Subject: How to Print a file inside LineEdit
Posted by forlano on Sun, 14 May 2006 17:34:08 GMT

Hello,

I've a file in a LineEdit widget and I desire to send it to the Printer. I've found with Assist the Print() function but it seems to work with RichText while I've a simple text file. So I wonder if it works or there is a U++ Print method that can do the job. (At the moment I've not a printer so I cannot test if the Print() method RichTest based works in my case).

BTW, this question is more general because in principle I could want to print a text file bypassing any widget and sending it directly to the printer.

Thank you,

Luigi

PS: The class RichEdit has the Print() method, why LineEdit has not the same?

Subject: Re: How to Print a file inside LineEdit
Posted by mirek on Sun, 14 May 2006 19:44:55 GMT

forlano wrote on Sun, 14 May 2006 13:34Hello,

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BTW, this question is more general because in principle I could want to print a text file bypassing any widget and sending it directly to the printer.

Thank you,

Luigi

PS: The class RichEdit has the Print() method, why LineEdit has not the same?

There is no direct support for printing of LineEdit.

The simplest way to print is to use Report. Simply, instead to sending your stuff to "Draw", you use Report (which implements Draw interface), just add some calls to perform pagination. Alternatively, use Qtf, which you can send to Report as well.

Mirek

Subject: Re: How to Print a file inside LineEdit
Posted by forlano on Mon, 15 May 2006 19:09:08 GMT

luzr wrote on Sun, 14 May 2006 21:44The simplest way to print is to use Report. Simply, instead to sending your stuff to "Draw", you use Report (which implements Draw interface), just add some calls to perform pagination. Alternatively, use Qtf, which you can send to Report as well.

Mirek

I tried Report. Perhaps I do some mistake but doesn't seems so immediate. Let's neglect for the moment the pagination and let assume I've only one page to print. I tried the following code:

```
void  VegaTab4::PrintCB()
{  Report r;
// r.Header("[A2> Page $$P");
 r << "Round 1";
    r << "======================================================================";
    r << "  1 =   4 Karpov, Igor        -  2 Karpov, Vadim        = 1 - 0";
    r << "--------------------------------------------------------------";
    Print( r, 1, "Preview");
// Perform(r); //same format error
}
```

When I run it appear the print panel. Then I click print and I observe the result attached below (I've printed with a pdf driver and then get a screenshot).
So it seems Report try to interpret the strings in qtf terms. This means that my text file is processed as a qtf file while it has no format command and I want to send to the printer each character the file contains.
Before to obtain this error I believed I could get the entire text file and pass via << to r and then print it. But now seems I cannot avoid to save the file in qtf format. Am I right?

Anyway I think could be very useful to have a very direct way to communicate with a printer without any inteference and control about font etc. With linux I could use a calling to system and print via 'lp', but with windows I would like to have the possibility to choose at least the printer.

Luigi

File Attachments
1) swiss5.jpg, downloaded 2168 times

Subject: Re: How to Print a file inside LineEdit

Posted by mirek on Mon, 15 May 2006 20:00:21 GMT

forlano wrote on Mon, 15 May 2006 15:09luzr wrote on Sun, 14 May 2006 21:44The simplest way to print is to use Report. Simply, instead to sending your stuff to "Draw", you use Report (which implements Draw interface), just add some calls to perform pagination. Alternatively, use Qtf, which you can send to Report as well.

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 r << "Round 1";
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Luigi

You can "avoid" qtf by calling DeQtf for texts you pass... That will add escape characters that will "quote" original text in Qtf.

```
void  VegaTab4::PrintCB()
{ Report r;
// r.Header("[A2> Page $$P");
 r << "Round 1";
   r <<
DeQtf("===================================================================");
   r << DeQtf("  1 =   4 Karpov, Igor        -  2 Karpov, Vadim       = 1 - 0");
```

```
   r << DeQtf("----------------------------------------------------------------");
   Print( r, 1, "Preview");
// Perform(r); //same format error
}
```

