

QGIS Application - Bug report #20661

QgsPoint.clone() not fully reliable? It's original QgsFeature may get corrupted?

2018-11-28 03:49 PM - Juan Manuel Perez

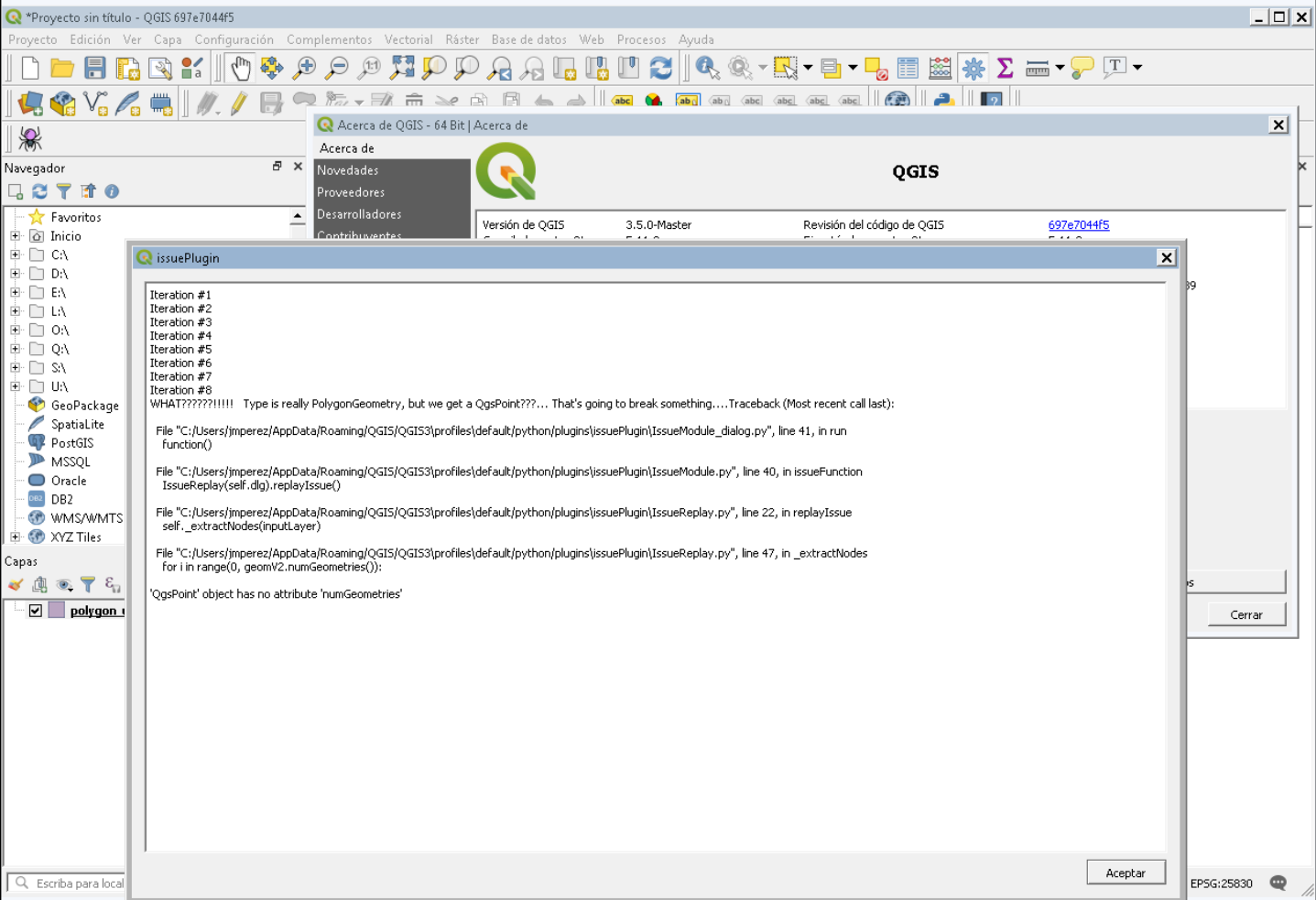
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|--|-------------------------------------|
| Status: Closed | |
| Priority: Normal | |
| Assignee: | |
| Category: Python bindings / sipify | |
| Affected QGIS version: 3.5(master) | Regression?: Yes |
| Operating System: Windows 7 64 bits | Easy fix?: No |
| Pull Request or Patch supplied: No | Resolution: up/downstream |
| Crashes QGIS or corrupts data: No | Copied to github as #: 28481 |

Description

We have stumbled upon an strange problem and reproducible problem. We attach a plugin to reproduce it.

The problem arises in this circumstances:

- We have a layer. We iterate over all its features, then over all their geometries, then all of their nodes (QgsPoints). To reproduce the problem, we use a layer with only a single polygon.
- For each node, we create a new QgsFeature (in memory), and we assign it a new geometry initialized with a clone of the node (QgsPoint)
- The original layer is not modified in any way, nor its features.
- We then repeat the above steps. We may repeat it successfully but only for a limited and variable number of iterations.
- Eventually, the process will break with an unexpected exception.



- More precisely, the exception raises because eventually we get a PolygonGeometry QgsGeometry (as expected), but its actual

Simplified code to reproduce the issue:

```
import sip
for i in range(50):
    geom = QgsGeometry.fromWkt("MULTIPOLYGON(((1 1, 1 2, 2 2, 2 1, 1 1)))")
    geomV2 = geom.constGet()
    if isinstance(geomV2, QgsPoint):
        print("WHAT?????!!!!!! " + hex(sip.unwrapinstance(geomV2)))

    pt = QgsGeometry.fromWkt("POINT( 3 4)")
    pt_g = pt.constGet()
    pt_clone = pt_g.clone()
    pt_x = QgsGeometry(pt_clone)
    print("new pt " + hex(sip.unwrapinstance(pt_clone)))
print("-----")
```

#3 - 2019-02-05 10:39 PM - Matthias Kuhn

- Resolution set to up/downstream
- Status changed from Open to Closed

Issue fixed upstream with upcoming sip version 4.19.14.

Files

| | | | |
|--------------------------|---------|------------|-------------------|
| iteration_screenshot.png | 82.5 KB | 2018-11-28 | Juan Manuel Perez |
| debugging_screenshot.png | 116 KB | 2018-11-28 | Juan Manuel Perez |
| issuePlugin.zip | 487 KB | 2018-11-28 | Juan Manuel Perez |