

## QGIS Application - Bug report #19121

### QGIS crash when styling (with geometry generator)

2018-06-06 08:42 AM - Klas Karlsson

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |                                     |
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| <b>Status:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Closed       |                                     |
| <b>Priority:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Normal       |                                     |
| <b>Assignee:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |                                     |
| <b>Category:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Symbology    |                                     |
| <b>Affected QGIS version:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.0.3        | <b>Regression?:</b> No              |
| <b>Operating System:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Ubuntu 18.04 | <b>Easy fix?:</b> No                |
| <b>Pull Request or Patch applied:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No           | <b>Resolution:</b>                  |
| <b>Crashes QGIS or corrupts data:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Yes          | <b>Copied to github as #:</b> 26951 |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                                     |
| <p>This feels a bit random and not with all layers.</p> <p>When I try to build a complex style for a polygon layer including geometry generator and data defined overrides, QGIS tend to crash when applied to certain data.</p> <p>It's not perfectly regular crashes, and it seems to depend on the layer. Sometimes QGIS freeze first, and sometimes it crashes immediately.</p> <p>I've used, and crashed QGIS with Natural Earth 10M (<a href="https://www.naturalearthdata.com/http://www.naturalearthdata.com/download/10m/cultural/ne_10m_admin_0_countries.zip">https://www.naturalearthdata.com/http://www.naturalearthdata.com/download/10m/cultural/ne_10m_admin_0_countries.zip</a>)</p> <p>Symbol with two or more symbol layers.</p> <p>top: Marker line, random size simple marker</p> <p>middle: Geometry generator [buffer(\$geometry,-50)]</p> <p>bottom: Simple fill</p> <p>TRACE:</p> <p>QGIS died on signal 11[New LWP 16295]</p> <p>[New LWP 16296]</p> <p>[New LWP 16297]</p> <p>[New LWP 16298]</p> <p>[New LWP 16299]</p> <p>[New LWP 16300]</p> <p>[New LWP 16301]</p> <p>[New LWP 16302]</p> <p>[New LWP 16303]</p> <p>[New LWP 16304]</p> <p>[New LWP 16307]</p> <p>[New LWP 16308]</p> <p>[New LWP 16310]</p> <p>[New LWP 16402]</p> <p>[New LWP 16403]</p> <p>[New LWP 16404]</p> <p>[New LWP 16405]</p> <p>[New LWP 16406]</p> <p>[New LWP 16407]</p> <p>[New LWP 16408]</p> <p>[New LWP 16409]</p> <p>[Thread debugging using libthread_db enabled]</p> <p>Using host libthread_db library "/lib/x86_64-linux-gnu/libthread_db.so.1".</p> |              |                                     |

```
0x00007f130ce86bf9 in G/_poll (fds=0x558a363be060, nfds=7, timeout=42) at ../sysdeps/unix/sysv/linux/poll.c:29
29 ../sysdeps/unix/sysv/linux/poll.c: Filen eller katalogen finns inte.
[Current thread is 1 (Thread 0x7f131092e380 (LWP 16292))]
```

```
#0 0x00007f130ce86bf9 in G/_poll (fds=0x558a363be060, nfds=7, timeout=42) at ../sysdeps/unix/sysv/linux/poll.c:29
    resultvar = 18446744073709551100
    sc_cancel_oldtype = 0
#1 0x00007f1301994439 in () at /usr/lib/x86_64-linux-gnu/libglib-2.0.so.0
#2 0x00007f130199454c in g_main_context_iteration () at /usr/lib/x86_64-linux-gnu/libglib-2.0.so.0
#3 0x00007f130d9ec8ef in QEventDispatcherGlib::processEvents(QFlags<QEventLoop::ProcessEventsFlag>) () at
/usr/lib/x86_64-linux-gnu/libQt5Core.so.5
#4 0x00007f130d9919ea in QEventLoop::exec(QFlags<QEventLoop::ProcessEventsFlag>) () at
/usr/lib/x86_64-linux-gnu/libQt5Core.so.5
#5 0x00007f130d99aa84 in QCoreApplication::exec() () at /usr/lib/x86_64-linux-gnu/libQt5Core.so.5
#6 0x0000558a2e95d87f in ()
#7 0x00007f130cd93b97 in __libc_start_main (main=0x558a2e95b5e0, argc=1, argv=0x7fff0e5519a8, init=<optimized out>,
fini=<optimized out>, rtld_fini=<optimized out>, stack_end=0x7fff0e551998) at ../csu/libc-start.c:310
    result = <optimized out>
    unwind_buf = {cancel_jmp_buf = {{jmp_buf = {0, -3788220921177897796, 94051975432496, 140733433846176, 0, 0,
-6951366894201011012, -7034677885717510980}, mask_was_saved = 0}}, priv = {pad = {0x0, 0x0, 0x7f13107a3733 <_dl_init+259>,
0x7f1310766278}, data = {prev = 0x0, cleanup = 0x0, canceltype = 276444979}}}
```

```
    not_first_call = <optimized out>
#8 0x0000558a2e96095a in _start ()
gdb returned 0
Avbruten (SIGABRT)
```

