Subject: TabBar Major Revision
Posted by mrjt on Thu, 04 Jun 2009 11:28:26 GMT
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I've just completed a revision of the TabBar package to both incorporate new features and improve the implementation of old ones. The changes are numerous, but the main ones:

- Upp style key/value support
- FileTabs class added to TabBar package. This is a TabBar derived class specialised for file-control (like TheIde tabs). Almost all uses of the TabBar are probably going to want something close to this.
- FileTabsExample added to Bazaar
- Tabs can now have icons attached, reducing the need for custom paint routines
- Sorting by group added
- Visual group separators added
- Scrolling behaviour fixed
- No cursor support added
- Gate callbacks added to allow owning application to cancel tab closing operations
- Tab stacking improved:
  Custom stacking criteria can be specified by overloading GetStackId
  Custom sorting inside stacks can be specified by overloading GetStackSortOrder
  Tabs can now be iterated over as normal, but are sorted into their stacks (so don't depend on the tab order staying constant)
  A stacked tab can be selected directly with the mouse
  Display stacked tabs by icon or a much-simplified custom paint routine

Revision 1271.

There are probably still a few bugs and a couple of minor things to do but the major work is completed and the interface is final.

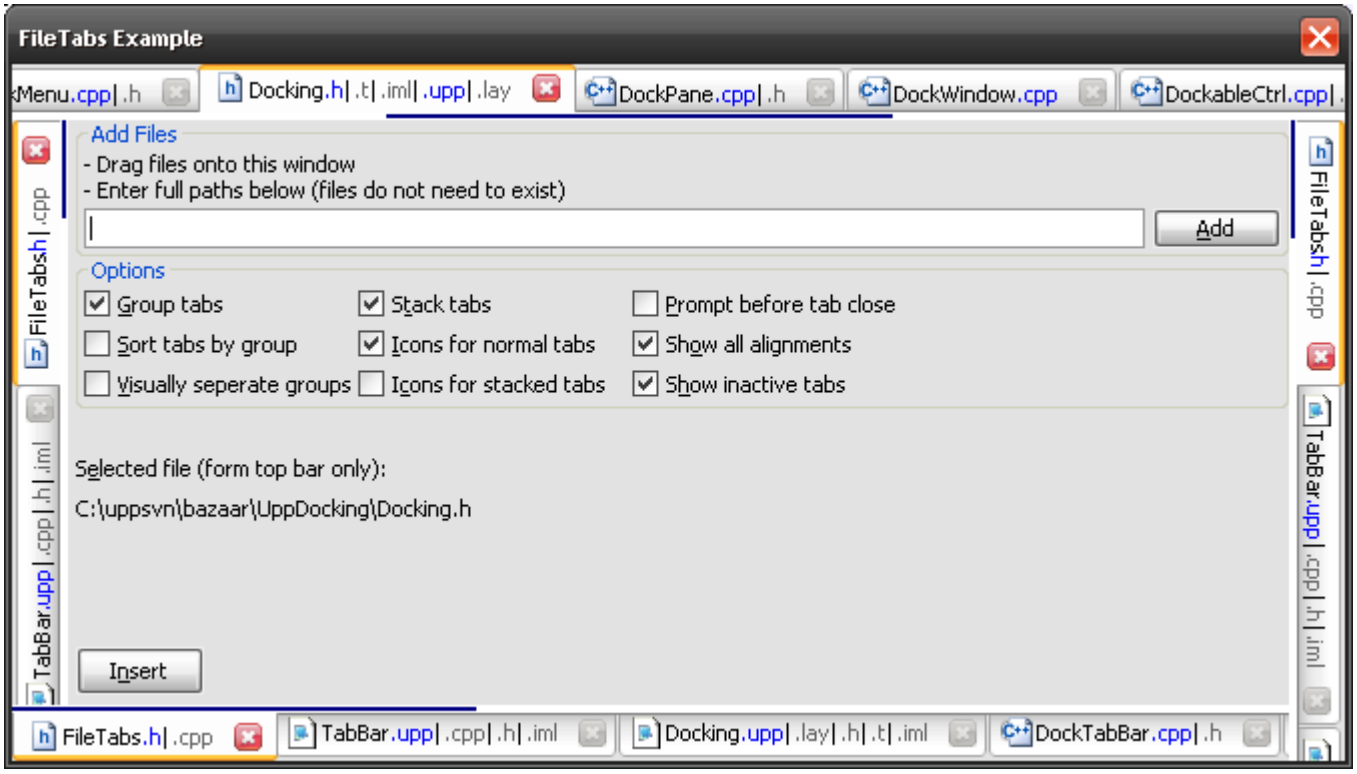
The Docking package is dependent on this and has not bee updated yet.

