

Points in Polygon Analysis

QGIS Tutorials and Tips



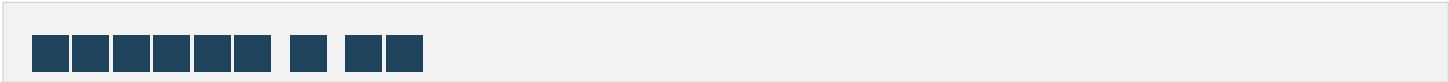
Author

Ujaval Gandhi

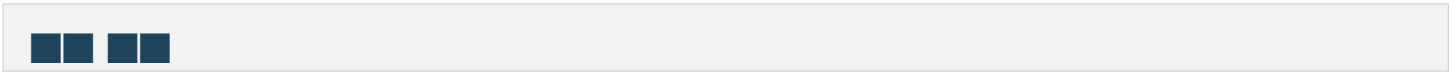
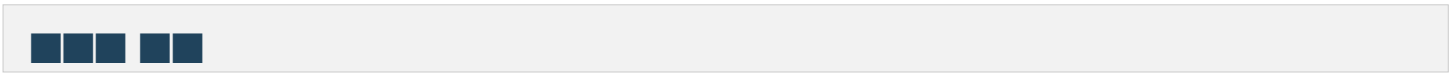
<http://google.com/+UjavalGandhi>

Translations by

SongHyun Choi



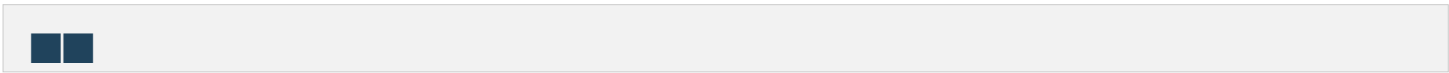
GIS ■■■ ■■ ■■ ■■■ ■■■ ■■■■ ■■ ■■■■■ ■■■■■. ■■ ■■■■ ■■ ■■■ ■■ ■■■■ ■■ ■■
■■■ ■■■■ ■■■■■ ■■ ■■■ ■ ■■■ ■■■■■. ■■■ ■■■ ■■■■ ****Points-in-Polygon**** ■■■■. ■■■■
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■■■■■■ ■■■ ■ ■■■■■.

[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=Eact&query_0=\\$ID&t=101650&s=13&d=189&dfn=signif.txt](http://www.ngdc.noaa.gov/nndc/struts/results?type_0=Eact&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. `Layer --> Add Delimited Text Layer`"signif.txt`".`



2. **File** > **Open...** > **File format** > **Tab** > **X field** > **Y field** > **OK**.