## Associated revisions

### Revision 5c855b41 - 2018-07-06 03:57 AM - Matthias Kuhn

fix crasher when rendering a symbol layer subsequent to

rendering a geometry generator layer

Fixes #19121 <https://issues.qgis.org/issues/19121>

### Revision ff6fd802 - 2018-07-10 03:15 AM - Matthias Kuhn

fix crasher when rendering a symbol layer subsequent to

rendering a geometry generator layer

Fixes #19121 <https://issues.qgis.org/issues/19121>

(cherry-picked from 5c855b417)

## History

### #1 - 2018-06-10 10:23 AM - Matthias Kuhn

Can you provide a complete project?

## #2 - 2018-06-10 12:46 PM - Klas Karlsson

- File *crash\_test.zip* added

I tried to simplify a project as much as I could that generates a crash reliably on my computers:

When I apply the style from the "source\_style" layer to the "crash\_layer", QGIS will crash! Maybe not directly, but it will crash.

Zip file includes project and two layers in shape format. One has a style file attached.

The issue is probably layer dependent, since I have been able to create a simple shape file to apply the style to without QGIS crashing. But QGIS shouldn't crash regardless.

## #3 - 2018-06-10 12:52 PM - Klas Karlsson

Also, just noted that QGIS don't crash until the "crash\_layer" is visible in the canvas window. So if I apply the style when the layer is not in view it works fine, but as soon as I pan the layer into view, it crashes.

Same issue when the crash\_layer is turned off. Apply style works fine, but as soon as layer is turned on, crash!

## #4 - 2018-07-01 09:20 AM - Klas Karlsson

More testing seems to indicate that the order of symbol layers matter.

In the "crash\_test.zip" I change the order of the style layers of the "source\_style" layer placing the Marker line in the middle. Then applying the style to the "crash\_layer". This works fine, but when I change the order back so that the Marker line is on top, QGIS crash.

<https://youtu.be/BYZVkpQCuAM>

(note that I've saved the project I use in the video with the rearranged style layer order so I don't have to apply the style in the video.

## #5 - 2018-07-01 09:21 AM - Klas Karlsson

Oh, and the debug output:

(more or less same as before)

QGIS died on signal 11[New LWP 10352]

[New LWP 10353]

[New LWP 10354]

[New LWP 10356]

[New LWP 10357]

[New LWP 10360]

[New LWP 10361]

[New LWP 10362]

[New LWP 10363]

[New LWP 10364]

[New LWP 10365]

[New LWP 10366]

