

Points in Polygon Analysis

QGIS Tutorials and Tips



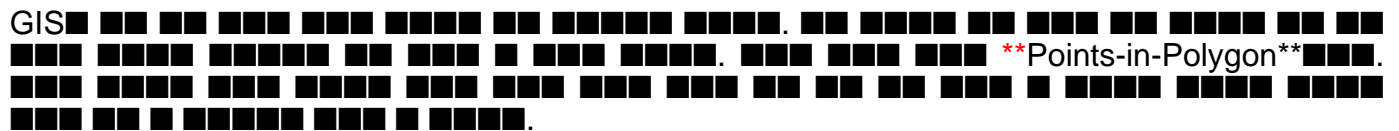
Author

Ujaval Gandhi

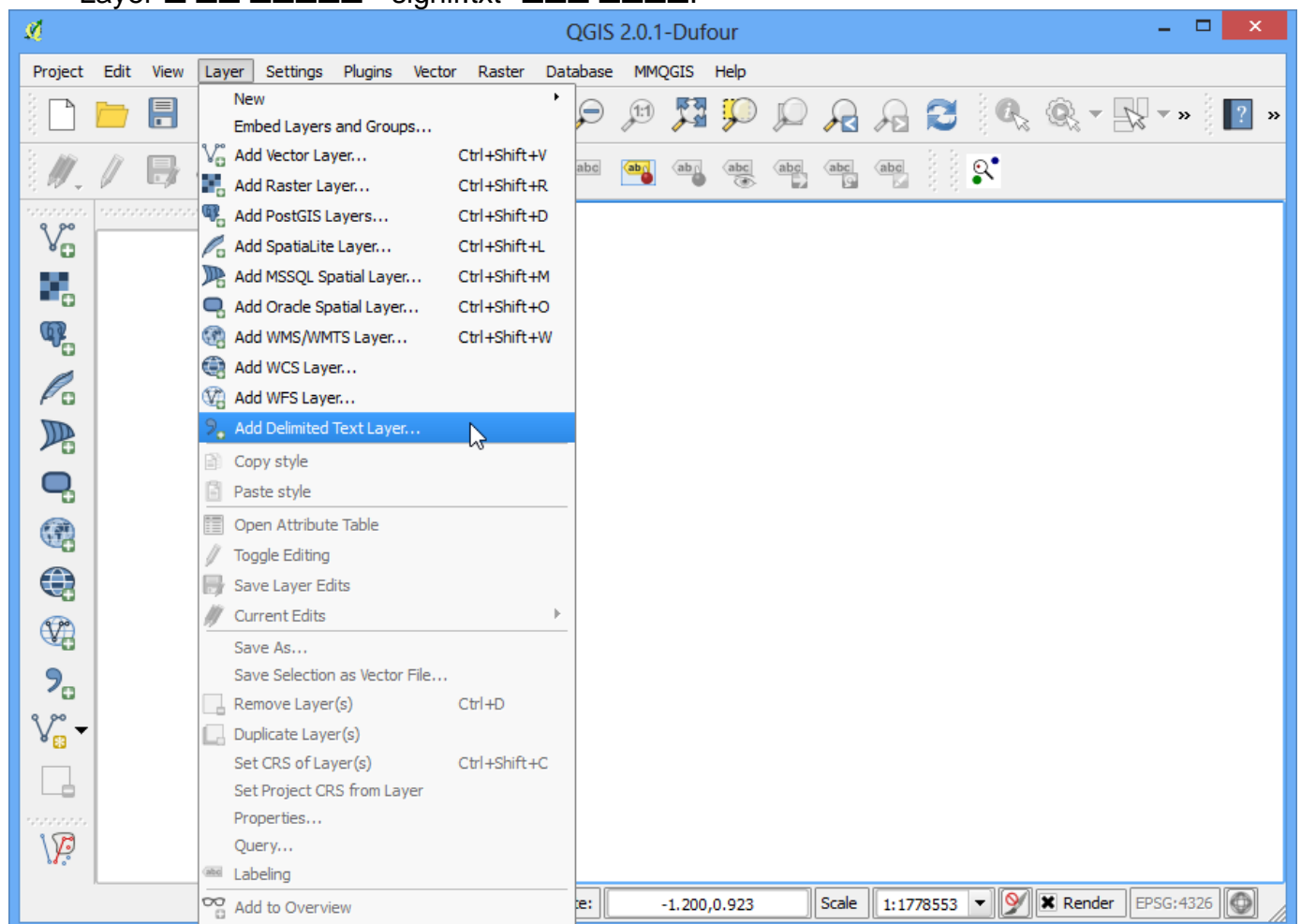
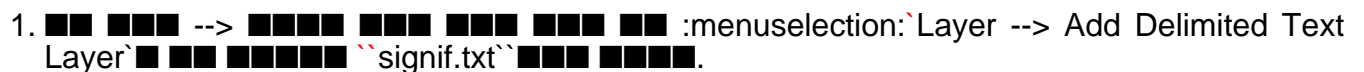
<http://google.com/+UjavalGandhi>