Note

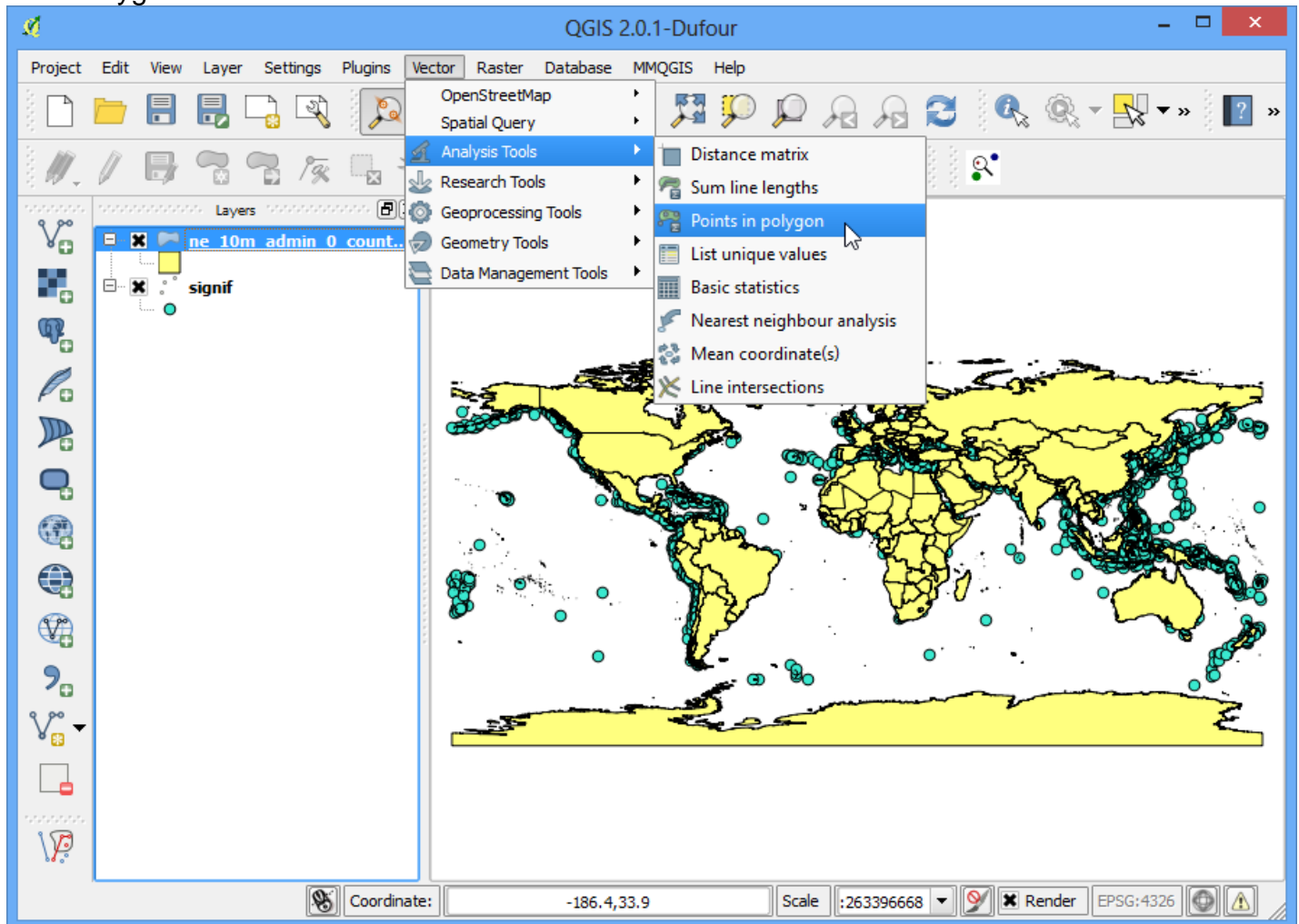
QGIS is a free and open-source geospatial software. It is used for creating maps, analyzing spatial data, and managing geographic information systems (GIS).



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``.

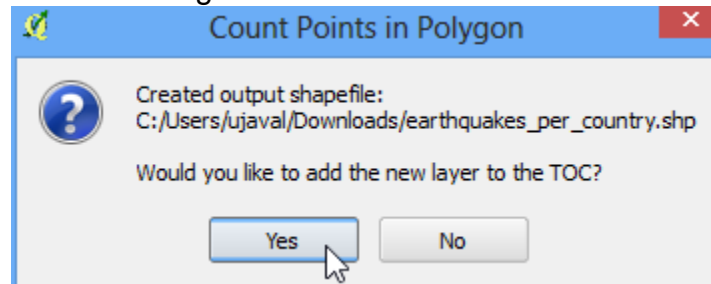


6. `earthquake_per_coutry.shp``. `:guilabel:OK``.

