QGIS Application - Bug report #20810
QGIS Server 3 - drawing order of grouped layer

2018-12-14 07:22 AM - Burghardt Scholle

Status:	Closed		
Priority:	High		
Assignee:	Alessandro Pasotti		
Category:	QGIS Server		
Affected QGIS version:	3.4.2	**Regression?:**	Yes
Operating System:	Xubuntu 18.04, Windows 7 64bit	**Easy fix?:**	No
Pull Request or Patch supplied:	No	**Resolution:**	fixed/implemented
Crashes QGIS or corrupts data:	No	**Copied to github as #:**	28629

Description

I noticed problems with the drawing order of grouped layers on QGIS Server 3. If I load a WMS service consisting of several (grouped) layers completely into a desktop GIS, everything is fine. However, if I load several single layers from this WMS service, area and line layers of a grouped layer are drawn first and "painted over" by other layers (e.g. raster data, see attached screenshots). That's not the expected behavior and with QGIS Server 2 this problem doesn't exist.

I add a QGIS project file and a geopackage with sample data (see attached zip-file qs3.zip).

Associated revisions

Revision 1ba6b97f - 2019-01-07 01:13 PM - Alessandro Pasotti

[server] Fix layer order rendering when layers are in groups (#8796)

- [server] Fix layer order rendering when layers are in groups

Fixes #20810

- Update test images

- [server] Fix order of layers in subgroups

basically: layers in WMS is specified in a comma separated
list where leftmost layer is drawn first (it's at the bottom)
and QGIS layer order is exactly the opposite: first layer
in the TOP (topmost) is drawn last (it is at the top).

For this reason the server reverses the list before passing
it to the renderer.

- Fix order of layers in test

- Update src/server/services/wms/qgswmsrenderer.cpp

History

#1 - 2019-01-04 10:36 AM - Alessandro Pasotti

- Priority changed from Normal to High

- Regression? changed from No to Yes

#2 - 2019-01-04 11:13 AM - Alessandro Pasotti

- Assignee set to Alessandro Pasotti

#3 - 2019-01-04 11:24 AM - Alessandro Pasotti

- Status changed from Open to Feedback

I don't see any issue with drawing order with current QGIS master, can you please add the exact WMS calls that are causing the problem?

For example:

/?MAP=/Maps/bug_20810/qs3/qserver_GroupedLayer.qgs&SERVICE=WMS&VERSION=1.3.0&REQUEST=GetMap&BBOX=616348.11891968
29218,5810956.442350113764,617354.0284219451714,5812345.854850113392&CRS=EPSG:25832&WIDTH=640&HEIGHT=884&LAYERS=as_areas,Op
as_areas,OpenStreetMap%20(grayscales)&STYLES=default,default&FORMAT=image/jpeg&DPI=192&MAP_RESOLUTION=192&FORMAT_OPTIONS=dpi
PTIONS=dpi:192

#4 - 2019-01-04 12:14 PM - Burghardt Scholle

- File QS3_Layers_2.png added
- File QS3_Layers_1.png added

Hi Alessandro,
thank you so much for taking care of this problem.

I have done tests with the current QGIS Master (for me: code revision d59a346560). The problem still persists. Unfortunately, I can't serve on the fast with an accurate WMS call :-(. Alternatively, I have made two screenshots of possible settings when adding layers using the "Data Source Manager" in QGIS Desktop. I hope that's sufficient.

#5 - 2019-01-05 09:57 PM - Alessandro Pasotti

- Status changed from Feedback to In Progress

I've found the issue, working on a fix...

#6 - 2019-01-07 01:12 PM - Alessandro Pasotti

- Status changed from In Progress to Closed
- % Done changed from 0 to 100

Applied in changeset commit:qgis|1ba6b97f74775e9660f0592a517d03ed98aaf504.

#7 - 2019-01-08 07:47 AM - Burghardt Scholle

Thank you for taking care of the problem and solving it. As soon as I have a newer qgis dev version, I will test it again and report afterwards. Currently I only have the QGIS code version 48db864, which does not contain your changes yet.

#8 - 2019-01-09 07:53 AM - Burghardt Scholle

Good work: I did tests with QGIS master 13ac907 today and can confirm the fix. Thanks a lot!

#9 - 2019-01-09 09:41 AM - Giovanni Manghi

- Resolution set to fixed/implemented

Files

qs3.zip	45.6 KB	2018-12-14	Burghardt Scholle
QS3_actual.png	163 KB	2018-12-14	Burghardt Scholle
QS3_expected.png	197 KB	2018-12-14	Burghardt Scholle
QS3_Layers_1.png	10.8 KB	2019-01-04	Burghardt Scholle
QS3_Layers_2.png	10.5 KB	2019-01-04	Burghardt Scholle