

QGIS Application - Bug report #10396

Raster rendering in 2.3 vs 2.2

2014-05-29 02:29 PM - andskog -

Status:	Closed	
Priority:	Normal	
Assignee:		
Category:	Map Canvas	
Affected QGIS version:	master	Regression?: No
Operating System:		Easy fix?: No
Pull Request or Patch supplied:		Resolution: end of life
Crashes QGIS or corrupts data:		Copied to github as #: 18813
Description		
<p>The raster zooming and panning behavior seems to be different in master than the current 2.2 version. Although not bugs, maybe not improvements from 2.2 to 2.3.</p> <p>When zooming in, 2.2 seems to stay at the current level while preparing the new zoomed in map, and then zooms in when ready. Master (2.3) seems to zoom in, blank the map, and render the new zoomed in map when ready. The 2.3 behavior is less eye pleasing.</p> <p>Additionally, 2.2 renders the data much faster at my desk.</p>		

History

#1 - 2014-05-29 07:58 PM - Martin Dobias

The "old zoomed map -> blank -> new map" is not something specific to raster layers, it may happen also with vectors, it is just more obvious with rasters. The behaviour will need some updates to make better impression. The reason for it is that first 250 ms, the canvas shows previously rendered map transformed to the new extent (e.g. zoomed in). Then, the old map is replaced with preview of newly rendered map - which may be still blank at that point, giving the resulting effect. In the meantime you could increase the refresh ration in Options to a greater value to remove the effect.

Regarding faster/slower rendering, could you provide approximate timings of 2.2 vs 2.3 ? Also, we would need the data you used for the comparison.

#2 - 2014-05-30 01:07 AM - Giovanni Manghi

- Status changed from Open to Feedback

#3 - 2014-05-31 05:47 AM - andskog -

Rendering speed:

Used the DEM+HDF files available at http://dds.cr.usgs.gov/srtm/version2_1/SRTM30/w020n90/

Set project to EPSG 32661 (enabled on-the-fly projection), setting one extent covering the whole dataset in the left part of the canvas, another extent to the right part. Then using Zoom last / Zoom next for repeated tests.

Produced these averages:

QGIS2.2: 2.7 sec.

QGIS2.3: 4.3-5.3, most results above 5 sec.

#4 - 2014-05-31 05:55 AM - Giovanni Manghi

| Then using Zoom last / Zoom next for repeated tests.

here (Linux) it takes no time in zooming_in_out/last/next on both 2.2 and master

#5 - 2014-05-31 11:33 AM - Etienne Tourigny

maybe it's due to different settings, make sure they bot have rendering cache turned on (or off)

#6 - 2014-05-31 12:59 PM - andskog -

It's evident with any raster here. And regardless of map update interval settings. Cache settings are the same in both 2.2 and 2.3 (off). (It also reproduces when on-the-fly reprojection is turned off) ...

#7 - 2014-06-01 10:19 AM - Giovanni Manghi

andskog - wrote:

It's evident with any raster here. And regardless of map update interval settings. Cache settings are the same in both 2.2 and 2.3 (off). (It also reproduces when on-the-fly reprojection is turned off) ...

then better to attach here a full project and/or a screencast (to try better understand your issue).

#8 - 2014-06-01 12:46 PM - andskog -

- File *qg23rastertest.qgs* added

- File *qg22rastertest.qgs* added

I've attached QGIS 2.2 and 2.3 project files. Makes less sense to attach small (<5MB) raster file, as you (seems like it) have more powerful computers. But the settings should all be there. (Tested with ETOPO1 raster, available here:

http://www.ngdc.noaa.gov/mgg/global/relief/ETOPO1/data/ice_surface/grid_registered/georeferenced_tiff/ETOPO1_lce_g_geotiff.zip)

#9 - 2014-06-03 04:48 AM - Giovanni Manghi

- File *raster.mp4* added

andskog - wrote:

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http://www.ngdc.noaa.gov/mgg/global/relief/ETOPO1/data/ice_surface/grid_registered/georeferenced_tiff/ETOPO1_lce_g_geotiff.zip*)*

see attached screencast

#10 - 2014-06-03 02:11 PM - andskog -

- File *23.mp4* added

- File *22.mp4* added

To me it seems kind of apparent in your screen capture too. I've attached mine. 2.2 takes ~1.3s, 2.3 takes ~2.3s. (The difference is there also when zooming in on places not zoomed in to before.)

#11 - 2014-06-03 11:52 PM - Giovanni Manghi

- Status changed from Feedback to Open

#12 - 2014-06-28 07:45 AM - Jürgen Fischer

- Target version changed from Version 2.4 to Future Release - High Priority

#13 - 2017-05-01 01:08 AM - Giovanni Manghi

- Regression? set to No

- Easy fix? set to No

#14 - 2019-03-09 04:04 PM - Giovanni Manghi

- Resolution set to end of life

- Status changed from Open to Closed

End of life notice: QGIS 2.18 LTR

Source:

<http://blog.qgis.org/2019/03/09/end-of-life-notice-qgis-2-18-ltr/>

Files

qg22rastertest.qgs	4.54 KB	2014-06-01	andskog -
qg23rastertest.qgs	4.64 KB	2014-06-01	andskog -
raster.mp4	1.83 MB	2014-06-03	Giovanni Manghi
22.mp4	252 KB	2014-06-03	andskog -
23.mp4	197 KB	2014-06-03	andskog -