Gtk::GtkMain;
```

Synopsis

```
my GTK::V3::Gtk::GtkMain $main .= new;

# Setup user interface
...
# Start main loop
$main.gtk_main;

# Elsewhere in some exit handler
method exit ( ) {
    GTK::V3::Gtk::GtkMain.new.gtk_main_quit;
}
```

Methods

new

Create a GtkMain object. Initialization of GTK is automatically executed if not already done. Arguments from the command line are provided to this process.

```
submethod BUILD ( Bool :$check )
```

- `$check`; Use checked initialization. Program will not fail when commandline arguments do not parse properly.

gtk_events_pending Checks if any events are pending.

This can be used to update the UI and invoke timeouts etc. while doing some time intensive computation.

```
method gtk_events_pending ( )
```

Example

```
# Computation going on ...  
  
$main.gtk_main_iteration() while ( $main.gtk_events_pending() );  
  
# Computation continued ...
```

gtk_main

Runs the main loop until `gtk_main_quit()` is called. You can nest calls to `gtk_main()`. In that case `gtk_main_quit()` will make the innermost invocation of the main loop return.

```
method gtk_main ( )
```

gtk_main_level

Returns the current nesting level of the main loop.

```
method gtk_main_level ( --> Int )
```

gtk_main_quit

Makes the innermost invocation of the main loop return when it regains control.

```
method gtk_main_quit ( )
```

gtk_main_iteration

Runs a single iteration of the mainloop.

If no events are waiting to be processed GTK+ will block until the next event is noticed. If you don't want to block look at `gtk_main_iteration_do()` or check if any events are pending with `gtk_events_pending()` first.

```
method gtk_main_iteration ( --> Int )
```

Returns 1 if `gtk_main_quit()` has been called for the innermost mainloop

gtk_main_iteration_do

Runs a single iteration of the mainloop. If no events are available either return or block depending on the value of blocking.

```
method gtk_main_iteration_do ( Int $blocking --> Int )
```

- `$blocking`; 1 if you want GTK+ to block if no events are pending.

Returns 1 if `gtk_main_quit()` has been called for the innermost mainloop

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