wxErlang

wxWidgets

- GUI C++ library

- Started in 1992 by Julian Smart

- Object oriented

- Languages bindings like Python, Perl, Ruby, Erlang, etc

- Supported platforms: wxGTK, wxMSW, wxOSX/Cocoa, wxQt, wxX11, wxMotif

- https://docs.wxwidgets.org/2.8/wx_classref.html#classref

wxErlang

- Binding for wxWidgets

- Functional instead of OO

- Events as process messages

- Allow multiple Erlang process to handle the same app

- Manual memory handling :(

Example 1 (erl)

```
1> wx:new().
{wx_ref,0,wx,[]}

2> M = wxMessageDialog:new(wx:null(), "Hello World").
{wx_ref,35,wxMessageDialog,[]}

3> wxMessageDialog:showModal(M).
5100

4> wxMessageDialog:destroy(M).
ok
```

Example 2 (iex)

```
1> :wx.new()
{:wx_ref, 0, :wx, []}

2> m = :wxMessageDialog.new(:wx.null(), 'Hello World')
{:wx_ref, 35, :wxMessageDialog, []}

3> :wxMessageDialog.showModal(m)
5100

4> :wxMessageDialog.destroy(M)
ok
```

Example 3

- wxFrame

- wxTextCtrl

- wxFont

- Callback event

- /usr/local/Cellar/erlang/21.2.2/lib/erlang/lib/wx-1.8.6/include/wx.hrl

Example 4

- wx_object behavior

- Sizers

- wxPanel

- Device context

OTP Examples

- :wx.demo()

- :observer.start()

- :debugger.start()

- https://github.com/erlang/otp/tree/master/lib/wx/examples

Links

- http://erlang.org/doc/apps/wx/wx.pdf

- https://arifishaq.files.wordpress.com/2017/12/wxerlang-getting-started.pdf

- https://arifishaq.files.wordpress.com/2018/04/wxerlang-speeding-up.pdf

- https://wtfleming.github.io/2016/01/06/getting-started-opengl-elixir/

- https://docs.wxwidgets.org/3.0/