

# 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](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:

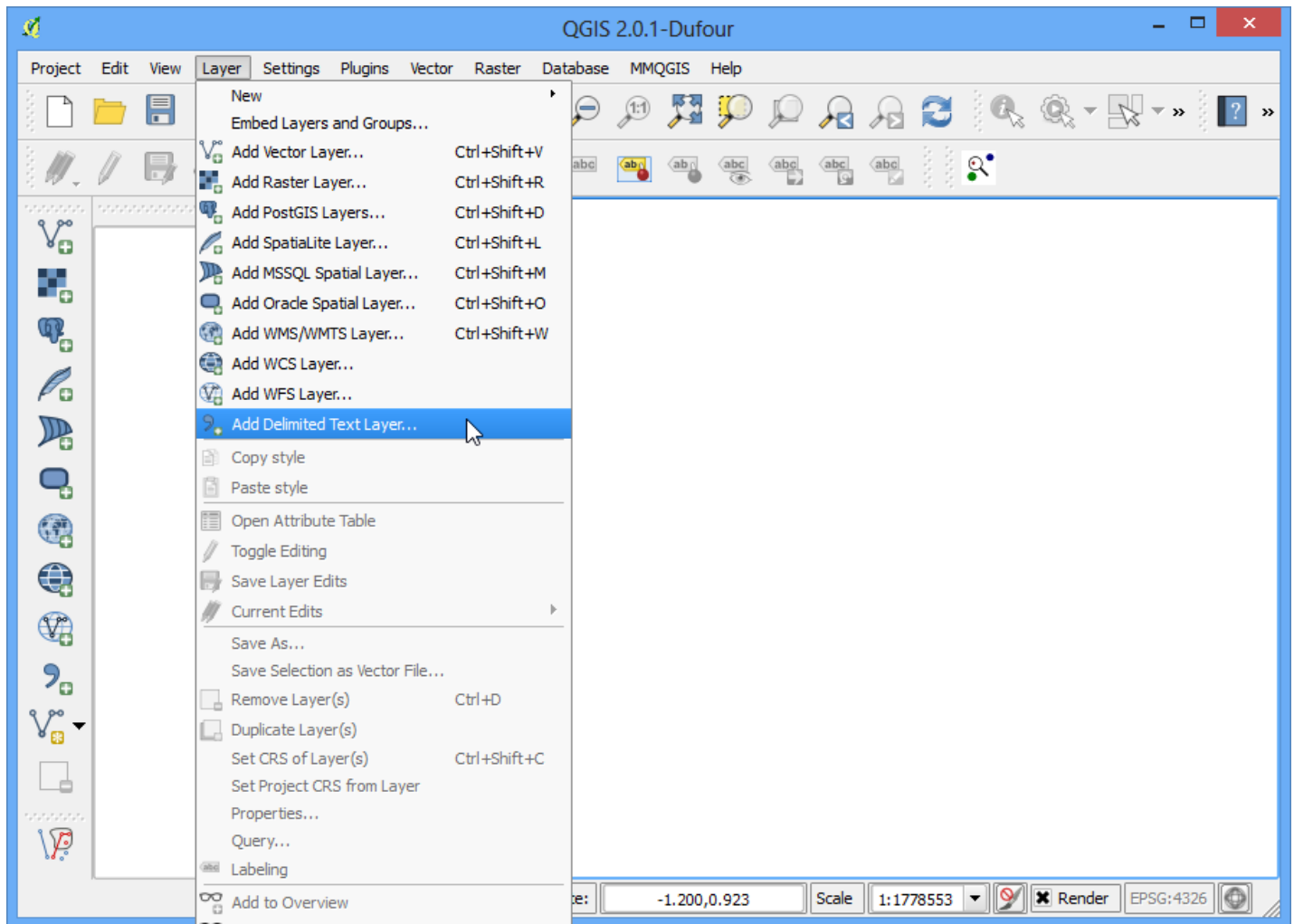
[signif.txt](#)

[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)'), 'X field' (set to 'X'), and 'Y field' (set to 'Y'). Click on the 'OK' button to add the layer.

### Note

QGIS can also open CSV files. To do this, click on 'Layer' > 'Add Delimited Text Layer...'. In the dialog box, set 'File format' to 'Text (comma delimited)', 'X field' to 'X', and 'Y field' to 'Y'. Click on 'OK' to add the layer.





