# The Experienced Man's Notes for $\frac{\text{Cross-Platform GUI Programming with wxWidgets}}{\text{Version } 1.0}$

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#### Abstract

Over the course of using Cross-Platform GUI Programming with wxWidgets every day for about two years, I amassed a bunch of clarifications to sections in the book. I'd like to share them with you here.

I recommend printing this book, then inserting each page into its logical location in the the wxWidgets book — to keep this information close at hand when you crack open your copy to look something up. Personally, I have taped these pages so they fold outwards, giving me three or four "open" pages at one time (without hiding the original book text).

#### **Event Tables and Handlers**

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See Appendix I in  $\underline{\text{Cross-Platform GUI Programming with wxWidgets}}$  for a list of these and parameters for each.

An alternative way of writing the MyTextCtrl::OnChar function is:

```
void MyTextCtrl::OnChar(wxKeyEvent& event)
{
    if ( wxIsalpha( event.KeyCode() ) )
    {
        event.Skip(true); //true is default parameter
}
    else
    {
        // Illegal Keystroke. Eat the event up: we "handled" it
        wxBell();
        event.Skip(false);
    }
}
```

See page 176 for a list of key codes.

## **Defining Custom Events**

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In the following chunk of code:

DECLARE\_EVENT\_TABLE(name, integer)

You could use some of the standard event IDs, for the integer parameter, found in #include < wx/event.h >.

See also macros wx\_DECLARE\_EVT0, wx\_DECLARE\_EVT1, and wx\_DECLARE\_EVT2 to create event table entries that accept 0, 1, and 2 items, respectively.

#### Programatically Sending Events (additional comments)

## **Defining Custom Events**

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Refer to Handling Events and Handling UI Updates on pages 249 and 250.

Sizing Page 42

GetSize() returns the size of the window (how much the window would like to take up — either what you set it for via SetSize() or how much it wants to take up with sizers...at least, this seems to be the case).

GetBestSize() returns the  $\underline{\text{minimal}}$  size the window's content takes up (equal to size used when Fit() is called).

# ${\bf wxControlWithItems}$

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For more information on wxListBox, wxCheckListBox, wxChoice, and wxComboBox, see pages 90–98.

> \_Ryan Wilcox

The global wxTopLevelWindows variable is a reference to a wxWindowList object (which is of type wxList. For more information on wxList, see page 383). To use wxTopLevelWindows to get the oldest top-most frame, use wxTopLevelWindows.GetFirst(). Note that this might not be the front-most top level window.

```
To get the front-most window, use:
```

```
wxTopLevelWindow* output = NULL;
#if __WXMAC__
         #include "wx/mac/private.h"
         output = static_cast <wxTopLevelWindow*>(wxFindWinFromMacWindow(FrontWindow()));
#else
         output = ::wxGetActiveWindow();
#endif
return (output);
wx-users Mailing List On This Topic
Newsgroups: comp.soft-sys.wxwindows
From: cso...@advancedconcepts.ch (''Stefan Csomor'')
Date: Fri, 21 May 2004 18:34:46 +0000 (UTC)
Local: Fri, May 21 2004 1:34 pm
Subject: RE: Getting the frontmost window?
Hi Ryan
Either use FrontWindow() which is really the foremost window, ore use
ActiveNonFloatingWindow() which is the foremost non-floater
HTH
Stefan
> ----Original Message----
> From: Ryan Wilcox [mailto:ryanwil...@mac.com]
> Sent: Freitag, 21. Mai 2004 17:00
> To: wx-us...@lists.wxwidgets.org
> Subject: Getting the frontmost window?
> Hi folks,
> How would I go about getting the active (read: frontmost) window on
> 2.5.1(ish)[1] wxMac? I see ::wxGetActiveWindow(), but that's only for
> MS Windows.
> Thanks for the help,
```

# Table 4-20 wxBitmapButton Styles

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Another style is:

wxBORDER_NONE	No border for button. WARNING: On Mac OS X, this means your bitmap can only be
	of a standard size or it won't show (128x128, 48x48, 32x32, 16x16, 0x0).

# ${\bf Table~4\text{--}22~wxComboBox~Styles}$

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Adding one more style, we have:

wxTE_PROCESS_ENTER	See wxTextCtrl documentation on pages 107–111, and notes on the next page of
	this document.

#### Table 4-23 wxComboBox Events

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Notes on wxComboBox events:

EVT_COMBOBOX(id, func)	Does NOT process the wxEVT_COMMAND_COMBOBOX_SELECTED
	command if a user types in a value instead of selecting one that is already in
	the list.
EVT_TEXT_ENTER(id, func)	Chooses an item from the menu generated when the ENTER key is pressed
	in the combo box (Applicable when using a generic combo box (one made up
	of a text control and a popup, instead of a unified control provided by the OS);
	this event is sent by the wxTextCtrl and is often useful in processing combo box
	selection).

#### wxComboBox Member Functions

Notes on wxComboBox member functions:

GetSelection()	Returns wxNOT_FOUND if the string entered is not equal to an item in the popup.
GetStringSelection()	Returns wxEmptyString if the string is not equal to item in the popup.
SetStringSelection()	Returns false if the value is not found in the list.
GetValue()	Used to get the value of the combo box if you don't care whether the user selected a value
	from the list or typed in a value.

#### **End Of Sample**

Like the idea? This is only a the first quarter of the book! Please buy the rest of this book at  $\frac{\text{http:}}{\text{www.wilcoxd.com/booklets/wxwidgets.html}}$ .