Translations by

SongHyun Choi



■■■ ■■: [NGDC] [NATURALEARTH]



2. **File format**: **Tab**. **X field**: **LONGITUDE**. **Y field**: **LATITUDE**. **OK**.

Note

QGIS is a free and open source GIS. It is a powerful tool for working with spatial data. It can be used to create maps, analyze data, and manage spatial information. It is a great tool for anyone who needs to work with spatial data.

Create a Layer from a Delimited Text File

File Name:

Layer name: Encoding:

File format: ☐ CSV (comma separated values) ☒ Custom delimiters ☐ Regular expression delimiter

☐ Comma ☒ Tab ☐ Space ☐ Colon ☐ Semicolon

Other delimiters: Quote: Escape:

Record options: Number of header lines to discard: ☒ First record has field names

Field options: ☐ Trim fields ☐ Discard empty fields ☐ Decimal separator is comma

Geometry definition: ☒ Point coordinates ☐ Well known text (WKT) ☐ No geometry (attribute only table)

X field: Y field: ☐ DMS coordinates

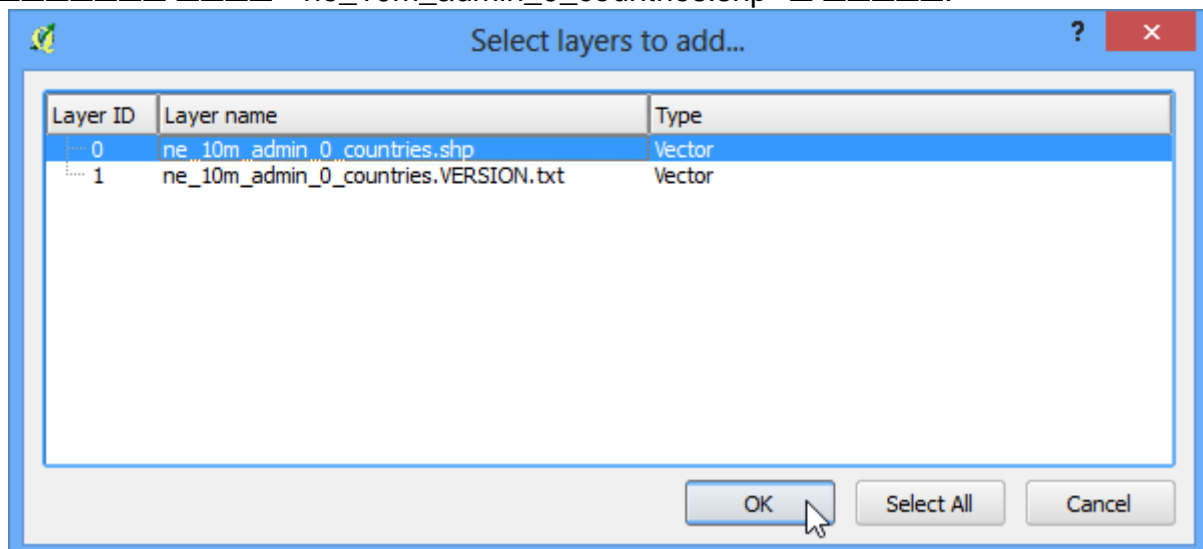
Layer settings: ☒ Use spatial index ☐ Use subset index ☐ Watch file

	I_D	FLAG_TSUNAMI	YEAR	MONTH	DAY	HOUR	MINUTE	SECOND	FOCAL_DEPTH	EQ_MAG_MW	EQ_MAG
1	1		-2150								
2	2	Tsu	-2000								
3	3		-2000						18		7.1
4	8		-1566								
5	11		-1450								

