QGIS Application - Bug report #3643
wrong direction of label direction symbol

2011-03-20 02:49 AM - Sandro Santilli

Status:	Closed			
Priority:	Low			
Assignee:	Marco Hugentobler			
Category:	Symbology			
Affected QGIS version:		**Regression?:**	No	
Operating System:	Debian	**Easy fix?:**	No	
Pull Request or Patch supplied:	No	**Resolution:**	fixed	
Crashes QGIS or corrupts data:		**Copied to github as #:**	13702	

Description

As you can see in the attached image, the "direction symbol" added by the label disagrees with the "direction symbol" of the line decoration.

I know the line decoration (the endpoint arrow) is correct.
Note that line decoration was fixed by r15076 (see #3434) so a similar approach could be just copied over

The bug occurs with r11539 on a x84-64

History

#1 - 2011-03-23 02:58 PM - Marco Hugentobler

Is this only for vertical lines or for others too? Could you attach a small testdataset to reproduce the problem?

#2 - 2011-03-24 01:10 AM - Sandro Santilli

Seems to be vertical lines only.
I attach a shapefile. Turn on arrows decoration on symbology-ng and orientation symbol on labels. Arrow decorations are correct.

#3 - 2011-03-24 09:24 AM - Marco Hugentobler

- Status changed from Open to Closed

- Resolution set to fixed

Fixed in commit:76d0e28d (SVN r15592)

#4 - 2011-03-29 05:20 AM - Sandro Santilli

- Resolution deleted (fixed)

- Status changed from Closed to Feedback

Indeed commit:76d0e28d (SVN r15592) fixed the attached edge.zip case, but it's still wrong for another dataset :/
I'm attaching it..

#5 - 2011-03-29 05:26 AM - Sandro Santilli

In particular, edges with id 5 and 7 of qgisbug3543_1.zip are disagreed upon between label and line decoration. They are both going down, so line decoration is correct and label orientation symbol is wrong.

#6 - 2011-03-29 05:27 AM - Sandro Santilli

I'd add that the original testcase only contained lines oriented from bottom up, which may explain why this case wasn't cought.

#7 - 2011-03-29 05:54 AM - Sandro Santilli

The attached patch (bug3643.diff) fixes it for me, for both datasets.
Might not be extremely elegant, but should be also more robust..

#8 - 2011-03-29 05:59 AM - Sandro Santilli

A slightly more elegant version:


```
diff --git a/src/core/pal/feature.cpp b/src/core/pal/feature.cpp
index 6f657b1..5501434 100644
--- a/src/core/pal/feature.cpp
+++ b/src/core/pal/feature.cpp
@@ -596,7 +596,7 @@ namespace pal
    {
      //std::cout << alpha*180/M_PI << std::endl;
      if ( flags & FLAG_MAP_ORIENTATION )
-         reversed = ( alpha > M_PI / 2 || alpha < -M_PI / 2 );
+         reversed = ( (ex == bx && ey < by ) || ( alpha > M_PI / 2 || alpha < -M_PI / 2 ) );

      if (( !reversed && ( flags & FLAG_ABOVE_LINE ) ) || ( reversed && ( flags & FLAG_BELOW_LINE ) ) )
        positions->push_back( new [[LabelPosition]]( i, bx + cos( beta ) *distlabel , by + sin( beta ) *distlabel, xrm, yrm, alpha, cost, this, reversed )
); // Line
```


#9 - 2011-03-29 06:26 AM - Sandro Santilli

Even smaller is just moving re-adding the equal sign but to the right part:

```
-         reversed = ( alpha > M_PI / 2 || alpha < -M_PI / 2 );
+         reversed = ( alpha > M_PI / 2 || alpha <= -M_PI / 2 );
```


Works fine in my case, altought the equality comparison between the return from atan2 and M_PI/2 looks scary (miracles!)

This final version seems to be the closest to the original code, where the equal sign was in the first rather than second side of ||.

#10 - 2011-03-29 08:52 AM - Marco Hugentobler
- Resolution set to fixed
- Status changed from Feedback to Closed

Applied the second version in commit:9a167ba0 (SVN r15638). Thanks!