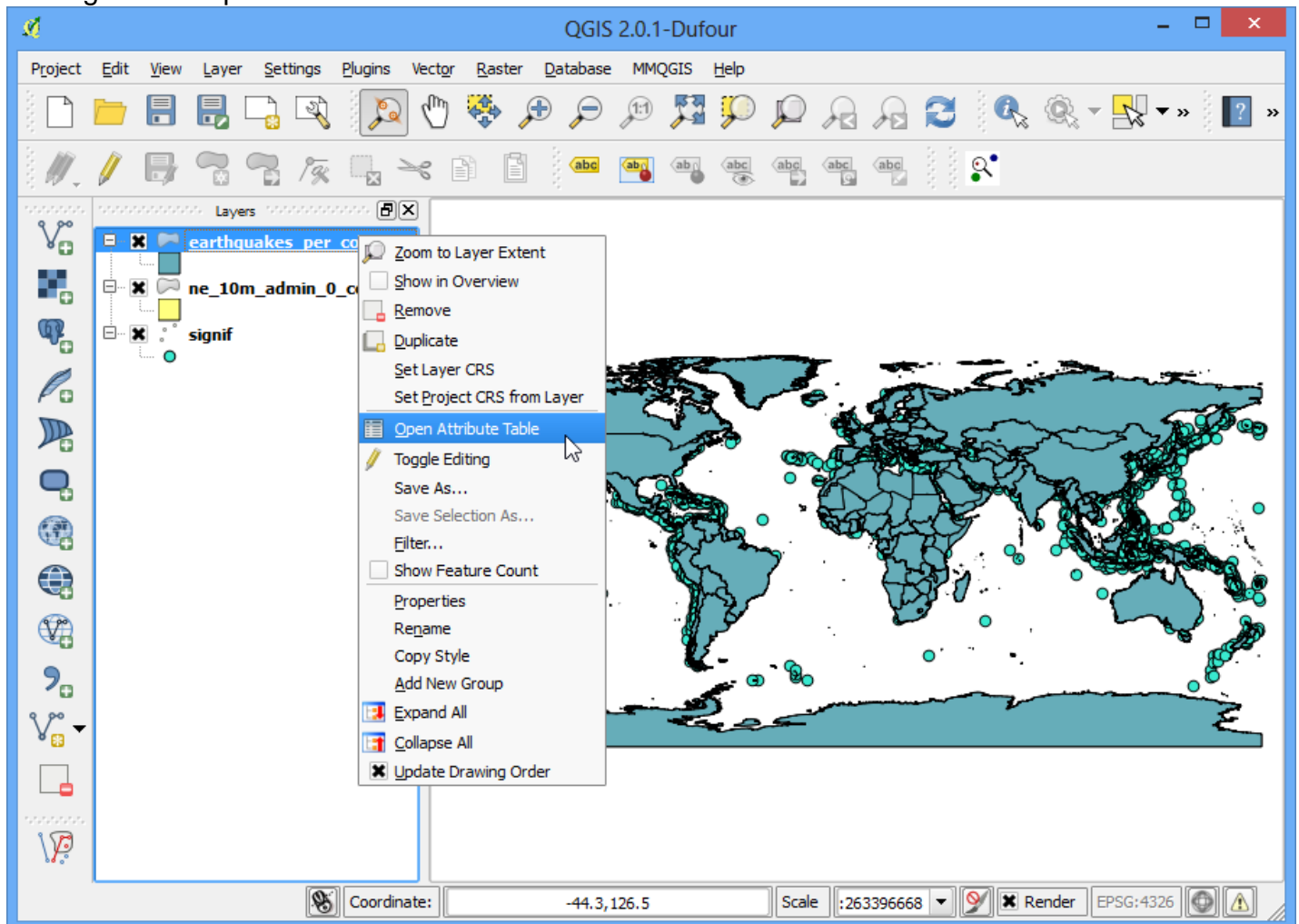
Note

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. **Field Name:** PNTCNT **Field Type:** Double **Field Alias:** PNTCNT **Field Description:** Number of points per country. **Field Units:** **Field Precision:** 2 **Field Scale:** 0.000000000000.



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