

Points in Polygon Analysis

QGIS Tutorials and Tips



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

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

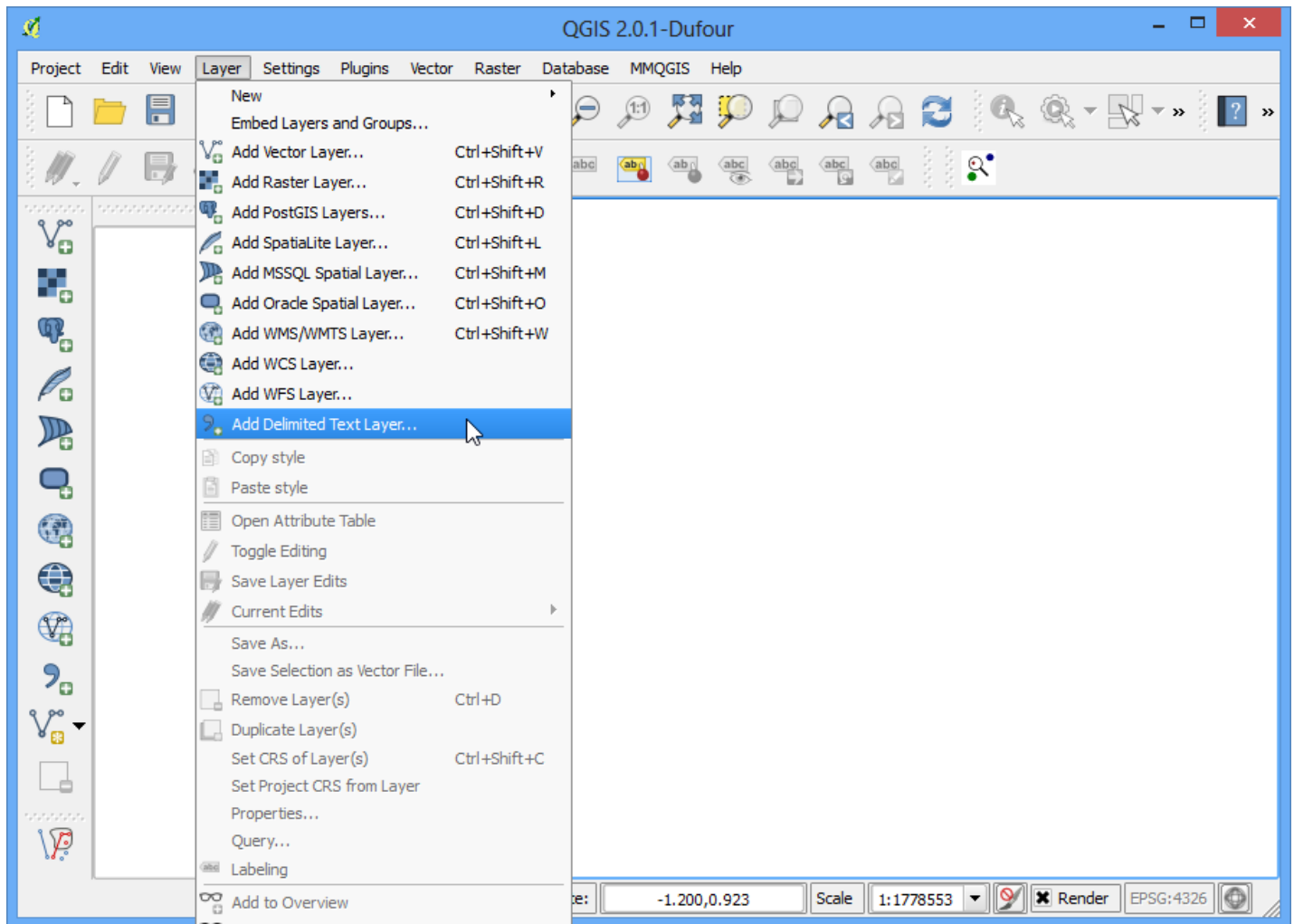
[signif.txt](#)

[ne_10m_admin_0_countries.zip](#)

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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 directly. To do this, click on the 'Open' button in the Layer menu. A dialog box will appear with the following fields: File name, File type (set to 'CSV files (*.csv)'), and Open. Click on the Open button.



