

# QGIS Application - Bug report #20016

## QGIS 3 is much less responsive than QGIS 2.18

2018-10-04 06:31 PM - Alexey T

<b>Status:</b> Closed	
<b>Priority:</b> Normal	
<b>Assignee:</b>	
<b>Category:</b> GUI	
<b>Affected QGIS version:</b> 3.3(master)	<b>Regression?:</b> No
<b>Operating System:</b> Win7	<b>Easy fix?:</b> No
<b>Pull Request or Patch supplied:</b> No	<b>Resolution:</b> no timely feedback
<b>Crashes QGIS or corrupts data:</b> No	<b>Copied to github as #:</b> 27838
<b>Description</b>	
I have both QGIS 3 and 2.18 installed. Since version 3 UI has become very unresponsive and laggy. Looks like as it freezes a little bit every second.	

### History

#### #1 - 2018-10-04 08:54 PM - Giovanni Manghi

- Status changed from Open to Feedback

- Subject changed from QGIS 3 is much less responsive than QGIS 2.18 to QGIS 3 is much less responsive than QGIS 2.18

You observe this regardless of the amount/type of data you have in the project? Can you test with a clean/new profile so we can exclude a bad 3rd party plugin or a legacy configuration? thanks.

#### #2 - 2018-10-04 10:35 PM - Alexey T

Look what I found.

All plugins are disabled.

I have a large group of GeoTIFF layers in my project.

When I disable this group everything is OK.

When I enable this group UI becomes laggy even if layer is not in a canvas

The same layer group in QGIS 2 doesn't affect UI responsiveness

#### #3 - 2018-10-04 10:44 PM - Giovanni Manghi

Alexey T wrote:

*Look what I found.*

*All plugins are disabled.*

*I have a large group of GeoTIFF layers in my project.*

*When I disable this group everything is OK.*

*When I enable this group UI becomes laggy even if layer is not in a canvas*

*The same layer group in QGIS 2 doesn't affect UI responsiveness*

Can you share the dataset?

**#4 - 2018-10-05 09:34 AM - Alexey T**

I made further investigation  
My raster layers are in EPSG:4326

When I set current view to EPSG:3395 or any other CRS, QGIS becomes laggy even if there is nothing to draw on the canvas  
When I set current view to EPSG:4326 everything is OK.  
This doesn't happen in QGIS 2.18  
This is somehow related to On The Fly CRS transformations

The project is here (50 Mb):  
<https://yadi.sk/d/0rDe-wm9Le8Uzw>

**#5 - 2018-10-05 09:49 AM - Giovanni Manghi**

*The project is here (50 Mb):*  
<https://yadi.sk/d/0rDe-wm9Le8Uzw>

missing tif files.

**#6 - 2018-10-05 09:59 AM - Alexey T**

Sorry here it is  
[https://yadi.sk/d/TAo\\_ezPuBZ2HjA](https://yadi.sk/d/TAo_ezPuBZ2HjA)

**#7 - 2018-10-05 10:21 AM - Mathieu Pellerin - nIRV**

Alexy, which version of QGIS 3 are you referring to? 3.0, 3.2, or a current master build?

First thought that comes to mind as a possible cause for regression: CRS transform context.

**#8 - 2018-10-05 10:30 AM - Alexey T**

Recently this issue was tested in QGIS Desktop 3.2.3 x64  
And as far as I remember this happens in some previous versions of 3.x.x

**#9 - 2018-10-05 11:44 AM - Giovanni Manghi**

Alexey T wrote:

*Recently this issue was tested in QGIS Desktop 3.2.3 x64  
And as far as I remember this happens in some previous versions of 3.x.x*

Just tested on master/Linux and can't see any difference when changing between CRSs. Also your tif file do not have any pyramids/overviews, that would improve much your map navigation experience.

**#10 - 2018-10-05 12:36 PM - Alexey T**

In my original project I have pyramids. Didn't include it in this test

**#11 - 2018-10-06 11:13 AM - Giovanni Manghi**

Alexey T wrote:

| *In my original project I have pyramids. Didn't include it in this test*

I received a notification with this comment

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Checked this once again.

