

QGIS Application - Bug report #17365

regression: QGIS crash while handling geometry in provided dataset

2017-10-31 06:31 AM - Mathieu Pellerin - nIRV

Status: Closed	
Priority: High	
Assignee: Nyal Dawson	
Category: Geometry	
Affected QGIS version: master	Regression?: Yes
Operating System: Ubuntu 16.04 LTS	Easy fix?: No
Pull Request or Patch supplied: No	Resolution:
Crashes QGIS or corrupts data: Yes	Copied to github as #: 25262

Description

QGIS simply dies when trying to open the attached geojson dataset.

Steps to reproduce

1. Create a new project, and add the "counties" layer from the attached us.json dataset
2. **boom** QGIS dies

GDB where output

```
0x00007ffff66e5c92 in QgsCurve::asQPolygonF (this=0x0) at
/home/webmaster/dev/cpp/QGIS/src/core/geometry/qgscurve.cpp:181
181   const int nb = numPoints();
(gdb) where
#0 0x00007ffff66e5c92 in QgsCurve::asQPolygonF() const (this=0x0) at
/home/webmaster/dev/cpp/QGIS/src/core/geometry/qgscurve.cpp:181
#1 0x00007ffff5f89c2e in QgsSymbol::_getPolygonRing(QgsRenderContext&, QgsCurve const&, bool) (context=..., curve=...,
clipToExtent=true)
at /home/webmaster/dev/cpp/QGIS/src/core/symbology/qgssymbol.cpp:148
#2 0x00007ffff5f89e8f in QgsSymbol::_getPolygon(QPolygonF&, QList<QPolygonF>&, QgsRenderContext&, QgsPolygon
const&, bool) (pts=..., holes=..., context=...,
polygon=..., clipToExtent=true) at /home/webmaster/dev/cpp/QGIS/src/core/symbology/qgssymbol.cpp:179
#3 0x00007ffff5f8eeac in QgsSymbol::renderFeature(QgsFeature const&, QgsRenderContext&, int, bool, bool, int, int)
(this=0x555559831470,
feature=..., context=..., layer=-1, selected=false, drawVertexMarker=false, currentVertexMarkerType=1,
currentVertexMarkerSize=3)
at /home/webmaster/dev/cpp/QGIS/src/core/symbology/qgssymbol.cpp:917
#4 0x00007ffff5f21ea4 in QgsFeatureRenderer::renderFeatureWithSymbol(QgsFeature&, QgsSymbol*, QgsRenderContext&,
int, bool, bool) (this=0x5555589e02c0, feature=..., symbol=0x555559831470, context=..., layer=-1, selected=false,
drawVertexMarker=false) at /home/webmaster/dev/cpp/QGIS/src/core/symbology/qgsrenderer.cpp:109
#5 0x00007ffff5f21e3a in QgsFeatureRenderer::renderFeature(QgsFeature&, QgsRenderContext&, int, bool, bool)
(this=0x5555589e02c0, feature=..., context=..., layer=-1, selected=false, drawVertexMarker=false) at
/home/webmaster/dev/cpp/QGIS/src/core/symbology/qgsrenderer.cpp:103
#6 0x00007ffff64c1b66 in QgsVectorLayerRenderer::drawRenderer(QgsFeatureIterator&) (this=0x55555b6b7800, fit=...)
at /home/webmaster/dev/cpp/QGIS/src/core/qgsvectorlayerrenderer.cpp:283
#7 0x00007ffff64c1478 in QgsVectorLayerRenderer::render() (this=0x55555b6b7800) at
/home/webmaster/dev/cpp/QGIS/src/core/qgsvectorlayerrenderer.cpp:247
#8 0x00007ffff62c2af1 in QgsMapRendererParallelJob::renderLayerStatic(LayerRenderJob&) (job=...)
at /home/webmaster/dev/cpp/QGIS/src/core/qgsmaprenderparalleljob.cpp:256
#9 0x00007ffff62c426c in QtConcurrent::FunctionWrapper1<void, LayerRenderJob&>::operator()(LayerRenderJob&)
(this=0x55555b21fe88, u=...)
at /usr/include/x86_64-linux-gnu/qt5/QtConcurrent/qtconcurrentfunctionwrappers.h:83
```

```
#10 0x00007ffff62c3fa5 in QtConcurrent::MapKernel<QList<LayerRenderJob>::iterator, QtConcurrent::FunctionWrapper1<void, LayerRenderJob&> >::runIteration(QList<LayerRenderJob>::iterator, int, void*) (this=0x55555b21fe50, it=...) at /usr/include/x86_64-linux-gnu/qt5/QtConcurrent/qtconcurrentmapkernel.h:69
#11 0x00007ffff62c4044 in QtConcurrent::MapKernel<QList<LayerRenderJob>::iterator, QtConcurrent::FunctionWrapper1<void, LayerRenderJob&> >::runIterations(QList<LayerRenderJob>::iterator, int, int, void*) (this=0x55555b21fe50, sequenceBeginIterator=..., beginIndex=0, endIndex=1)
    at /usr/include/x86_64-linux-gnu/qt5/QtConcurrent/qtconcurrentmapkernel.h:78
#12 0x00007ffff62c4514 in QtConcurrent::IterateKernel<QList<LayerRenderJob>::iterator, void>::forThreadFunction() (this=0x55555b21fe50)
    at /usr/include/x86_64-linux-gnu/qt5/QtConcurrent/qtconcurrentiteratekernel.h:256
#13 0x00007ffff62c41d6 in QtConcurrent::IterateKernel<QList<LayerRenderJob>::iterator, void>::threadFunction() (this=0x55555b21fe50)
    at /usr/include/x86_64-linux-gnu/qt5/QtConcurrent/qtconcurrentiteratekernel.h:218
#14 0x00007ffff6bd31bfd in QtConcurrent::ThreadEngineBase::run() () at /usr/lib/x86_64-linux-gnu/libQt5Concurrent.so.5
#15 0x00007ffff44c0581 in () at /usr/lib/x86_64-linux-gnu/libQt5Core.so.5
#16 0x00007ffff44c429d in () at /usr/lib/x86_64-linux-gnu/libQt5Core.so.5
#17 0x00007ffffeac8c7fc in start_thread (arg=0x7fff3164f700) at pthread_create.c:465
```