#11 - 2011-03-29 10:25 AM - Sandro Santilli

Great. I confirm the fix. You can close the grave now :)

#12 - 2011-07-08 05:53 AM - Mayeul Kauffmann

- Resolution deleted (fixed)

- File line-driven_label_orientation.png added

Hi,

The bug is fixed only when the radio button "Orientation" is set to "map", not "line".

There are two ways to fix this:

1. Rotate 180° the label and the arrow (write upside down)

2. Reverse the arrow ">" only

I would strongly suggest solution 1. This would allow to follow a frequent cartographic convention for contour lines: put number written uphill (see attached screenshot): this is used on all official French topographic map by the IGN. This seems logical even just by reading the QGIS dialog box: "Orientation"

#13 - 2011-07-08 05:54 AM - Mayeul Kauffmann

- File test_label_orientation.qgs added

#14 - 2011-07-08 05:56 AM - Mayeul Kauffmann

- File test_label_orientation.sqlite added

#15 - 2011-10-22 02:51 AM - Sandro Santilli

- Pull Request or Patch supplied set to No

Mayeul: I've filed #4424 for your request. This bug was specifically about the "Add direction symbol".

By the way, now that I try enabling that it seems to be not working anymore ?!

#16 - 2011-10-22 02:55 AM - Sandro Santilli

- Target version changed from Version 1.7.0 to Version 1.7.1

- Must fix changed from No to Yes

Gah. I confirm this is still broken.

First of all direction symbol is only shown with with "parallel" placement (nothing shown with "curved" or "horizontal").

Second, the bug is still there when orientation is "line" rather than "map".

#17 - 2011-10-22 06:07 AM - Sandro Santilli

How do we reopen this bug ? I personally can't change the "Status" field.

#18 - 2011-10-22 06:12 AM - Sandro Santilli

I don't really get the meaning of "Map" vs. "Line" orientation, btw

#19 - 2011-10-22 06:19 AM - Sandro Santilli

The following changes since commit 59be561a4d9100fb2084006c2acc7df5798c52fc:
  Juergen E. Fischer (1):
      fix warnings and more cosmetics

are available in the git repository at:
    git@github.com:strk/Quantum-GIS.git dirsym

Sandro Santilli (1):
    Label direction symbol shouldn't depend on "map" vs. "line" orientation.   Refer to issue #3643 for further discussion
     src/core/pal/feature.cpp | 5 +---
      1 files changed, 2 insertions(), 3 deletions(-)

#20 - 2011-10-22 06:21 AM - Sandro Santilli

My "dirsym" branch implements solution 2 of Mayeul (as per this ticket subject).
For solution 1 see bug #4424

#21 - 2011-10-22 08:12 AM - Sandro Santilli

- Resolution set to fixed

Fix pushed to master as r697b35a4.

#22 - 2011-11-08 07:23 AM - Martin Dobias

- Resolution deleted (fixed)
- Status changed from Closed to Open

Reopening: the fix in commit:697b35a disables the option to set the orientation of the label to be dependent on line direction.

#23 - 2011-11-08 07:34 AM - Sandro Santilli

I'm not seeing that from the logs ?
Unless the commit log is broken:
https://issues.qgis.org/projects/quantum-gis/repository/revisions/697b35a4185df804baa0f648389a05ed8a7d59fa

#24 - 2011-11-08 11:58 AM - Martin Dobias

- Resolution set to fixed

- Status changed from Open to Closed

Fixed in commit:c37b63a, better variable naming and added some comments

Files

wrong_orientation_label.png	1.11 KB	2011-03-20	Sandro Santilli
edge.zip	1.67 KB	2011-03-24	Sandro Santilli
qgisbug3643_1.zip	1.04 KB	2011-03-29	Sandro Santilli
bug3643.diff	793 Bytes	2011-03-29	Sandro Santilli
line-driven_label_orientation.png	1.2 MB	2011-07-08	Mayeul Kauffmann
test_label_orientation.qgs	9.77 KB	2011-07-08	Mayeul Kauffmann
test_label_orientation.sqlite	3.52 MB	2011-07-08	Mayeul Kauffmann