

## QGIS Application - Bug report #21603

### Crash when using QgsGeometry.delaunayTriangulation()

2019-03-17 07:14 PM - Antoine Lafranchis

<b>Status:</b>	Closed	
<b>Priority:</b>	High	
<b>Assignee:</b>		
<b>Category:</b>	Python bindings / sipify	
<b>Affected QGIS version:</b>	3.7(master)	<b>Regression?:</b> No
<b>Operating System:</b>	Windows 10	<b>Easy fix?:</b> No
<b>Pull Request or Patch applied:</b>	No	<b>Resolution:</b> invalid
<b>Crashes QGIS or corrupts data:</b>	Yes	<b>Copied to github as #:</b> 29419
<b>Description</b>		
<p>Qgis crashes (with windows message "qgis-dev-bin-g7.exe has stopped working") after using QgsGeometry.delaunayTriangulation() in python script.</p> <p>It reproduces when executing the attached processing script with the attached point layer.</p> <p>Running the following code in python console can also trigger the crash, but it's sometimes necessary to run it twice:</p> <pre>pointLayer = iface.activeLayer() multiPoint = QgsMultiPoint() for pointFeature in pointLayer.getFeatures():     multiPoint.addGeometry(pointFeature.geometry().vertexAt(0))  multiPointGeometry = QgsGeometry(multiPoint) triangulation = multiPointGeometry.delaunayTriangulation(1e-3) multiTriangle = triangulation.get() for i in range(multiTriangle.numGeometries()):     triangle = multiTriangle.geometryN(i)     triangleGeometry = QgsGeometry(triangle)</pre>		

#### History

##### #1 - 2019-03-17 09:04 PM - Nyal Dawson

- Resolution set to invalid

- Status changed from Open to Closed

```
triangleGeometry = QgsGeometry(triangle)
```

Should be

```
triangleGeometry = QgsGeometry(triangle.clone())
```

You are "stealing" ownership of an already owned object, which leads to a crash

##### #2 - 2019-03-17 10:23 PM - Antoine Lafranchis

Thanks, it works fine now!

Isn't it possible to throw exceptions instead of crashing in cases of ownership theft?

#3 - 2019-03-18 10:14 AM - Nyal Dawson

I think it should be, but generating these bindings is very complex and sometimes fragile, so I'm not 100% confident. I'll give it a shot sometime.

Files			
test_points.dbf	110 Bytes	2019-03-17	Antoine Lafranchis
test_points.cpg	5 Bytes	2019-03-17	Antoine Lafranchis
test_points.prj	431 Bytes	2019-03-17	Antoine Lafranchis
test_points.qpj	682 Bytes	2019-03-17	Antoine Lafranchis
test_points.shp	212 Bytes	2019-03-17	Antoine Lafranchis
test_points.shx	132 Bytes	2019-03-17	Antoine Lafranchis
TestTriangulation.py	1.88 KB	2019-03-17	Antoine Lafranchis