

# QGIS Application - Bug report #7340

## GRASS Shell cursor misbehaving

2013-03-12 06:57 PM - Thomas W

<b>Status:</b> Closed	
<b>Priority:</b> Normal	
<b>Assignee:</b> Radim Blazek	
<b>Category:</b> GRASS	
<b>Affected QGIS version:</b> master	<b>Regression?:</b> No
<b>Operating System:</b> linux, OSX	<b>Easy fix?:</b> No
<b>Pull Request or Patch supplied:</b> No	<b>Resolution:</b>
<b>Crashes QGIS or corrupts data:</b> No	<b>Copied to github as #:</b> 16322

### Description

In the GRASS Shell the cursor misbehaves badly. Typing a single character causes it to be half-obscured by the solid black cursor. With longer commands, the cursor continues to "lag" the typing, with the last two or more characters typed being invisible. Moving the cursor with the arrow keys results in the character the cursor is on showing correctly, but preceding characters being outright hidden.

I would say the behaviour renders the GRASS Shell in QGIS more or less unusable.

I am running Kubuntu 12.10, with QGIS installed from the ubuntuGIS PPA.

QGIS About page:

QGIS version

1.8.0-Lisboa

QGIS code revision

exported

Compiled against Qt

4.8.3

Running against Qt

4.8.3

Compiled against GDAL/OGR

1.9.2

Running against GDAL/OGR

1.9.2

GEOS Version

3.3.3

PostgreSQL Client Version

9.1.6

Spatialite Version

3.1.0-RC2

QWT Version

6.0.0-svn

### Associated revisions

Revision 8a4499b2 - 2013-05-30 03:33 PM - Radim Blazek

GRASS - set correctly qtermwidget font, fixes #7340

Revision 4c5c159a - 2013-06-07 04:42 PM - Radim Blazek

Force GRASS shell font by setStyleSheet, hopefully fixes #7340; added black on white scheme

## History

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### #1 - 2013-03-13 01:10 AM - Giovanni Manghi

- Category set to GRASS
- Target version set to Version 2.0.0
- Affected QGIS version changed from 1.8.0 to master

I have also seen this issue, it affects also master.

### #2 - 2013-04-06 09:50 AM - Giovanni Manghi

- Priority changed from Normal to Severe/Regression
- Operating System set to linux

### #3 - 2013-05-01 11:57 PM - John Tull

- Operating System changed from linux to linux, OSX

A note to say this problem is reproducible on my OSX platform with trunk as of 01 May 2013.

### #4 - 2013-05-30 02:46 AM - Radim Blazek

- Assignee set to Radim Blazek

### #5 - 2013-05-30 03:41 AM - Radim Blazek

I cannot reproduce it on Debian with Qt 4.6.3.

The GRASS shell is using copy of <http://qtermwidget.sourceforge.net> project which is abandoned. QTermWidget was based on Konsole: <https://projects.kde.org/projects/kde/applications/konsole>. The right solution would probably be to update GRASS shell to use Konsole project but that is most probably a lot of work and it could introduce more problems than this issue.

Try to find if it is only refresh problem, i.e. if some characters are not displayed correctly try to resize the window, minimize and restore etc.

### #6 - 2013-05-30 06:01 AM - Radim Blazek

The problem seems to be described here [https://bugs.kde.org/show\\_bug.cgi?id=215937](https://bugs.kde.org/show_bug.cgi?id=215937). It seems to be due to wrong font metrics or something like that. I am able to reproduce it changing

```
font.setPointSize( 10 );
```

to

```
font.setPointSize( 20 );
```

in src/plugins/grass/qtermwidget/qtermwidget.cpp. The font size in shell is not changed but cursor is shifted. The shift is fixed and does not depend on the length of the string typed.

**#7 - 2013-05-30 06:29 AM - Radim Blazek**

- Status changed from Open to Closed

Fixed in changeset commit:"8a4499b20dfc38581c0d844596431b7511050763".

**#8 - 2013-06-04 04:47 PM - Giovanni Manghi**

- File *grass\_cli.mp4* added

- Status changed from Closed to Feedback

- Priority changed from Severe/Regression to High

does not work here on Linux Mint on the latest master. See attached screenshot.

**#9 - 2013-06-06 10:15 AM - Radim Blazek**

Some observations:

- QTermWidget tries to set via TerminalDisplay::setVTFont font with family "Monospace"
- setVTFont() calls QWidget::setFont() but it fails, the font is forced from somewhere else
- if default font used for the widget is not monospace, width calculations do not work (even it seems that non monospace should also be supported, see `_fixedFont` flag) and result is cursor shift
- the problem seems to appear especially on GNOME
- default GNOME 3 font-name is "Cantarell 11" and that is applied also to GRASS shell
- if I change the font in `gconf: org > gnome > desktop > interface > font-name` to "Courier", the shift disappears

I'll try to find why it is not possible to set the font on the widget.

**#10 - 2013-06-06 10:17 AM - Giovanni Manghi**

- Priority changed from High to Normal

**#11 - 2013-06-07 07:36 AM - Radim Blazek**

- Status changed from Feedback to Closed

Fixed in changeset commit:"4c5c159ae297602fed631905669ffc0a92beb9d7".

**#12 - 2013-06-07 07:46 AM - Radim Blazek**

`QWidget::setFont()` does not guarantee to really change the font, I added

```
setStyleSheet( "font-size: 10pt; font-family: Monospace;" )
```

on the `TerminalDisplay` but it has some side effects like setting background to black so that some more changes were necessary.

I have tested on Gnome where cursor was shifted before and it works.

I have also set black on white scheme.

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**Files**