[New LWP 10369]

```
[New LWP 10370]
[New LWP 10372]
[New LWP 10435]
[New LWP 10440]
[New LWP 10441]
[New LWP 10442]
[New LWP 10443]
[New LWP 10444]
[New LWP 10445]
[New LWP 10446]
[Thread debugging using libthread_db enabled]
Using host libthread_db library "/lib/x86_64-linux-gnu/libthread_db.so.1".
0x00007fc67fd5abf9 in G/_poll (fds=0x560e47ba1800, nfds=9, timeout=50) at ../sysdeps/unix/sysv/linux/poll.c:29
29  ../sysdeps/unix/sysv/linux/poll.c: Filen eller katalogen finns inte.
[Current thread is 1 (Thread 0x7fc6838d2380 (LWP 10349))]
#0 0x00007fc67fd5abf9 in G/_poll (fds=0x560e47ba1800, nfds=9, timeout=50) at ../sysdeps/unix/sysv/linux/poll.c:29
    resultvar = 18446744073709551100
    sc_cancel_oldtype = 0
#1 0x00007fc6747cf439 in () at /usr/lib/x86_64-linux-gnu/libglib-2.0.so.0
#2 0x00007fc6747cf54c in g_main_context_iteration () at /usr/lib/x86_64-linux-gnu/libglib-2.0.so.0
#3 0x00007fc6808c08ef in QEventDispatcherGlib::processEvents(QFlags<QEventLoop::ProcessEventsFlag>) () at
/usr/lib/x86_64-linux-gnu/libQt5Core.so.5
#4 0x00007fc6808659ea in QEventLoop::exec(QFlags<QEventLoop::ProcessEventsFlag>) () at /usr/lib/x86_64-linux-gnu/libQt5Core.so.5
#5 0x00007fc68086ea84 in QCoreApplication::exec() () at /usr/lib/x86_64-linux-gnu/libQt5Core.so.5
#6 0x0000560e45a5d8a6 in ()
#7 0x00007fc67fc67b97 in __libc_start_main (main=0x560e45a5b5a0, argc=1, argv=0x7fffc38288e8, init=<optimized out>, fini=<optimized out>,
rtld_fini=<optimized out>, stack_end=0x7fffc38288d8) at ../csu/libc-start.c:310
    result = <optimized out>
    unwind_buf = {cancel_jmp_buf = {{jmp_buf = {0, -3686072246135374524, 94619298040256, 140736473499872, 0, 0, -6972842595541271228,
-6969315941478646460}, mask_was_saved = 0}}, priv = {pad = {0x0, 0x0, 0x7fc683747733 <_dl_init+259>, 0x7fc683709638}, data = {prev = 0x0,
cleanup = 0x0, canceltype = -2089519309}}}}
    not_first_call = <optimized out>
#8 0x0000560e45a609ea in _start ()
gdb returned 0
Avbruten (SIGABRT) (minnesutskrift skapad)
```

#6 - 2018-07-01 11:58 AM - Klas Karlsson

Just tested on **Windows 10** as well.

- 1. Add "crash\_layer" from zip
- 2. create two style layers (marker line under, geometry generator over)
- 3. Change order of style layers

Crash:

User Feedback

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Report Details

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Crash ID: 466e81800de05ae171640aa065b399f5675d79c8

Stack Trace

QgsMarkerLineSymbolLayer::renderPolygonStroke :  
QgsFillSymbol::renderPolygonUsingLayer :  
QgsFillSymbol::renderPolygon :  
QgsSymbol::renderFeature :  
QgsFeatureRenderer::renderFeature :  
QgsVectorLayerLabelProvider::registerFeature :  
QgsVectorLayerLabelProvider::registerFeature :  
QgsMapRendererParallelJob::renderLayerStatic :  
QgsArchive::zip :  
QgsImageOperation::overlayColor :  
QgsImageOperation::flipImage :  
QtConcurrent::ThreadEngineBase::run :  
QThreadPoolPrivate::reset :  
QThread::start :  
BaseThreadInitThunk :  
RtlUserThreadStart :

**QGIS Info**

QGIS Version: 3.2.0-Bonn  
QGIS code revision: commit:bc43194061  
Compiled against Qt: 5.9.2  
Running against Qt: 5.9.2  
Compiled against GDAL: 2.2.4  
Running against GDAL: 2.2.4

**System Info**

CPU Type: x86\_64  
Kernel Type: winnt  
Kernel Version: 10.0.16299

**#7 - 2018-07-06 03:57 AM - Anonymous**

- % Done changed from 0 to 100
- Status changed from Open to Closed

Applied in changeset commit:qgis|5c855b417f62a686080738db69053a7dcb159ceb.

**Files**

|                |        |            |               |
|----------------|--------|------------|---------------|
| crash_test.zip | 820 KB | 2018-06-10 | Klas Karlsson |
|----------------|--------|------------|---------------|