

QGIS Application - Bug report #17239

Reported map scale representative fraction is incorrect

2017-10-03 09:57 PM - Nathaniel V. Kelso

Status:	Closed	
Priority:	High	
Assignee:		
Category:	Map Canvas	
Affected QGIS version:	2.18.2	Regression?: No
Operating System:	macOS 10.10.5 (14F27)	Easy fix?: No
Pull Request or Patch supplied:	No	Resolution: no timely feedback
Crashes QGIS or corrupts data:	No	Copied to github as #: 25137
Description		
<p>I first noticed this when trying to match up screenshots taken off of Google Maps, OpenStreetMap, and Mapzen with screenshots out of my QGIS project.</p> <p>When referencing http://kelsocartography.com/blog/?p=2407 I can see web map zoom 5 is 1:18,489,297 map scale.</p> <p>When I type that scale into the QGIS document I instead get something that is NOT at that zoom. It should be exactly zoom 5 and 1:18,489,297 map scale.</p> <p>I can always fix this by scaling the QGIS screenshot up by 133%. That fraction reminded me of 96/72. I remember way back in Windows 95 days that OS used a pixels per inch (ppi) of 96 while most everyone else uses 72 ppi.</p> <p>But when I set my scale to 1:13,901,727 instead for zoom 5 (applying the 133% ratio) then they match up correctly!</p> <p>Tom Chadwin @tomchadwin looked into this on Gitter and suggests that 96DPI is being suggested as a default in a bunch of places, but didn't know enough to investigate further:</p> <p>https://github.com/qgis/QGIS/search?utf8=%E2%9C%93&#38;q=96+dpi&#38;type=</p> <p>I suspect there may be other HiDPI issues at play here (as Anita Graser @anitagraser points to): #11103</p> <p>But since the map scale is fundamentally broken and a critical part of "truth" in mapping, this seems like an important piece to track separately.</p> <p>For instance, I already enable the QGIS app to run into HiDPI already by toggling the Finder bit to force it to run in HiDPI and it works fine. It's not a 72 ppi versus 144 ppi issue, it's the bad math with 96 ppi.</p> <p>Please let me know if I can add additional details :) I use QGIS daily and it's a pleasure to use, keep up the good work!</p>		

History

#1 - 2017-10-03 10:02 PM - Nathaniel V. Kelso

- File zoom-scale-qgis.png added

#2 - 2017-10-10 08:46 AM - Jürgen Fischer

- Description updated

#3 - 2019-01-21 12:34 AM - Jürgen Fischer

- Status changed from Open to Feedback

Please test with QGIS 3.4 - QGIS 2.18 reached it's end of life.

#4 - 2019-02-24 10:05 AM - Giovanni Manghi

- *Resolution set to no timely feedback*
- *Status changed from Feedback to Closed*

Files

zoom-scale-qgis.png	540 KB	2017-10-03	Nathaniel V. Kelso
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