Documentation pending

Screenshot of the FileTabsExample package:
(Docking.upp is being highlighted by the mouse pointer)

File Attachments

1) FileTabsExample.png, downloaded 1862 times



Subject: Re: TabBar Major Revision
Posted by koldo on Thu, 04 Jun 2009 13:47:20 GMT
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Thank you!

Subject: Re: TabBar Major Revision
Posted by mrjt on Thu, 04 Jun 2009 15:15:20 GMT
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I've just committed a version with 2 changes:
WhenClose and CancelClose callbacks weren't being called on MiddleDown
Separators now drawn using Image

Subject: Re: TabBar Major Revision
Posted by Mindtraveller on Thu, 04 Jun 2009 15:24:21 GMT
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Is there a chance to include these stacking file tabs into next SVN version of TheIDE?

Subject: Re: TabBar Major Revision
Posted by unodgs on Thu, 04 Jun 2009 19:16:26 GMT
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Mindtraveller wrote on Thu, 04 June 2009 11:24Is there a chance to include these stacking file tabs into next SVN version of TheIDE?
They will be there for sure

Subject: Re: TabBar Major Revision
Posted by koldo on Thu, 04 Jun 2009 21:26:55 GMT
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Hello mrjt

I have seen that in TabBar.upp are included references to files FileTabs.cpp and FileTabs.h., but they are not in TabBar folder.

Also in TabBar.h there is a #include "FileTabs.h"

Other thing to update or delete is TabBarTest, as function .Add() seems to be changed.

Best regards
Koldo

Subject: Re: TabBar Major Revision
Posted by mrjt on Fri, 05 Jun 2009 09:11:37 GMT
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koldo wrote on Thu, 04 June 2009 22:26Hello mrjt

I have seen that in TabBar.upp are included references to files FileTabs.cpp and FileTabs.h., but they are not in TabBar folder.

Also in TabBar.h there is a #include "FileTabs.h"

Other thing to update or delete is TabBarTest, as function .Add() seems to be changed.

Best regards
Koldo
Sorry about that. Bit of a cock-up, I forgot to add the files.

This is fixed in revision 1280.

Subject: Re: TabBar Major Revision

Posted by mrjt on Fri, 05 Jun 2009 09:19:32 GMT
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MindtravellerIs there a chance to include these stacking file tabs into next SVN version of TheIDE?
If you want to try it out now, I've just added a QuickTabs wrapper package to the bazaar. It's very easy to add:

1- Get latest SVN (1280+ is needed)
2- Replace uppsrc/ide/QuickTabs with bazaar/QuickTabs (copying over it is ok)
3- Before compiling TheIde add the bazaar assembly to the uppsrc assembly (right click uppsrc->Edit assembly, add path to bazaar in top edit box)
4- Compile TheIde

There is an addition Settings menu added to the QuickTabs context menu for changing a few things.

It would be helpful to try it, the more it's tested the sooner it can go into the default version.

Plus I really like it, I've switched to using it myself now

Subject: Re: TabBar Major Revision
Posted by Mindtraveller on Fri, 05 Jun 2009 20:08:29 GMT
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mrjt wrote on Fri, 05 June 2009 13:19If you want to try it out now, I've just added a QuickTabs wrapper package to the bazaar. Thank you very much, I`ll try and test it.

Subject: Re: TabBar Major Revision
Posted by koldo on Fri, 05 Jun 2009 20:34:56 GMT
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Hello mrjt

I have adapted my tabs application to the new version. It has been easy.

As I open files I have used new FileTabs class. Method GetKey(i) returns the file name with full path, but GetValue(i) returns just the file name.

Instead of Add() now it is used AddFile(file, make_active) where file is the full path. Only the file name is seen in the tab.

