

Wt - Support #2066

Usage of QPainter in WQApplication

07/26/2013 12:09 PM - Vitaly Volochay

Status:	Closed	Start date:	07/26/2013
Priority:	High	Due date:	
Assignee:	Wim Dumon	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:	3.3.0		
Description			
Hello! I want to know is it possible to draw with QPainter on QImage (for example) in WQApplication. Other question is what restriction WPainter has compared to QPainter?			
Thank you.			

History

#1 - 07/29/2013 12:54 PM - Koen Deforche

- Status changed from New to Feedback

- Assignee set to Koen Deforche

Hey,

We've never done that, but I wouldn't see why that doesn't work (assuming that Qt allows the use of QPainter and QImage in a 'console' application?).

WPainter provides pretty much the same API as QPainter; it's main differences are in API to load images, and Wt also has not as much support of computing (mathematically) properties of painted painter paths (e.g. intersections etc...).

Regards,

koen

#2 - 07/29/2013 02:35 PM - Vitaly Volochay

Thanks for you answer!

I tried code below and it works widget with picture shows up (its in WQApplication::create()):

```
QString imageName = "qimage.png";
```

```
QPainter painter;
```

```
painter.setPen(QPen(Qt::color1));
```

```
painter.drawRect(QRect(0,0,50,50));
```

```
painter.end();
```

```
image.save(imageName);
```

```
Wt::WFileResource *imageFile = new Wt::WFileResource("image/png", imageName.toString());
```

```
Wt::WImage *wImage = new Wt::WImage(imageFile, "PNG version");
```

```
mainLayout->addWidget(wImage, 1);
```

but there is a problem: when I navigate in menu (WNavigationBar with WMenu), warning popup windows appears: "Wt internal error: SyntaxError: Unexpected token ILLEGAL, code: undefined, description: undefined". I think it somehow linked with changes in internal path. I also figured out that all this happens because of one string:

```
image.save(imageName);
```

If I remove this one - no problem solved, but i don't see another way to pass QImage -> WImage without saving it to file.

Can you tell me how to fix it please?

#3 - 07/29/2013 02:43 PM - Koen Deforche

Hey,

I cannot link this error to setting a filename to the image. Would be it easy for you to isolate this problem in a small test case for us to investigate?

Regards,

koen

#4 - 07/29/2013 02:58 PM - Vitaly Volochay

It's not because of setting file name of image but because of saving it to file on disk. I will write minimum application and attach it here.

#5 - 07/29/2013 05:07 PM - Vitaly Volochay

Seems like I localized a problem. There is no problem with internal path, there is a problem with WPaintedWidget. After I call QImage::save() and then create inheritor of WPaintedWidget there popup warning starting to appear.

Seems like I've got similar problem as this: <http://redmine.webtoolkit.eu/boards/2/topics/6445>

If you want I will attach min application.

#6 - 07/29/2013 05:30 PM - Wim Dumon

Maybe see the answer here: <http://redmine.webtoolkit.eu/boards/2/topics/6462>

So can you verify that Qt didn't sneakily modify your C locale? Wt requires that the selected C locale formats its numbers like the default C locale, which isn't the case on some locales.

Wim.

#7 - 07/29/2013 05:41 PM - Vitaly Volochay

- File main.cpp added

I don't even create QApplication and setlocale(LC_NUMERIC,"C") doesn't help me.

I create an example, it shows that after I save QImage I can't create WPaintedWidget inheritors. Source file is in attachment.

#8 - 07/29/2013 09:48 PM - Koen Deforche

Hey,

It works for me, even when commenting out setLocale() and adding a QApplication to main().

This is with Wt's latest git (although I suspect that doesn't matter) and Qt 4.8.1 on Ubuntu.

I'm curious what's affecting your (and the other reported) WPaintedWidget though. Except for locale I cannot imagine how Qt can interfere with it. Could you capture the requests in Chrome and send me the last one when you get the failure?

Regards,

koen

#9 - 07/30/2013 09:56 AM - Vitaly Volochay

Koen Deforche wrote:

Hey,

It works for me, even when commenting out setLocale() and adding a QApplication to main().

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I'm curious what's affecting your (and the other reported) WPaintedWidget though. Except for locale I cannot imagine how Qt can interfere with it. Could you capture the requests in Chrome and send me the last one when you get the failure?

Regards,

koen

I tried it and mozilla and sometimes it works fine, but sometimes I relaunch wt server and get this error:

"Wt internal error: SyntaxError: identifier starts immediately after numeric literal, code: undefined, description: undefined".