Mirek

Subject: Re: How to Print a file inside LineEdit
Posted by forlano on Mon, 15 May 2006 21:13:15 GMT
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luzr wrote on Mon, 15 May 2006 22:00
You can "avoid" qtf by calling DeQtf for texts you pass... That will add escape characters that will
"quote" original text in Qtf.

```
void  VegaTab4::PrintCB()
{  Report r;
// r.Header("[A2> Page $$P");
 r << "Round 1";
   r <<
DeQtf("=======================================================================");
   r << DeQtf("  1 =   4 Karpov, Igor        -  2 Karpov, Vadim       = 1 - 0");
   r << DeQtf("----------------------------------------------------------------");
   Print( r, 1, "Preview");
// Perform(r); //same format error
}
```

Mirek
I tried and it works. Unfortunatly there is again one more problem   : by default it is set the
proportional font. Instead i would like to print with courier font to preserve the vertical alignment
present in the file. Using UWord I got the format command to print with courier, say 11. So I've
tried to embed one text line in a formatted command line with courier font like this:

```
void  VegaTab4::PrintCB()
{  Report r;
   r << "[ $$0,0#00000000000000000000000000000000:Default]"
      "[{_}%EN-US"
      "[s0;C+92 Round 1 ]";  //it's OK

   r << "[s0;C+92 " << DeQtf("Round 1") << " ]";  // doesn't work
   r << "[s0;C+92 " <<
DeQtf("=================================================") <<" ]" ;
   Print( r, 1, "Preview");
}
```

───

Page 4 of 10 ---- Generated from   U++ Forum

Page 4 of 10 ---- Generated from   U++ Forum

This produce problem (see attached picture) because do not recognise the final "]" and this seems strange to me.

I've even tried
   r.SetFont(Courier(12));
with no success. So, is there a way to set by default the Courier font?

Luigi

File Attachments
1) swiss6.jpg, downloaded 3245 times

Subject: Re: How to Print a file inside LineEdit
Posted by mirek on Mon, 15 May 2006 23:35:42 GMT
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forlano wrote on Mon, 15 May 2006 17:13luzr wrote on Mon, 15 May 2006 22:00
You can "avoid" qtf by calling DeQtf for texts you pass... That will add escape characters that will "quote" original text in Qtf.


```
void  VegaTab4::PrintCB()
{  Report r;
// r.Header("[A2> Page $$P");
 r << "Round 1";
   r <<
DeQtf("===============================================================");
   r << DeQtf("  1 =   4 Karpov, Igor        -  2 Karpov, Vadim       = 1 - 0");
   r << DeQtf("------------------------------------------------------------");
   Print( r, 1, "Preview");
// Perform(r); //same format error
}
```


Mirek
I tried and it works. Unfortunatly there is again one more problem   : by default it is set the proportional font. Instead i would like to print with courier font to preserve the vertical alignment present in the file. Using UWord I got the format command to print with courier, say 11. So I've tried to embed one
Quote:

What about reading QTF reference instead?

http://upp.sourceforge.net/srcdoc$RichText$QTF$en-us.html

text line in a formatted command line with courier font like this:

```
void  VegaTab4::PrintCB()
{  Report r;
    r << "[ $$0,0#0000000000000000000000000000000:Default]"
        "[{_}%EN-US"
        "[s0;C+92 Round 1 ]";  //it's OK

    r << "[s0;C+92 " << DeQtf("Round 1") << " ]";  // doesn't work
    r << "[s0;C+92 " <<
DeQtf("=================================================") <<" ]" ;
    Print( r, 1, "Preview");
}
```
This produce problem (see attached picture) because do not recognise the final "]" and this
seems strange to me.

I've even tried
    r.SetFont(Courier(12));
with no success. So, is there a way to set by default the Courier font?

Luigi

There is one tricky thing about Report::operator<< - it takes each call as separate qtf text. So

r << "[s0;C+92 " << DeQtf("Round 1") << "]";

makes for 3 separate texts.

To fix it, simply add texts together:

r << "[s0;C+92 " + DeQtf("Round 1") + "]";

(Note that adding here is possible becase DeQtf returns String).

Mirek

---

luzr wrote on Tue, 16 May 2006 01:35To fix it, simply add texts together:

r << "[s0;C+92 " + DeQtf("Round 1") + "]";

(Note that adding here is possible becase DeQtf returns String).