I have two files in archive

test.qgz - saved in 3.2

test.qgs - the same saved in 2.18

when I open qgZ with 3.2 UI is laggy

when I open qgS with 3.2 UI is not laggy

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but the comment is not here on redmine, is the observation correct?

I can't notice any measurable lag when opening the QGZ version of your project (on Linux here).

**#12 - 2018-10-06 01:18 PM - Alexey T**

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Checked this once again.

I have two files in archive

test.qgz - saved in 3.2

test.qgs - the same saved in 2.18

when I open qgZ with 3.2 UI is laggy

when I open qgS with 3.2 UI is not laggy

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No, this is not correct.

**#13 - 2018-11-01 05:00 PM - mr twister**

Alexey, are your files stored locally or on a network share?

**#14 - 2018-11-02 08:26 AM - Alexey T**

No, the files are stored in the same folder as the project on local HDD

**#15 - 2018-11-02 09:46 AM - Giovanni Manghi**

- Status changed from Feedback to Open

**#16 - 2018-11-09 09:10 PM - Alexey T**

Today I figured out that QGIS uses 13% of my CPU for some time (10 or 15 secs) after canvas movement or layer rearrangement. As I have 8 cores, it means that it uses 100% of one core.

This is the cause of system lags.

Not only QGIS is laggy but all other applications.

Is there some logs or debug messages to see what QGIS is doing?

**#17 - 2018-11-09 09:34 PM - Nyal Dawson**

- Status changed from Open to Feedback

Alexey - download DebugView from <https://docs.microsoft.com/en-us/sysinternals/downloads/debugview> and launch, then launch QGIS and open your project. See if there's anything interesting printed to the debugview logs.

**#18 - 2018-11-10 05:57 PM - Alexey T**

No there is nothing in logs

**#19 - 2018-11-10 06:11 PM - Alexey T**

I opened logs panel in QGIS 3.4.1. It shows many rendering warnings

2018-11-10T20:03:20 WARNING Canvas refresh: 2600 ms

Each time I move canvas there are bunch of warnings. And they continue to appear for 10-15 seconds again and again after canvas moving. Even if canvas area is scrolled out of any data.

"forest\_bounds\_" layers are raster layers. Others are vector.

2018-11-10T20:03:31 WARNING 1 ms: camp\_67648bf9\_34bd\_4d78\_b5ab\_7a1a8ef50b61, 614\_01120171120000132389, 635\_020171120000200734, 607\_020171120000030595, 603\_00220171120000003911, 606\_020171120000015741, 632\_020171120000150474, стоянки\_на\_подходах20171119232301092, мелкое\_строение20171119232441956, дом20171119232505765, названия\_хребтов\_2020171119232906556, автомобильный\_мост20171119233028069, 403\_00220171119235751317, river\_waterfall\_cdcba1b8\_5b1a\_4152\_8de7\_326d81d50430, river\_dry\_6225b78f\_2cd6\_4611\_bdf1\_00f4ed3f3706, residential\_c20b8b2a\_2678\_4032\_83de\_4382906fddd7, каменистость20171119233936480, скальные\_выходы20171119233623926, 204\_020171119235639554, 112\_00220171119235610980, 501\_020171119235832758, 515\_020171119235846573, названия\_ледников\_1220171119222707439, названия\_ледников\_720171119222537974, названия\_ледников\_520171119222245476, forest\_bounds\_k44\_097\_320171129211240269, forest\_bounds\_k44\_087\_120171129211239754, forest\_bounds\_k44\_086\_320171129211239609, forest\_bounds\_k44\_076\_220171129211238385, forest\_bounds\_k44\_075\_220171129211237790, forest\_bounds\_k44\_075\_120171129211237643, forest\_bounds\_k44\_074\_320171129211237362, forest\_bounds\_k44\_074\_220171129211237218, forest\_bounds\_k44\_074\_120171129211237077, forest\_bounds\_k44\_073\_420171129211236940, forest\_bounds\_k44\_073\_220171129211236659, forest\_bounds\_k44\_073\_120171129211236516, forest\_bounds\_k44\_065\_320171129211236230, forest\_bounds\_k44\_064\_320171129211235665, forest\_bounds\_k44\_063\_120171129211234825,