Just what I wanted. Thank you very much. I have seen Monaco F1 inspired you

Best regards
Koldo

Subject: Re: TabBar Major Revision
Posted by Mindtraveller on Fri, 05 Jun 2009 22:19:46 GMT
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mrjt wrote on Fri, 05 June 2009 13:19
2- Replace uppsrc/ide/QuickTabs with bazaar/QuickTabs (copying over it is ok)
3- Before compiling TheIde add the bazaar assembly to the uppsrc assembly (right click uppsrc->Edit assembly, add path to bazaar in top edit box)
4- Compile TheIde gives me errors:
----- ide\QuickTabs (GUI MT MSC9 WIN32 MSC) (8 / 36)
QuickTabs.cpp
C:\upp\uppsrc\ide\QuickTabs\QuickTabs.cpp(10) : error C3767: '<<=': candidate function(s) not accessible
C:\upp\uppsrc\ide\QuickTabs\QuickTabs.cpp(10) : error C2676: binary '<<=' : 'Upp::Callback' does not define this operator or a conversion to a type accept
 able to the predefined operator
C:\upp\uppsrc\ide\QuickTabs\QuickTabs.cpp(15) : error C2039: 'OnSettingsMenu' : is not a member of 'QuickTabs'
	c:\upp\uppsrc\ide\quicktabs\QuickTabs.h(7) : see declaration of 'QuickTabs'
C:\upp\uppsrc\ide\QuickTabs\QuickTabs.cpp(15) : error C2065: 'OnSettingsMenu' : undeclared identifier
C:\upp\uppsrc\ide\QuickTabs\QuickTabs.cpp(21) : warning C4003: not enough actual parameters for macro 'THISBACK1'
C:\upp\uppsrc\ide\QuickTabs\QuickTabs.cpp(21) : error C2059: syntax error : ')'
C:\upp\uppsrc\ide\QuickTabs\QuickTabs.cpp(22) : warning C4003: not enough actual parameters for macro 'THISBACK1'
C:\upp\uppsrc\ide\QuickTabs\QuickTabs.cpp(22) : error C2059: syntax error : ')'
C:\upp\uppsrc\ide\QuickTabs\QuickTabs.cpp(23) : warning C4003: not enough actual parameters for macro 'THISBACK1'
C:\upp\uppsrc\ide\QuickTabs\QuickTabs.cpp(23) : error C2059: syntax error : ')'
C:\upp\uppsrc\ide\QuickTabs\QuickTabs.cpp(24) : error C3867: 'TabBar::IsShowInactive': function call missing argument list; use '&TabBar::IsShowInactive'
 to create a pointer to member
C:\upp\uppsrc\ide\QuickTabs\QuickTabs.cpp(24) : warning C4003: not enough actual parameters for macro 'THISBACK1'
C:\upp\uppsrc\ide\QuickTabs\QuickTabs.cpp(24) : error C2059: syntax error : ')'
C:\upp\uppsrc\ide\QuickTabs\QuickTabs.cpp(35) : error C2143: syntax error : missing ';' before 'if'
C:\upp\uppsrc\ide\QuickTabs\QuickTabs.cpp(43) : error C2065: 'tn' : undeclared identifier
C:\upp\uppsrc\ide\QuickTabs\QuickTabs.cpp(43) : error C2228: left of '.ToWString' must have class/struct/union
	type is ''unknown-type''

Subject: Re: TabBar Major Revision
Posted by Mindtraveller on Mon, 08 Jun 2009 09:03:59 GMT
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Update: the same error with latest release 1289.
Am I doing something wrong?

Subject: Re: TabBar Major Revision
Posted by piotr5 on Sun, 14 Jun 2009 18:15:26 GMT
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mrjt wrote on Fri, 05 June 2009 11:19MindtravellerIs there a chance to include these stacking file tabs into next SVN version of TheIDE?
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I tried it now, and after some fiddling it compiled. the major difficulty was to realize that I need to change in ide.h the include-statement for QuickTabs: instead of ide/QuickTabs/QuickTabs.h, it should be without the ide/ -- QuickTabs/QuickTabs.h alone.

for completeness: the error with missing "<<=" I fixed by removing the "=", i.e. I used the "<<" operator. "OnSettingsMenu" I replaced with "SettingsMenu" and "THISBACK1" in the error-yielding lines I replaced with "THISBACK" and the erronous "tn" I changed to "fn". I also remember that I had to remove some "&" from the parameters of a function-declaration taking wstrings as argument because wstring is pickable and somewhere the function was fed with temporatry wstrings (but I suspect that a constant wstring& would have solved the problem too). ".ToWString" I have not seen among the errors. my google-svn version is 1303. there's also an error in the ide itself: SerializeTabs is undefined. I'm not sure what to do with it. for now I commented out these commands and reduced the serialization-version to 8. I hope someone will port the Tab-Serialization to TabBars (as opposed to FileTabs or QuickTabs)...