- 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` □ □□□□□.

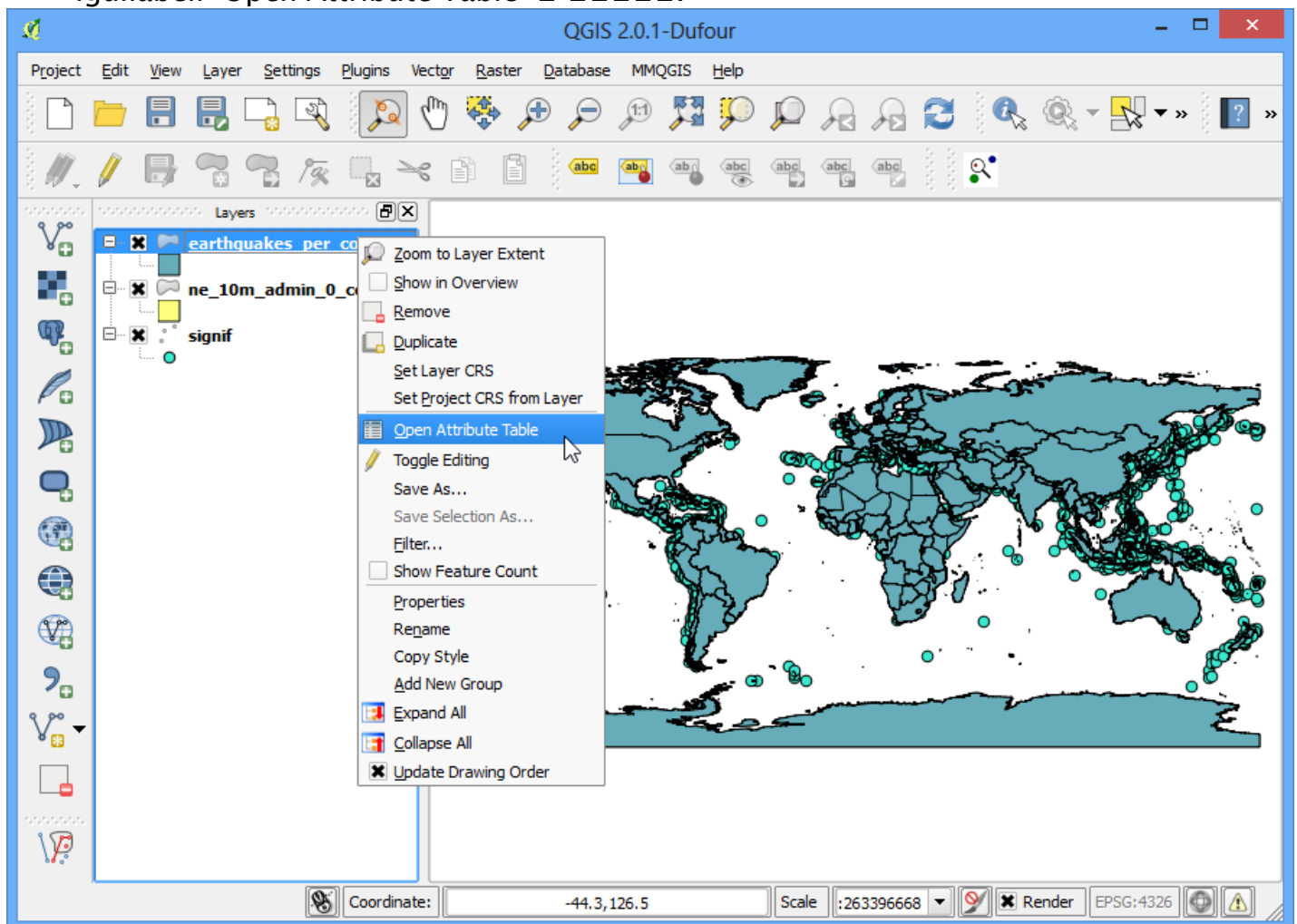
## Note

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

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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，如何识别并高亮显示中国的地震数据？  
 在 QGIS 的 Attribute table 中，使用 Identify 工具，选择 \*\*China\*\* 列，即可识别并高亮显示中国的地震数据。



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