forest\_bounds\_k44\_062\_420171129211234688, forest\_bounds\_k44\_062\_320171129211234557, forest\_bounds\_k44\_062\_220171129211234420, forest\_bounds\_k44\_062\_120171129211234281, forest\_bounds\_k44\_061\_420171129211234148, forest\_bounds\_k44\_061\_320171129211234011, forest\_bounds\_k44\_053\_120171129211233204, forest\_bounds\_k44\_052\_120171129211232674, forest\_bounds\_k44\_051\_420171129211232541, forest\_bounds\_k44\_051\_320171129211232408, forest\_bounds\_k44\_051\_120171129211232139, forest\_bounds\_k44\_050\_420171129211232008, forest\_bounds\_k43\_129\_220171129211231228, forest\_bounds\_k43\_127\_420171129211231108, forest\_bounds\_k43\_127\_320171129211230989, forest\_bounds\_k43\_127\_220171129211230869, forest\_bounds\_k43\_127\_120171129211230750, forest\_bounds\_k43\_126\_420171129211230631, forest\_bounds\_k43\_126\_220171129211230495, forest\_bounds\_k43\_118\_120171129211229384, forest\_bounds\_k43\_117\_420171129211229262, forest\_bounds\_k43\_117\_220171129211229027, forest\_bounds\_k43\_115\_320171129211228188, forest\_bounds\_k43\_115\_120171129211227946, forest\_bounds\_k43\_108\_420171129211227826, forest\_bounds\_k43\_108\_320171129211227711, forest\_bounds\_k43\_107\_120171129211227049, forest\_bounds\_k43\_106\_420171129211226943, forest\_bounds\_k43\_106\_320171129211226830, forest\_bounds\_k43\_106\_220171129211226718, forest\_bounds\_k43\_105\_320171129211226386, forest\_bounds\_k43\_105\_220171129211226275, forest\_bounds\_k43\_104\_320171129211225948, forest\_bounds\_k43\_104\_220171129211225837, forest\_bounds\_k43\_104\_120171129211225725, forest\_bounds\_k43\_096\_420171129211225625, forest\_bounds\_k43\_096\_320171129211225526, forest\_bounds\_k43\_095\_420171129211225217, forest\_bounds\_k43\_095\_320171129211225097, forest\_bounds\_k43\_095\_220171129211224990, forest\_bounds\_k43\_094\_320171129211224655, forest\_bounds\_k43\_094\_220171129211224541, forest\_bounds\_k43\_093\_320171129211224215, forest\_bounds\_k43\_093\_220171129211224109, forest\_bounds\_k43\_093\_120171129211224002, forest\_bounds\_k43\_092\_420171129211223900, forest\_bounds\_k43\_092\_220171129211223795, forest\_bounds\_k43\_084\_120171129211223410, forest\_bounds\_k43\_083\_420171129211223309, forest\_bounds\_k43\_083\_320171129211223205, forest\_bounds\_k43\_082\_320171129211222807, forest\_bounds\_k43\_082\_220171129211222712, forest\_bounds\_k43\_081\_420171129211222500, forest\_bounds\_k43\_081\_320171129211222399, forest\_bounds\_k43\_081\_120171129211222200, forest\_bounds\_k43\_080\_420171129211222102, forest\_bounds\_k43\_080\_320171129211222005, forest\_bounds\_k43\_080\_220171129211221909, forest\_bounds\_k43\_072\_220171129211221464, forest\_bounds\_k43\_072\_120171129211221370, forest\_bounds\_k43\_071\_420171129211221276, forest\_bounds\_k43\_071\_320171129211221183, forest\_bounds\_k43\_071\_120171129211220998, forest\_bounds\_k43\_070\_420171129211220905, forest\_bounds\_k43\_070\_120171129211220611, forest\_bounds\_k43\_069\_420171129211220520, forest\_bounds\_k43\_069\_320171129211220429, forest\_bounds\_k43\_068\_420171129211220160, forest\_bounds\_k43\_068\_320171129211220072, forest\_bounds\_k43\_068\_120171129211219895, forest\_bounds\_k43\_061\_420171129211219805, forest\_bounds\_k43\_061\_120171129211219538, forest\_bounds\_k43\_060\_420171129211219451, forest\_bounds\_k42\_072\_320171129211218967, forest\_bounds\_k42\_072\_120171129211218831  
2018-11-10T20:03:31 WARNING 0 ms: 903\_01620171119235917558, forest\_bounds\_k44\_097\_220171129211240118, forest\_bounds\_k44\_086\_120171129211239296, forest\_bounds\_k44\_085\_220171129211238850, forest\_bounds\_k44\_076\_320171129211238552, forest\_bounds\_k44\_075\_420171129211238089, forest\_bounds\_k44\_065\_220171129211236091, forest\_bounds\_k44\_064\_420171129211235807, forest\_bounds\_k44\_064\_120171129211235383, forest\_bounds\_k44\_053\_420171129211233606, forest\_bounds\_k44\_053\_220171129211233338, forest\_bounds\_k44\_052\_320171129211232943, forest\_bounds\_k44\_050\_220171129211231740, forest\_bounds\_k44\_049\_320171129211231348, forest\_bounds\_k43\_120\_120171129211230181, forest\_bounds\_k43\_118\_420171129211229751, forest\_bounds\_k43\_118\_220171129211229509, forest\_bounds\_k43\_116\_320171129211228672, forest\_bounds\_k43\_116\_120171129211228427, forest\_bounds\_k43\_108\_220171129211227603, forest\_bounds\_k43\_107\_420171129211227384, forest\_bounds\_k43\_106\_120171129211226606, forest\_bounds\_k43\_104\_420171129211226056, forest\_bounds\_k43\_095\_120171129211224885, forest\_bounds\_k43\_093\_420171129211224319, forest\_bounds\_k43\_083\_120171129211223006, forest\_bounds\_k43\_080\_120171129211221813, forest\_bounds\_k43\_072\_320171129211221559, forest\_bounds\_k43\_070\_220171129211220702, forest\_bounds\_k43\_069\_120171129211220250, forest\_bounds\_k43\_061\_220171129211219626, forest\_bounds\_k42\_084\_220171129211219225  
2018-11-10T20:03:31 WARNING -1 ms: Labeling