Subject: Re: TabBar Major Revision
Posted by mrjt on Tue, 16 Jun 2009 08:57:00 GMT
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piotr5 wrote on Sun, 14 June 2009 19:15mrjt wrote on Fri, 05 June 2009 11:19MindtravellerIs there a chance to include these stacking file tabs into next SVN version of TheIDE?
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Oops, I forgot to mention changing the package path. Sorry.

The errors were because I was of course testing the version in the ide directory and forgot to copy the changes back before committing. I've now rectified this.

Still, glad you got it working.

The problem with TabBar serialization is that now Tabs have a separate Image/icon property and there is now way to recreate this with generic serialization alone. It's not difficult to add serialization that ignores this property, but I wanted to the think about it first so I didn't include it with this release.

Subject: Re: TabBar Major Revision
Posted by piotr5 on Wed, 17 Jun 2009 14:33:40 GMT
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mrjt wrote on Tue, 16 June 2009 10:57
The problem with TabBar serialization is that now Tabs have a separate Image/icon property and there is now way to recreate this with generic serialization alone. It's not difficult to add serialization that ignores this property, but I wanted to the think about it first so I didn't include it with this release.

one little suggestion: a TabBar doesn't really need an icon-serialization in the strict sense. I think instead we need a special icon-serialization and therefore a special icon-class. as far as I understood TabBar::Tab::img is the member storing the icon. it's of type Image. what I am thinking of is to use a class specialized on icons only. this class needs only one member in addition to the actual image: "icontag". the type of this member can be filename or a special value from an enum-list of icons. and this value then needs to be stored during serialization of the icon (and thereby during serialization of TabBar and derivatives). or better yet, don't put the actual image into the icon-class, and provide a method for translating the icontag to the image-data sored elsewhere (for example with a static look-up table containing all internal icons and already loaded files). and maybe it should be 2 icon-classes (one for enum-ed icontags and one for filenames) plus another one serving as an interface to both. on windows this file-name-icon class can be extended with exact location-infor for each icon (in windows there can be multiple icons per file, even different icon-sizes). is that what you did think of? I have not enough knowledge of upp, but I guess there is a lot of code-reuse in that idea...

Subject: Re: TabBar Major Revision
Posted by mrjt on Wed, 17 Jun 2009 15:02:03 GMT
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To be honest I was just going to write a table of Images into the serialization in .iml format, maybe with a compile option to disable it and an overloadable SerializeIcon method. Each image would only be written once and they are small so this should be okay.

Subject: Re: TabBar Major Revision
Posted by piotr5 on Wed, 17 Jun 2009 16:31:19 GMT
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yes, at first I did think of that too. but it's only fitting for image-serialization, but usually users are not expected to draw any lines and dots right into an image located at a file-tab or something. the images must originate from somewhere: either hard-coded or dynamically loaded. I think I remember windows has serialied its icons at shut-down. the funny thing is that a long time after erasing the icons from the file-system, they still did decorate the desk-top. sounds more like data-junk than real serialization. for example if you decorate the tabs with a symbol for the file-type in theide, and then some new graphics-designer would contribute great icons for upp's file-types, then all users would need to close all tabs and re-open them in order to enjoy the new design...

well, that was my traits of thought. judging by your usual enthusiasm to implement something new, I would guess your hesitation in this case is a result of having similar thoughts. even the self-justification "they are small" does sound as if such a solution wouldn't be what you want. maybe you did "forget" thinking of animated gifs when writing that?

Subject: Re: TabBar Major Revision
Posted by Mindtraveller on Wed, 17 Jun 2009 17:58:58 GMT
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Excuse for possibly bad thought, but why don`t you use file extension instead of tab icon? I.e. you may write it inside rounded rectangle with remarkable color, then goes filename w/o extension. And that`s all. No possible extensions after filename. Possible extensions could be shown with tooltip of tab caption.

