
Subject: How to use TabBar CancelClose/WhenClose?
Posted by [cbpporter](#) on Tue, 17 May 2016 08:46:22 GMT
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I have a TabBar and when you close a tab it unceremoniously closes the tab. I would like to prompt the user to save if needed with a Yes/No/Cancel dialog like in the rest of the application and then handle the saving and cleanup.

Looking over the source code I think that I need to handle the prompt and the actual saving in CancelClose and the cleanup in WhenClose? How do you CancelClose? I have never used a gate before. I can't even get it to compile with callbacks.

And what is up with CancelCloseSome/WhenCloseSome? What is the difference between the Some variants and the normal ones and which one should I handle?

Thank you!

Subject: Re: How to use TabBar CancelClose/WhenClose?
Posted by [Lance](#) on Tue, 17 May 2016 15:21:48 GMT
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I manage to extract this minimal example to get my idea across.

You will need to rewrite many parts to suit your needs.

HTH,

Lance

[edit] removed incorrect/misleading info

Subject: Re: How to use TabBar CancelClose/WhenClose?
Posted by [Lance](#) on Tue, 17 May 2016 15:24:39 GMT
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Sorry, forgot to attach the test package.

If you are still using non-C++11 compiler, add a

#define nullptr NULL

somewhere. Hopefully there is no other non-compliance.

File Attachments

1) [MultiTab.zip](#), downloaded 245 times

Subject: Re: How to use TabBar CancelClose/WhenClose?

Posted by [cbpporter](#) on Wed, 18 May 2016 08:29:35 GMT

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Hi Lance,

Thank you for the help. Unfortunately, I can't get your sample to link.

But it did help me to find out why my gates wouldn't compile: I had it take a const Value& parameter instead of a Value.

So now it works.

But I found a bug on TabBar. The closing mechanism is based on the current highlighted tab under mouse. Which is fine, until you Prompt in CancelClose, like I do:

```
bool EditorManager::OnCancelClose(Value val) {
    int i = tabFiles.GetCursor();
    if (i == -1)
        return true;

    if (IsChanged(i)) {
        BeepQuestion();
        String fn = DeQtF(tabFiles[i].key.ToString());
        DUMP(tabFiles.GetHighlight());
        int save = PromptSaveDontSaveCancel("[ph The following file was changed since last save:&-[*
" + fn + "]"&Would you like to save it?]);
        DUMP(tabFiles.GetHighlight());
        if (save == 1)
            Save(i);
        else if (save == -1)
            return true;
    }

    return false;
}
```

Between the two DUMPs, the highlight changes to -1. I tried this simple fix in TabBar.cpp:

```
void TabBar::MiddleDown(Point p, dword keyflags)
{
```

```
if (highlight >= 0)
{
    Value v = tabs[highlight].key;
    ValueArray vv;
    vv.Add(v);
    int highlightBack = highlight;
    if (!CancelClose(v) && ! CancelCloseSome(vv)) {
        Value v = tabs[highlightBack].key;
        // 2014/03/06 - FIRST the callbacks, THEN remove the tab
        // otherwise keys in WhenCloseSome() are invalid
        WhenClose(v);
        WhenCloseSome(vv);
        TabClosed(v);
        Close(highlightBack);
    }
}
```

Subject: Re: How to use TabBar CancelClose/WhenClose?

Posted by [Lance](#) on Wed, 18 May 2016 12:25:28 GMT

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Glad you fixed it.

Why did you use get GetHighlight() instead of GetCurrentCtrl()? I didn't use GetHighlight() so I don't really know its intention. Could it be the opening of your prompt dialog shift the highlight such that no tab is thought as highlighted (hence change to -1), ie., it's intended behaviour instead of a bug? Just my thought.

It's a pity you cannot link my package, btw, what's the failure message?

Subject: Re: How to use TabBar CancelClose/WhenClose?

Posted by [cbpporter](#) on Wed, 18 May 2016 13:15:11 GMT

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It is not me using the highlight. TabBar is the one using it, when it handles the middle mouse click for tab closing. Which reminded me about the close box, so I tested using the box and it did not work for me because I had an index based API and TabBar is key based. I fixed it now...

Your method with GetCurrentCtrl, pointers and memory management is a bit not U++ enough for me.

Which reminds me, I need to replace the box icon with a close icon that has an "x" inside. Closing a tab with a box is not intuitive. I learned from you how you can easily change the boxes. Thank

you!

I solved the linking errors. Your package does not use the TabBar package. You need to add it and it works!

Thanks!

Subject: Re: How to use TabBar CancelClose/WhenClose?

Posted by [Lance](#) on Wed, 18 May 2016 13:51:01 GMT

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You method with GetCurrentCtrl, pointers and memory management is a bit not U++ enough for me.

:(

A few years ago, I proposed to add a bit in Ctrl to allow a child Ctrl to be owned, which was rejected by Mirek. Then I found he used PtrBit or something like that (pointer as int, add 1 to signal an owned ctrl) in his ArrayCtrl to allow a child to be owned. If a Ctrl can be owned, we can rely on TabCtrl to delete it when needed, which will save some code and some 'ugly' delete. Otherwise it's an inevitable choice, unless you want to put up with the extra cost of an redundant Array just to hold the new'd Ctrls.

Anyway, it's a matter of taste/faith. Good thing is you make things work as you wish and the way you wish.

Subject: Re: How to use TabBar CancelClose/WhenClose?

Posted by [cbpporter](#) on Thu, 11 Aug 2016 13:38:52 GMT

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BUMP BUMP!

The bug I spoke about is actually a bug and not yet fixed in the latest version.

I was just about to report not a new bug, but a proposed functionality improvement for TabBar and I remembered to check the status of this one.

Should I start using Redmine?

Subject: Re: How to use TabBar CancelClose/WhenClose?

Posted by [cbpporter](#) on Fri, 06 Jan 2017 11:59:25 GMT

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Redmine issue for the BUG: <http://ultimatepp.org/redmine/issues/1598>
