

QGIS Application - Bug report #21603

Crash when using QgsGeometry.delaunayTriangulation()

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

Status:	Closed	
Priority:	High	
Assignee:		
Category:	Python bindings / sipify	
Affected QGIS version:	3.7(master)	Regression?: No
Operating System:	Windows 10	Easy fix?: No
Pull Request or Patch applied:	No	Resolution: invalid
Crashes QGIS or corrupts data:	Yes	Copied to github as #: 29419
Description		
<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