

Points in Polygon Analysis

QGIS Tutorials and Tips



Author

Ujaval Gandhi

<http://google.com/+UjavalGandhi>

Translations by

SongHyun Choi

[illegible][illegible]

□ □ □ □

□□□□ □□□□ □□ □□ □□□□□□ □□□□□ □□□□□, □□ □□□ □□ □□ □□□ □□□ □□□□□ □□□□□ □□□□□.

□□ □□□ □□□ □□□□□ NOAA's National Geophysical Data Center □ ` Significant
 Earthquake Database
 <<http://www.ngdc.noaa.gov/nndc/struts/form?t=101650&s=1&d=1>> ` _□ □□□□.
 ` tab-delimited earthquake data <[http://www.ngdc.noaa.gov/nndc/struts/results?type=0=Exact&query_0=\\$ID&t=101650&s=13&d=189&dfn=signif.txt](http://www.ngdc.noaa.gov/nndc/struts/results?type=0=Exact&query_0=$ID&t=101650&s=13&d=189&dfn=signif.txt)> ` _□ □□□□ □□□.

Natural Earth Admin 0 – Countries 10m. countries <http://www.naturalearthdata.com/http://www.naturalearthdata.com/download/10m/cultural/ne_10m_admin_0_countries.zip>`_ 10m.

For convenience, you may directly download a copy of the dataset from the link below:

signif.txt

ne_10m_admin_0_countries.zip

□□ □□: [NGDC] [NATURALEARTH]

1. □□ □□ --> □□□□ □□ □□ □□ □□ :menuselection: `Layer --> Add Delimited
Text Layer` □ □□ □□□□□ `signif.txt` □□□ □□□□.



2. Open the 'Add Delimited Text Layer' dialog. In the 'File format' dropdown, select 'Tab'. In the 'X field' dropdown, select the field containing the X coordinates. In the 'Y field' dropdown, select the field containing the Y coordinates. Click 'OK'.

Note

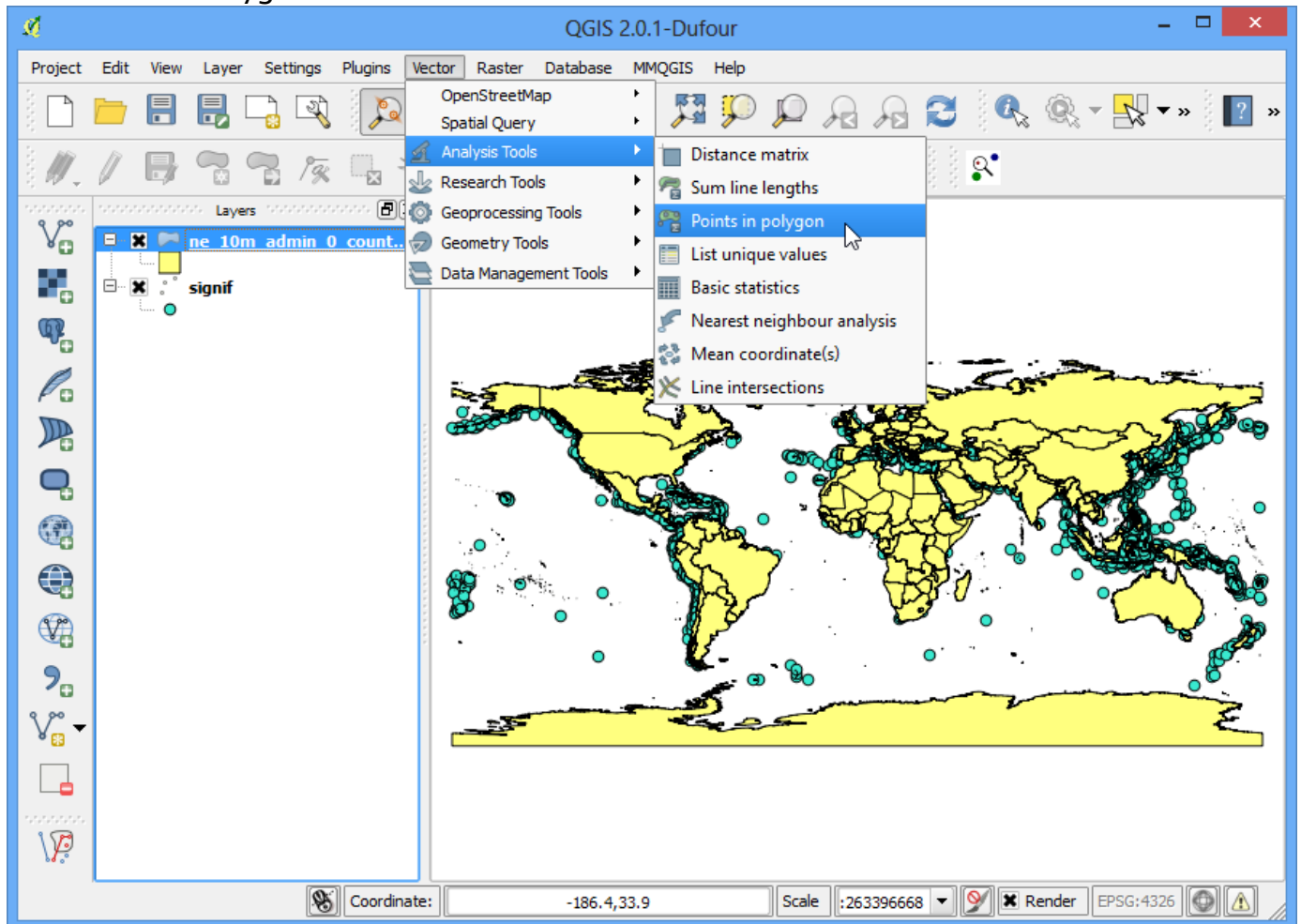
QGIS can also load delimited text files from a database. To do this, click on 'Add Database Layer...' in the 'Layer' menu. This will open the 'Add Database Layer' dialog. In the 'Database' dropdown, select the database you want to connect to. In the 'Table' dropdown, select the table you want to load. Click 'OK'.