Subject: Re: TabBar Major Revision
Posted by mrjt on Thu, 18 Jun 2009 08:57:23 GMT
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piotr5 wrote on Wed, 17 June 2009 17:31well, that was my traits of thought. judging by your usual enthusiasm to implement something new, I would guess your hesitation in this case is a result of having similar thoughts.
even the self-justification "they are small" does sound as if such a solution wouldn't be what you want. maybe you did "forget" thinking of animated gifs when writing that?
You summed up my thoughts very well Basically I'm just not sure there is a 'best' solution for this. The method I outline above is the most general one I can think of, but as you point out it has potential problems.

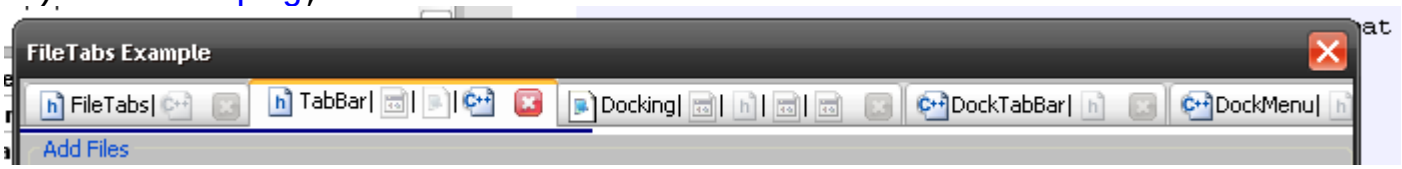
In the case of TheIde tabs (and possibly FileTabs if I removed the custom icon ability) I would not save the Images but just get them from the filesystem at load time.

Excuse for possibly bad thought, but why don`t you use file extension instead of tab icon?
I.e. you may write it inside rounded rectangle with remarkable color, then goes filename w/o extension.
And that`s all. No possible extensions after filename. Possible extensions could be shown with tooltip of tab caption.
I don't like the idea of hiding the stacked tab information behind a tooltip, it would just make it hard to use IMO. Making something like this is easy though (simply overloading 2 functions does it):

But I don't like it very much. I think icons are more difficult to read, even if not disabled/greyed out as in this shot.

File Attachments

1) TabBar.png, downloaded 1492 times



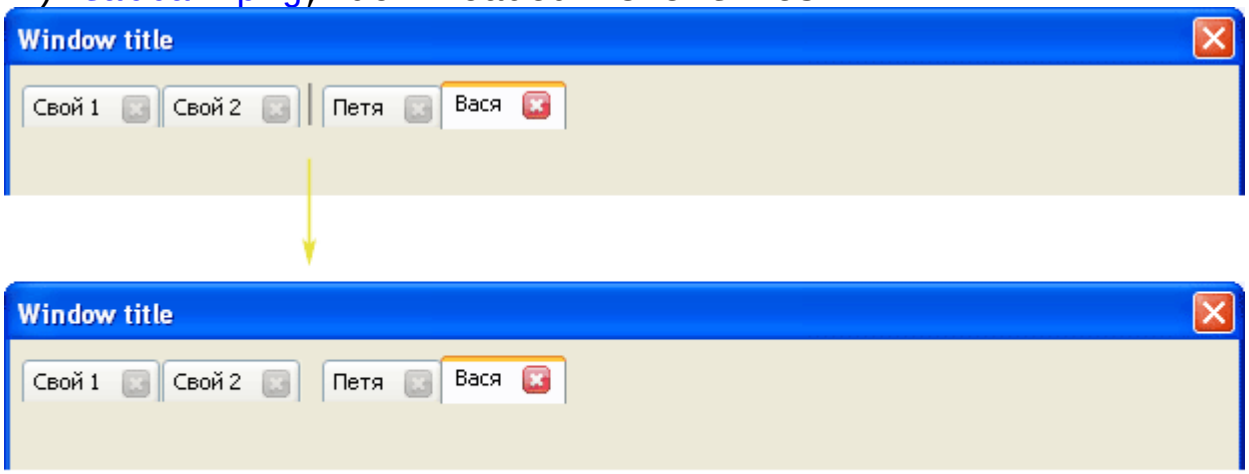
Subject: Re: TabBar Major Revision

Posted by Mindtraveller on Sat, 26 Dec 2009 09:11:24 GMT
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I propose making group divider a simple space instead of divider. IMO it looks much better:

File Attachments

1) tabbar.png, downloaded 1815 times



Subject: Re: TabBar Major Revision
Posted by unodgs on Sat, 26 Dec 2009 09:29:17 GMT
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I was also experimenting with different dividers and came to the same conclusion space is the best (it doesn't generate the noise)