The same project in QGIs 2.18 renders not too fast, but it is one time warnings. They do not continue to appear again and again after canvas is redrawn.

2018-11-10T20:10:10 1 Canvas refresh: 2012 ms  
2018-11-10T20:10:17 1 428 ms: n041e07720181008225341631  
2018-11-10T20:10:17 1 140 ms: forest\_bounds\_k43\_084\_120181008225915379  
2018-11-10T20:10:17 1 35 ms: river\_small20181002192541245  
2018-11-10T20:10:17 1 31 ms: грунтовая\_дорога20171119233312346  
2018-11-10T20:10:17 1 21 ms: oro\_medium20181002193915573  
2018-11-10T20:10:17 1 6 ms: проселочная\_дорога20171119233424380  
2018-11-10T20:10:17 1 5 ms: peak2018100220913637, river\_medium20181002193203721, river\_dryout20181002195515384  
2018-11-10T20:10:17 1 4 ms: караванная\_тропа20171119233555041  
2018-11-10T20:10:17 1 3 ms: pass2018100220855793, oro\_large20181002193915572  
2018-11-10T20:10:17 1 2 ms: стоянки\_на\_подходах20171119232301092, .....

And so on.....

**#20 - 2018-11-10 08:06 PM - Nyall Dawson**

Did you try debugview? If it's setup correctly you will definitely see some qgis output there.

**#21 - 2019-02-23 08:37 PM - Jürgen Fischer**

- *Status changed from Feedback to Closed*

- *Resolution set to no timely feedback*

Bulk closing 82 tickets in feedback state for more than 90 days affecting an old version. Feel free to reopen if it still applies to a current version and you have more information that clarify the issue.