4. The earthquake point layer would now be loaded and displayed in QGIS. Let's also open the Countries layer. Go to Layer > Add Vector Layer. Browse to the downloaded *ne_10m_admin_0_countries.zip* file and click Open. Select the *ne_10m_admin_0_countries.shp* as the layer in the Select layers to add... dialog.



5. `Vector --> Analysis Tools --> Points in Polygon` :menuselection: `Vector --> Analysis Tools --> Points in Polygon`.

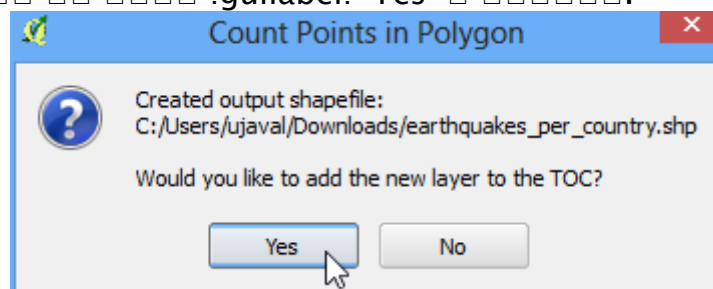


6. `earthquake_per_coutry.shp` :guilabel: `OK`.

Note

OK. QGIS 10.

7. `TOC` :guilabel: `Yes`.



8. `TOC` :guilabel: `Open Attribute Table`.



9. 〇〇 〇〇〇〇〇 ``PNTCNT`` 〇〇 〇〇〇 〇〇〇〇 〇〇〇〇 〇〇〇. 〇〇〇 〇 〇〇〇〇〇 〇〇〇
 〇〇〇〇〇〇〇 〇〇 〇〇〇 〇〇〇 〇〇〇〇.

Attribute table - earthquakes_per_country :: Features total: 255, filtered: 255, selected: 0

	REGION_WB	NAME_LEN	LONG_LEN	ABBREV_LEN	TINY	HOMEPART	PNTCNT
0	Latin America ...	5.00	5.00	5.00	4.00	-99.00	0.000000000000...
1	South Asia	11.00	11.00	4.00	-99.00	1.00	57.000000000000...
2	Sub-Saharan Af...	6.00	6.00	4.00	-99.00	1.00	0.000000000000...
3	Latin America ...	8.00	8.00	4.00	-99.00	-99.00	0.000000000000...
4	Europe & Centr...	7.00	7.00	4.00	-99.00	1.00	44.000000000000...
5	Europe & Centr...	5.00	13.00	5.00	5.00	-99.00	0.000000000000...
6	Europe & Centr...	7.00	7.00	4.00	5.00	1.00	0.000000000000...
7	Middle East & ...	20.00	20.00	6.00	-99.00	1.00	0.000000000000...
8	Latin America ...	9.00	9.00	4.00	-99.00	1.00	20.000000000000...
9	Europe & Centr...	7.00	7.00	4.00	-99.00	1.00	14.000000000000...
10	East Asia & Pac...	14.00	14.00	9.00	3.00	-99.00	0.000000000000...
11	Antarctica	10.00	10.00	4.00	-99.00	1.00	0.000000000000...
12	East Asia & Pac...	23.00	27.00	7.00	-99.00	-99.00	0.000000000000...
13	Sub-Saharan Af...	22.00	35.00	10.00	2.00	-99.00	0.000000000000...
14	Latin America ...	17.00	19.00	6.00	4.00	1.00	0.000000000000...
15	East Asia & Pac...	9.00	9.00	4.00	-99.00	1.00	9.000000000000...
16	Europe & Centr...	7.00	7.00	5.00	-99.00	1.00	4.000000000000...
17	Europe & Centr...	10.00	10.00	4.00	-99.00	1.00	15.000000000000...
18	Sub-Saharan Af...	7.00	7.00	4.00	-99.00	1.00	1.000000000000...
19	Europe & Centr...	7.00	7.00	5.00	-99.00	1.00	2.000000000000...
20	Sub-Saharan Af...	5.00	5.00	5.00	-99.00	1.00	1.000000000000...
21	Sub-Saharan Af...	12.00	12.00	4.00	-99.00	1.00	0.000000000000...

Show All Features

10. 00 00 00 ``PNTCNT`` 000 0000 00 00 00 000 00 0000. 0000000 0000 00
 ``PNTCNT`` 00 20 000000. 000 00000 000 0000 00 00000 00 00000 00000.



2000 年 1 月 1 日 至 2000 年 12 月 31 日 的 地震 数据。 数据 来源 为 美国 地质 调查 局 (USGS) 的 全球 地震 目录 (Global Earthquake Catalogue)。