

Points in Polygon Analysis

QGIS Tutorials and Tips



Author

Ujaval Gandhi

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

Translations by

SongHyun Choi

□□□□□□ □ □□

GIS□ □□ □□ □□□ □□□ □□ □□□□ □□□□. □□ □□□□ □□ □□□ □□ □□□□ □□ □□ □□□□ □□□□ □□ □□□ □ □□□ □□□□. □□□ □□□ □□□ ****Points-in-Polygon****□□□□. □□□ □□□□ □□□ □□□□ □□□ □□□ □□□ □□ □□ □□ □□□ □ □□□□ □□□□ □□□□ □□□ □□ □□□□□ □□□ □ □□□□.

□□ □□

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

□□□□ □□

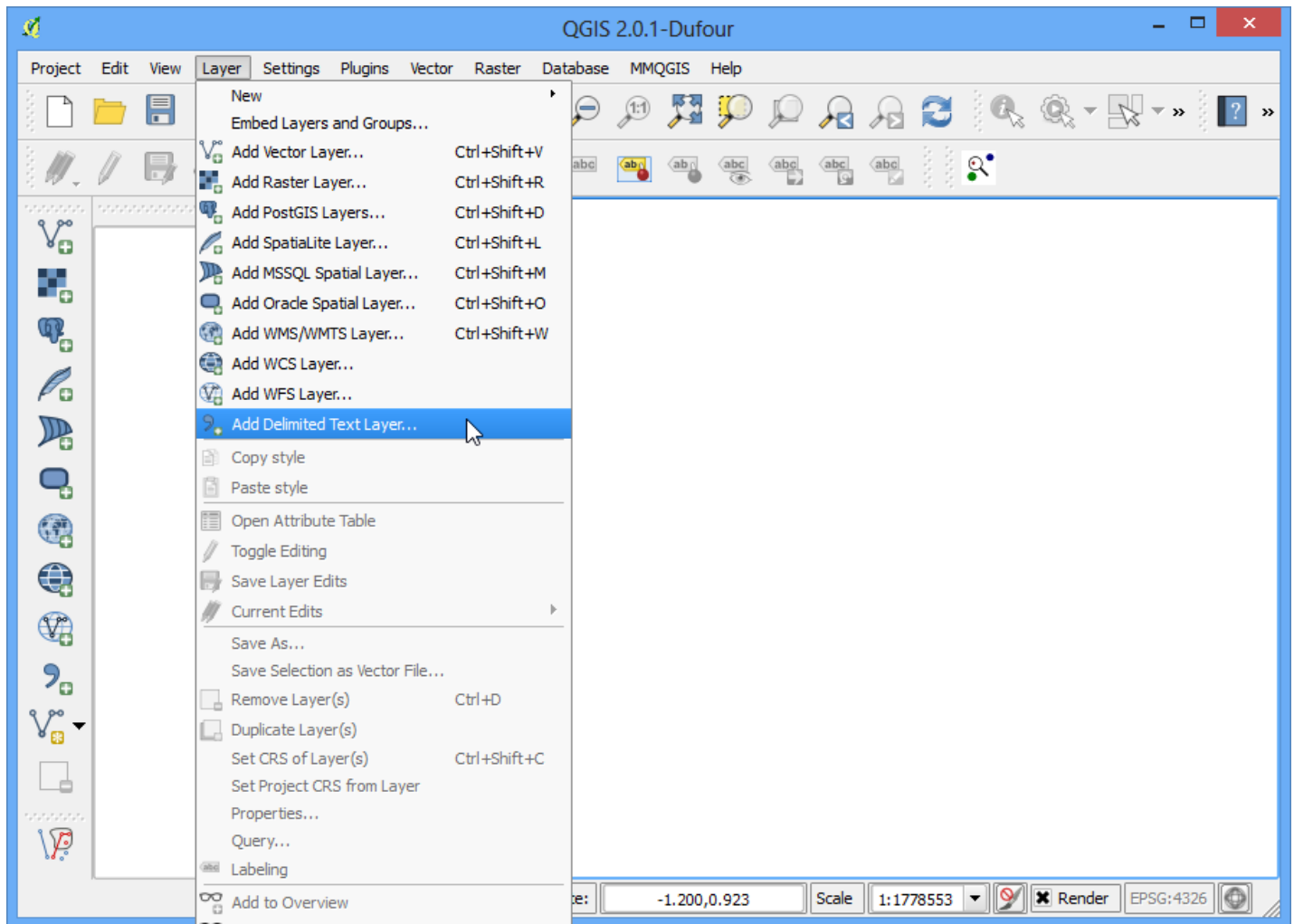
□□ □□□ □□□ □□□□ □□□□□ NOAA's National Geophysical Data Center□ `Significant Earthquake Database <<http://www.ngdc.noaa.gov/nndc/struts/form?t=101650&s=1&d=1>>`_□ □□□□□. `tab-delimited earthquake data <[http://www.ngdc.noaa.gov/nndc/struts/results?type_0=Exact&query_0=\\$ID&t=101650&s=13&d=189&dfn=signif.txt](http://www.ngdc.noaa.gov/nndc/struts/results?type_0=Exact&query_0=$ID&t=101650&s=13&d=189&dfn=signif.txt)>`_□ □□□□ □□□.

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

□□□ □□: [NGDC] [NATURALEARTH]

□□

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



2. Click on the 'Add Delimited Text Layer...' option in the Layer menu. A dialog box will appear with the following fields: File format (set to 'Text (comma delimited)'), Tab (checked), X field (set to 'X'), Y field (set to 'Y'), and OK. Click on the OK button.

Note

QGIS can also open CSV files. However, it is recommended to use the 'Add Delimited Text Layer...' option to ensure the data is correctly interpreted. The 'Add Delimited Text Layer...' option allows you to specify the file format, delimiter, and field names.



4. □□ □□ □□□ QGIS □ □□□□. □□ □□ □□□ □□□□. □□ □□□ --> □□ □□ □□ Layer
 - Add Vector Layer`□ □□□□. □□□□□ ``ne_10m_admin_0_countries.zip``□□□ □□
 - :guilabel:`Open`□ □□□□□. □□□ □□□ □□ :guilabel:`Select layers to add...
 - □□□□ ``ne_10m_admin_0_countries.shp``□ □□□□□.



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



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

Note

OK. QGIS 10.

7. TOC :guilabel: `Yes`.



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



9. `PNTCNT`.

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``0000 0000 00 00 00 0000 00 0000. 00000000 0000 00
 ``PNTCNT``00 20 000000. 0000 000000 0000 0000 00 000000 00 000000 000000.



000 00 00 00 00 000 000 000 00 200 000000 000 00000 000 00000. 0000 000
 0000 00000 0000 00 00000 0000 00 0000 0000 00 0 00 0000 00 00 00000.