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



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

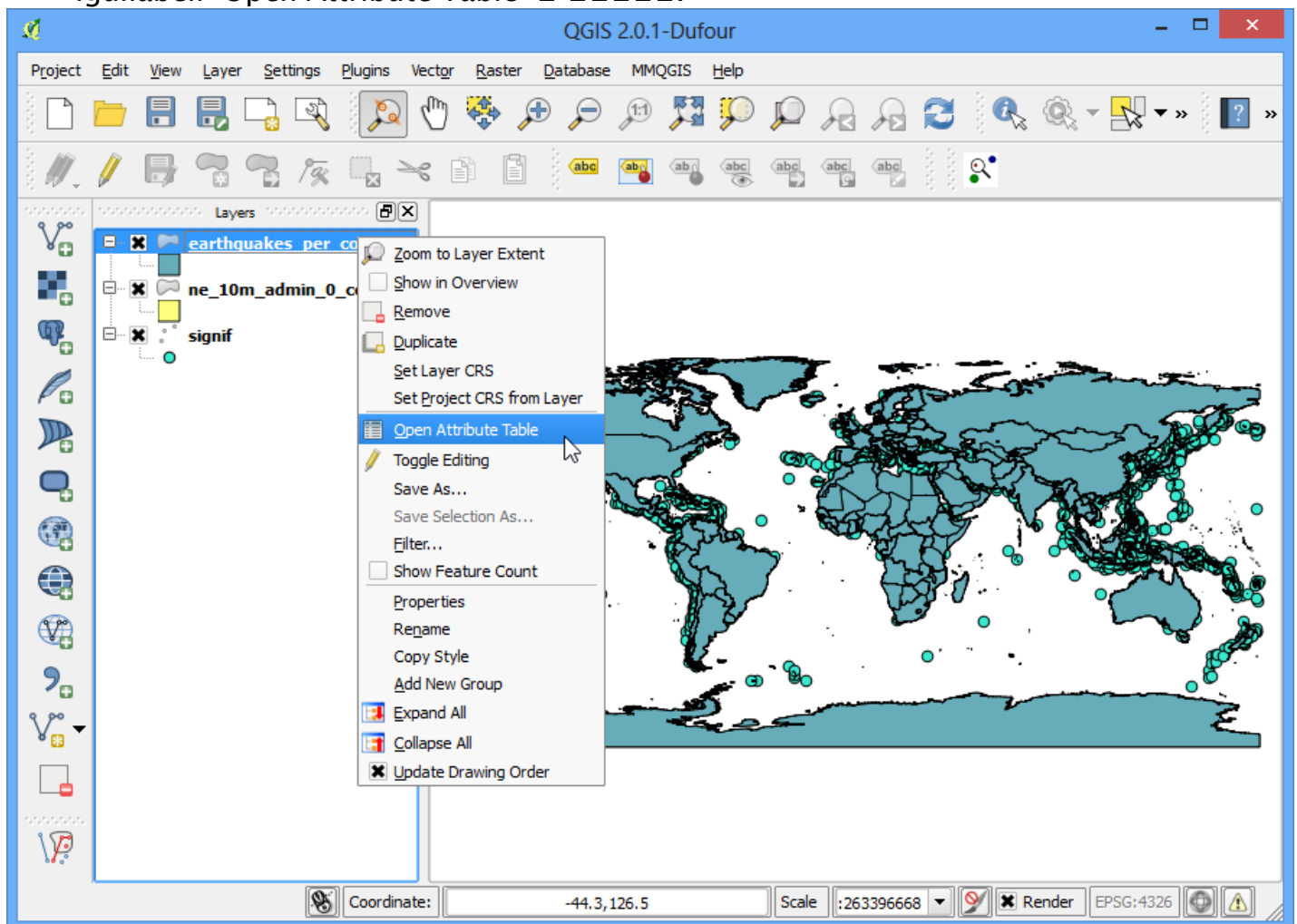
Note

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
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Attribute table - earthquakes_per_country :: Features total: 255, filtered: 255, selected: 1

	REGION_WB	NAME_LEN	LONG_LEN	ABBREV_LEN	TINY	HOMEPART	PNTCNT
42	East Asia & Pac...	5.00	5.00	5.00	-99.00	1.00	540.0000000000...
108	Middle East & ...	4.00	4.00	4.00	-99.00	1.00	345.0000000000...
112	Europe & Centr...	5.00	5.00	5.00	-99.00	1.00	263.0000000000...
230	Europe & Centr...	6.00	6.00	4.00	-99.00	1.00	259.0000000000...
146	Latin America ...	6.00	6.00	4.00	-99.00	1.00	157.0000000000...
238	North America	13.00	13.00	6.00	-99.00	1.00	152.0000000000...
102	East Asia & Pac...	9.00	9.00	5.00	-99.00	1.00	129.0000000000...
90	Europe & Centr...	6.00	6.00	6.00	-99.00	1.00	119.0000000000...
41	Latin America ...	5.00	5.00	5.00	-99.00	1.00	111.0000000000...
177	Latin America ...	4.00	4.00	4.00	-99.00	1.00	110.0000000000...
179	East Asia & Pac...	11.00	11.00	5.00	-99.00	1.00	101.0000000000...
116	East Asia & Pac...	5.00	5.00	5.00	-99.00	1.00	87.0000000000...
104	South Asia	5.00	5.00	5.00	-99.00	1.00	70.0000000000...
50	Latin America ...	8.00	8.00	4.00	-99.00	1.00	64.0000000000...
1	South Asia	11.00	11.00	4.00	-99.00	1.00	57.0000000000...
67	Latin America ...	7.00	7.00	4.00	-99.00	1.00	52.0000000000...
232	East Asia & Pac...	6.00	6.00	6.00	-99.00	1.00	46.0000000000...
4	Europe & Centr...	7.00	7.00	4.00	-99.00	1.00	44.0000000000...
174	South Asia	8.00	8.00	4.00	-99.00	1.00	42.0000000000...
66	Middle East & ...	7.00	7.00	4.00	-99.00	1.00	40.0000000000...
77	Europe & Centr...	6.00	6.00	3.00	-99.00	1.00	38.0000000000...
242	Latin America	9.00	9.00	4.00	-99.00	1.00	38.0000000000...

Show All Features

11. QGIS 中如何识别中国地震？
 1. 打开 QGIS 并加载地震数据。
 2. 右键点击地震数据图层，选择“属性”。



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