Subject: Creating sub menus without callback functions Posted by prog13 on Mon, 23 Oct 2006 22:38:44 GMT

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Hi, I've stumbled across U++ some days ago while searching for an alternative GUI framework because of some issues I have with wxWidgets - and all in all I really liked what I saw. Now after beginning to port an application that reads in it's user interface layout from a text file I've got stuck on menu creation. The layout parser of that application needs to create the menu structure in standard depth-first-order or else some kind of overly complicated menu structure buffer would need to be implemented.

So what I'd need is instead of adding a sub menu with "bar.Add(caption, callback);" something like "bar.Add(caption, submenu);". But this doesn't seem to work with 'submenu' beeing of type MenuBar.

So is something like that possible? Or any method not using (seemlingly asynchronous) callback functions?

Subject: Re: Creating sub menus without callback functions Posted by mirek on Tue, 24 Oct 2006 00:32:42 GMT

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No, current menu is designed to use callback.

BUT callbacks are quite versatile. This problem can be easily solved by passing additional parameter in the callback.

E.g. like this: (very barebone skeleton, just to get the idea):

```
struct MyApp {
  typedef MyApp CLASSNAME;

  Vector<String> top;
  Vector< Vector<String> > submenu;

  void Action(int top, int i) { /* some action */ }

  void SubMenu(Bar& bar, int top) {
    const Vector<String>& sm = submenu[top];
    for(int i = 0; i < sm.GetCount(); i++)
        bar.Add(sm[i], THISBACK2(Action, top, i));
  }

  void MainMenu(Bar& bar) {
    for(int i = 0; i < top.GetCount(); i++)
        bar.Add(top[i], THISBACK1(SubMenu, i));
  }</pre>
```

};

Subject: Re: Creating sub menus without callback functions Posted by prog13 on Tue, 24 Oct 2006 11:09:46 GMT

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Ok thanks for the reply, I'm now saving the whole menu structure in a tree container and then using callbacks on that. It works now, although I had to work around THISBACK2(...)/callback2(...) using a helper struct. THISBACK2 doesn't seem to work (v610) - at least in this context. To verify this I modified the menu reference example:

```
void SubMenu(Bar& bar, int a, int b)
{
  for(int i = 0; i < 10; i++)
    bar.Add(AsString(i), THISBACK1(ShowNumber, i));
}

void Menu(Bar& bar)
{
  bar.Add("Enable numbers", THISBACK(EnableNumbers))
    .Check(numbers_enabled);
  bar.Add(numbers_enabled, "Numbers", THISBACK2(SubMenu,1,2));
  bar.Add("Exit", THISBACK(Exit))
    .Key(K_CTRL_E);
}</pre>
```

This gives the following compiler errors:

MSVC8:

)(A,B)' from 'void (__thiscall App::*)(Bar &,int,int)' C:\upp\uppsrc\Core/Callback.h(175) : see declaration of 'callback2'

GCC(MinGW):

C:\upp\reference\Menu\menu.cpp: In member function `void App::Menu(Bar&)':

C:\upp\reference\Menu\menu.cpp:33: error: no matching function for call to `callback2(App

* const, void (App::*)(Bar&, int, int), int, int)'

Despite this working for me now and most smaller applications wouldn't read their interfaces from a file at runtime anyways, I think it might be worth it to allow for a more "procedural" approach of menu creation for such situations - I haven't investigated the needed changes, so it could be too much work for the benifit.

Subject: Re: Creating sub menus without callback functions Posted by mirek on Tue, 24 Oct 2006 14:45:31 GMT

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Quote:

THISBACK2 doesn't seem to work (v610) - at least in this context.

Sorry about that, that variant really is not part of U++ (yet?)

Quote:

Despite this working for me now and most smaller applications wouldn't read their interfaces from a file at runtime anyways, I think it might be worth it to allow for a more "procedural" approach of menu creation for such situations - I haven't investigated the needed changes, so it could be too much work for the benifit.

Well, the needed changes are exactly what you have done now. I think that callback based menu should be primary, because it is more generic - you can quite easily implement non-callback menu using callback variant, but opposite is not true.

Mirek

Subject: Re: Creating sub menus without callback functions Posted by slashupp on Sun, 29 Nov 2015 05:07:50 GMT View Forum Message <> Reply to Message

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... AND.. about nine years later...

bar.Add("Dummy Item", Callback(nullptr));

.. will do the trick;)