Associated revisions

Revision eea155d6 - 2017-11-01 11:48 AM - Nyal Dawson

Fix crash when attempting to render multipolygon with missing exterior ring

This commit fixes a possible crash when the vector layer renderer attempts to render a multipolygon containing a polygon without an exterior ring.

The underlying cause of the creation of this invalid geometry is deeper, but this commit hardens the renderer and makes it more robust for handling bad geometries.

Fixes #17365

Revision f4d3152e - 2017-11-01 11:48 AM - Nyal Dawson

[ogr] Also discard features with empty geometries when feature request specifies a filter rect

OGR sometimes returns a feature with empty geometry (e.g. a multipolygon with a polygon child with no rings) even when OGR_L_SetSpatialFilterRect has been set for the layer.

Refs #17365

History

#1 - 2017-10-31 06:45 AM - Mathieu Pellerin - nIRV

This patch fixes the crasher, however I do not know if it's the right way to handle this:

<https://github.com/nirvn/QGIS/commit/97a58ba2594fdb1f32fe5aef16eec458d0bdf6c>

#2 - 2017-10-31 07:38 AM - Mathieu Pellerin - nIRV

I get a crash under linux (ubuntu 17.10) running gdal 2.2.1, as well as under windows (osgeo4w QGIS dev) running gdal 2.2.2.

#3 - 2017-10-31 11:48 PM - Nyal Dawson

- Assignee set to Nyal Dawson

#4 - 2017-10-31 11:48 PM - Nyal Dawson

PR at <https://github.com/qgis/QGIS/pull/5501>

#5 - 2017-11-01 11:48 AM - Nyal Dawson

- % Done changed from 0 to 100

- Status changed from Open to Closed

Applied in changeset commit:qgis|eea155d6e28bbe3d66dd32e972d7c0472bbf3af4.

Files

us.json	641 KB	2017-10-31	Mathieu Pellerin - nIRV
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