Mirek

Thanks to your help now everything works as I wanted.
I think this way to print (knowing it) is superior to that to send directly the file to the printer. In fact the font size can be selected and the text can be rescaled and reoriented before to send it to the printer. This is of course more flexible. For this reason I've added a size font selector that rescale the image file when necessary.
Now I need few information to permit me to organize a good pagination. Report has too much option and I'm a bit lost.
I run the following commands regarding the dimension and I've obtained the following results:

1) sz = r.GetSize();   // 3968 x 6074 => aspect ratio = 0.652)
2) sz = r.GetPageMMs(); // 320 x 240 => aspect ratio = 0.75
3) sz = r.GetPagePixels(); // 1024 x 768 => aspect ratio = 0.75

I guess GetPageMMs() returns the dimensions in millimeters.
Now 2) and 3) returns dimensions that produce the same aspect ratio. So I wonder what GetSize() returns to give a different aspect ratio.

In the row

    r << "[s0;C+92 " + DeQtf("=====================================") + "]" ;

which are the unit of the font height indicated by '92'?

Last question. If I send my code example to the printer (actually a pdfdriver) I obtain the following attached picture.
In it you can see an offset both for vertical and horizontal in the top left page. But If I preview it with Perform(r) the offset is absent on the screen! So, is it present some offset or the pdfprinter do some bad joke?

Thank you.

Luigi

PS: I guess these information, knowing the the number of lines of the file (maybe even the longest row of the file), should be enough to produce an acceptable pagination. If I need some other parameter please let me know it.

File Attachments
1) swiss5.jpg, downloaded 3367 times

Subject: Re: How to Print a file inside LineEdit
Posted by mirek on Tue, 16 May 2006 20:11:45 GMT
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Well, there is one important thing to know about U++ "distances".

Basically said, if the output goes to the screen, they are in pixels.

However, if there is "physical representation" (paper from the printer, or e.g. PDF which is in fact paper from the printer again), U++ uses "dots", where dot is defined as "pixel in 600dpi resolution".

And that is what GetSize returns. Actually, those numbers are choosen for A4 page and are indeed quite conservative (in fact, most printers are capable printing in much wider area, but it is different for each printer). When Report prints the page out, it takes "printer" page dimension and centres report size whithin it.

Mirek

Subject: Re: How to Print a file inside LineEdit
Posted by forlano on Wed, 17 May 2006 17:16:31 GMT
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The following code snippet read a text file and print it via the Report control. The font used is Courier. The size font, hf, come from the widget "FontHeight edt". Each line of the file is sent to report with

```
    r << "[s0;C+" + sizefont + DeQtf(line) + " ]";
```

Luigi

```
void  VegaTab4::PrintCB()
{
    Report r;
    FileIn in(filename);
    String sizefont;
    r.SetPageSize(4500, 6300); // reduce the left margin

    double hf = StrDblValue(AsString(~edt));
    sizefont = AsString( (int)(59 + (hf - 7.) * 10.) ) ;

    while(!in.IsEof()) {
 String line = in.GetLine();
        r << "[s0;C+" + sizefont + DeQtf(line) + " ]";
    }
```

```
    in.Close();

    // Print( r, 1, "Preview");
    Perform(r);
}
```

Subject: Re: How to Print a file inside LineEdit
Posted by mirek on Wed, 17 May 2006 18:30:26 GMT
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There should be a single space after sizefont to delimit/terminate qtf command sequence... And ending "]" is not necessary here:

r << "[C+" + sizefont + ' ' + DeQtf(line);

Mirek

Subject: Re: How to Print a file inside LineEdit
Posted by forlano on Wed, 17 May 2006 18:45:40 GMT
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luzr wrote on Wed, 17 May 2006 20:30There should be a single space after sizefont to delimit/terminate qtf command sequence... And ending "]" is not necessary here:

r << "[C+" + sizefont + ' ' + DeQtf(line);

Mirek

ooops... , you are right and in my code there is. In fact without it I couldn't print. In the original version the space was in size font

sizefont = AsString((int)(59 + (hf - 7.) * 10.)) + " ";

But I didn't like there. So I removed it from there to move in r <<... but I forgot to add ...
About "]" good to know.

Luigi