
Subject: Embedding a third-party GtkWidget into a U++ Ctrl on Linux

Posted by [forlano](#) on Sat, 23 May 2026 13:25:00 GMT

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Hello,

I am building a cross-platform `WebViewCtrl` that embeds a native browser engine: `WebView2` on Windows, `WKWebView` on macOS, and `WebKitGTK` on Linux.

On Windows and macOS the approach works well: I obtain the native window handle (`HWND` via `GetHWND()` on Windows, `NSView*` via `GetNSView()` on macOS) from the `TopWindow`, then I embed the browser engine as a child of that handle.

On Linux I am struggling to find the correct way to embed a `GtkWidget*` (specifically a `WebKitWebView`) as a child of the U++ window.

What I have found so far:

Looking at the U++ source I found this in `GtkCtrl.h`:

```
struct Win : Moveable<Win> {
    GtkWidget *gtk;

    ...
};
```

And `TopWindow` has a public method:

```
```cpp
GtkWindow* gtk() const;
```
```

Using `top->gtk()` I can get the `GtkWindow*` of the `TopWindow`. However, `gtk_container_get_children()` on it always returns an empty list — the `GtkFixed` (drawing_area) that U++ uses internally to position child `Ctrl`'s appears to not be a direct GTK child of the `GtkWindow`, or is added after the point where my `Init()` is called.

What I need:

A way to obtain the `GtkWidget*` of the `drawing_area` (the `GtkFixed` where U++ places its child controls), so I can call:

```
gtk_fixed_put(GTK_FIXED(drawing_area), GTK_WIDGET(webKitWebView), x, y);
gtk_fixed_move(GTK_FIXED(drawing_area), GTK_WIDGET(webKitWebView), x, y);
gtk_widget_set_size_request(GTK_WIDGET(webKitWebView), w, h);
```

****Questions:****

1. Is there a public API in U++ to retrieve the ``drawing_area`` ``GtkWidget*`` from a ``Ctrl`` or ``TopWindow``?
2. Is there a recommended way to embed a third-party ``GtkWidget`` as a child of a U++ ``Ctrl`` on Linux?
3. Would ``DHCtrl`` be the right approach here? If so, is there an example of using it with an external ``GtkWidget``?

Thank you very much.
Luigi
