

QGIS Application - Bug report #1993

North arrow changes direction (with OTFR disabled and projected CRS) at very high/low zoom levels

2009-10-10 09:11 AM - vince -

Status: Closed	
Priority: Low	
Assignee: Magnus Homann	
Category: Projection Support	
Affected QGIS version: master	Regression?: No
Operating System: All	Easy fix?: No
Pull Request or Patch applied: Yes	Resolution:
Crashes QGIS or corrupts data: No	Copied to github as #: 12053
Description	
Depending on the zoom level, the north arrow points sometimes north, sometimes south...	

Associated revisions

Revision a02d448b - 2018-09-28 10:29 AM - Alessandro Pasotti

[spatialite] Fix pk-less queries cannot be retrieved by id

Fixes #1993 - Zoom to feature" does not work

This actually fixes many more bugs related with the QGIS generated feature id (incremental) when using queries that was not consistent when using QgsFeature request with ids or bbox.

This is not a regression: the same error is in 2.18

History

#1 - 2009-10-10 10:59 AM - Giovanni Manghi

can you post sample data? are you using a geographic or projected crs? otfr on?

please try to be more specific when posting bugs otherwise it becomes hard to check them and confirm the bug.

#2 - 2009-10-10 11:37 AM - vince -

Ok, sorry. You will find appended a shapefile with French limits. Set project to Lambert 93 (EPSG 2154 or 2174, I don't remember) and try various zoom levels. The arrow move back and forth from north to south.

#3 - 2009-10-10 03:31 PM - Giovanni Manghi

I'm not really very deep into projections matters, so I may not be able to explain this correctly, and if I'm saying something wrong please correct me.

Try add a layer defined in wgs84, for example a shape of the world borders: to let your France shape overlap the world borders you will need to enable OTFR. If you define wgs84 as project CRS, then you'll see obviously all aligned and the north points upwards, regardless the zoom level.

Now change the project CRS to a projected system and zoom to your France layer, you'll obviously still see the north upwards, but then when you zoom out the north arrow will start change the direction because the world border layer "wraps". It seems to me that the direction changes depending on what you have in the centre of the canvas. ***

I'm not sure why this also happens when you zoom in a lot, but I see that it happens when the scale reads "4 cm", so I guess that is not really important.

I'm also not really sure why this happens with OTFR **not enabled** and the project defined with a **projected CRS**. Interestingly it seems to happen always when zooming in (a lot) regardless the projected crs, but I found that when zooming out with certain projected crs, the north arrow does not change direction. As I said I'm very scarce about this matters, so maybe there is a reason that makes perfect sense for this behaviour.

Doing such test I found a bug that crashes qgis under ubuntu, but I will open a separate ticket.

#4 - 2009-10-11 12:59 AM - vince -

To me, it is wrong at large and small scales. Look at the screenshots I made, always in Lambert 93 system.

#5 - 2009-10-11 02:27 AM - Giovanni Manghi

Replying to [comment:5 vince]:

| *To me, it is wrong at large and small scales. Look at the screenshots I made, always in Lambert 93 system.*

yes (if you are using oftr disabled), it is what I wrote in my last sentence. But again, it doesn't happens with all the projected crs, so maybe there is an explanation, maybe is a just a bug.

#6 - 2010-06-12 12:16 AM - Paolo Cavallini

Not quite sure it's really a bug. Further investigation needed

#7 - 2011-12-16 01:58 PM - Giovanni Manghi

- Target version changed from Version 1.7.0 to Version 1.7.4

#8 - 2012-04-16 06:22 AM - Paolo Cavallini

- Target version changed from Version 1.7.4 to Version 1.8.0

- Affected QGIS version set to master

- Crashes QGIS or corrupts data set to No

#9 - 2012-08-17 05:12 PM - Magnus Homann

- Pull Request or Patch supplied set to No

There were two things

1) Zoomed in: A tolerance for very small delta-x and delta-y prevented proper calculation of rotation.

2) Zoomed out: The center of the canvas was used for grabbing delta-x and delta-y. When zoomed out, the center of the canvas could possibly be "on the other side of the globe" compared to the layers in question.

A fix is in <https://github.com/qgis/Quantum-GIS/pull/205>

#10 - 2012-08-17 06:04 PM - Magnus Homann

- Pull Request or Patch supplied changed from No to Yes

#11 - 2012-08-17 09:36 PM - Tim Sutton

- Status changed from Open to Closed

Applied patch with commit:90e7baa

Closing ticket (thanks Magnus!). Please re-open if problem persists.

Tim

Files

dpts.zip	173 KB	2009-10-10	vince -
qgis_screen.png	63.6 KB	2009-10-10	Giovanni Manghi