

QGIS Application - Bug report #20387

The call to matplotlib.tricontour causes QGIS to crash

2018-11-06 04:24 PM - Ondrej Lexa

Status:	Open	
Priority:	High	
Assignee:		
Category:	Python bindings / sipify	
Affected QGIS version:	3.4.1	Regression?: No
Operating System:	Ubuntu 18.04	Easy fix?: No
Pull Request or Patch Supplied:		Resolution:
Crashes QGIS or corrupts data:		Copied to github as #: 28207

Description

Developing plugin, I found that QGIS 3.4 crashes during calculation of matplotlib.tri.Triangulation. The problem appears only running matplotlib.tri.Triangulation within the QGIS3 python environment. The problem has been reported already in QGIS 3.1 (<https://github.com/ccrook/QGIS-Contour-Plugin/issues/23>) and the workaround is to calculate Triangulation in shell script, save the result to file and import back to QGIS python session. I'm using QGIS version 3.4.1-Madeira QGIS code revision 383851c, Python 3.6.6, matplotlib 2.1.1 on Ubuntu 18.04.

Example python code to crash QGIS

```
import matplotlib.pyplot as plt
import matplotlib.tri as tri
import numpy as np

radii = np.linspace(0.25, 0.95, 8)
angles = np.linspace(0, 2*np.pi, 36, endpoint=False)
angles = np.repeat(angles[...], np.newaxis, 8, axis=1)
angles[:, 1::2] += pi/n_angles

x = (radii*np.cos(angles)).flatten()
y = (radii*np.sin(angles)).flatten()

# This call crashes QGIS
triang = tri.Triangulation(x, y)
```

History

#1 - 2018-11-07 12:09 PM - Giovanni Manghi

- Priority changed from Normal to High

- Category changed from Python plugins to Python bindings / sipify