Subject: IME improved support
Posted by mirek on Sat, 26 Feb 2022 17:41:16 GMT

U++ now supports IME (text input for 'complicated' langauges like chinese) more correcly, on all 3 platforms:

For the support, there are some new methods in Ctrl interface:

 virtual Point GetPreedit();

Should return the position of top left point of insertion point (or Null if widget does not need IME).

 virtual Font   GetPreeditFont();

Should return the font to be used for displaying partial input (it looks good if it matches the current font of text).

 static void CancelPreedit();

Client code can call to "abort" the input - e.g. when user moves the cursor by the mouse click.

 void   CancelMyPreedit()   { if(HasFocus()) CancelPreedit(); }

Similar, with focus test...

```
File Attachments
1) ime_mac.jpg, downloaded 331 times
```

Subject: Re: IME improved support
Posted by Oblivion on Sun, 27 Feb 2022 08:39:37 GMT

Hello Mirek,

Thank you very much for this improvement.
My question is: how are we going to activate or use the preedit in our apps or widgets? (I'd like to test it)

Best regards,
Oblivion

Subject: Re: IME improved support
Posted by mirek on Sun, 27 Feb 2022 08:52:12 GMT

Oblivion wrote on Sun, 27 February 2022 09:39Hello Mirek,

Thank you very much for this improvement.
My question is: how are we going to activate or use the preedit in our apps or widgets? (I'd like to test it)

Best regards,
Oblivion

Well, reastically, there are just 4 widgets with text input right now - EditField, LineEdit, DocEdit and RichText. All of them have what counts as "full support" and it works out of box.

If you want to develop your own widget with IME support, well, if it shows Caret, you will have IME (because default implementation of GetPreedit returns caret position). The only thing you eventually need to add is CancelMyPreedit here and there to cancel composition on some actions (e.g. cursor moved).

Subject: Re: IME improved support
Posted by Tom1 on Tue, 01 Mar 2022 06:45:24 GMT

Hi Mirek,

Looks very elegant!

However, please fix the following on Linux:

/home/tom/upp.src/uppsrc/CtrlCore/GtkEvent.cpp:659:4: error: expected expression
            DLOG(GetKeyDesc(kv) << ", pressed: " << pressed << ", count: " <<
CurrentEvent.count);
            ^
/home/tom/upp.src/uppsrc/Core/Diag.h:158:26: note: expanded from macro 'DLOG'
#define DLOG(x)   @ // To clean logs after debugging, this produces error in release mode
              ^
/home/tom/upp.src/uppsrc/CtrlCore/GtkEvent.cpp:669:4: error: expected expression
            DDUMPHEX(kv);
            ^
/home/tom/upp.src/uppsrc/Core/Diag.h:164:26: note: expanded from macro 'DDUMPHEX'
#define DDUMPHEX(nx)   @ // To clean logs after debugging, this produces error in release mode
              ^
2 errors generated.

Best regards,

Tom

EDIT: Sorry this newbie question here... How do I test the IME support? I just wish to know how it works.

Subject: Re: IME improved support
Posted by Novo on Thu, 03 Mar 2022 04:17:44 GMT
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CLANG-mingw, cross-compilation of Linux.
umk uppsrc ide CLANG -bu
Linking...
lld: error: unable to find library -lImm32

It should be imm32, not Imm32. Linux is case-sensitive ...

Subject: Re: IME improved support
Posted by mirek on Thu, 03 Mar 2022 08:20:52 GMT
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Tom1 wrote on Tue, 01 March 2022 07:45Hi Mirek,

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mode
            ^
2 errors generated.

Best regards,

Tom

EDIT: Sorry this newbie question here... How do I test the IME support? I just wish to know how it works.

In windows, you have to add chinese language in settings.

Subject: Re: IME improved support
Posted by mirek on Thu, 03 Mar 2022 08:46:10 GMT
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Novo wrote on Thu, 03 March 2022 05:17CLANG-mingw, cross-compilation of Linux.
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It should imm32, not Imm32. Linux is case-sensitive ...

Well, it is listed initcaps in reference documentation:

 https://docs.microsoft.com/en-us/windows/win32/api/imm/nf-im m-immgetcontext

however, I think it will not hurt to lower the case...

Mirek

Subject: Re: IME improved support
Posted by Novo on Fri, 04 Mar 2022 00:08:56 GMT
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mirek wrote on Thu, 03 March 2022 03:46Novo wrote on Thu, 03 March 2022
05:17CLANG-mingw, cross-compilation of Linux.
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Well, it is listed initcaps in reference documentation:

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however, I think it will not hurt to lower the case...

Mirek
Thanks! That fixed the problem.