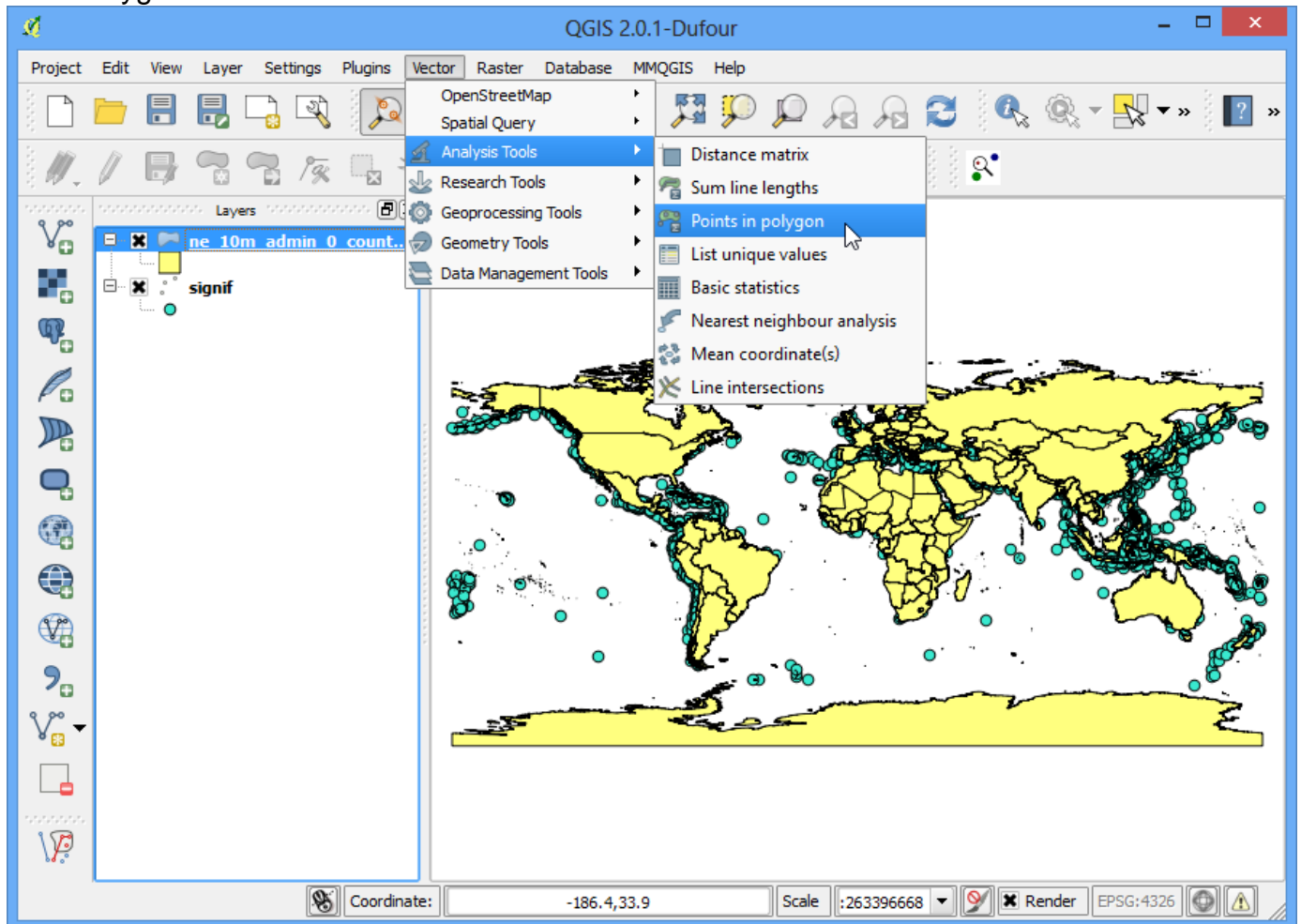
3. **Coordinate Reference System Selector**: **WGS 84 EPSG:436**.



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

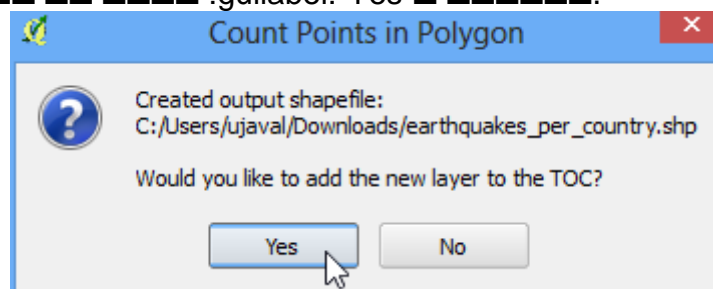


6. **earthquake_per_coutry.shp** :guilabel: `OK`.

Note

OK. QGIS 10.

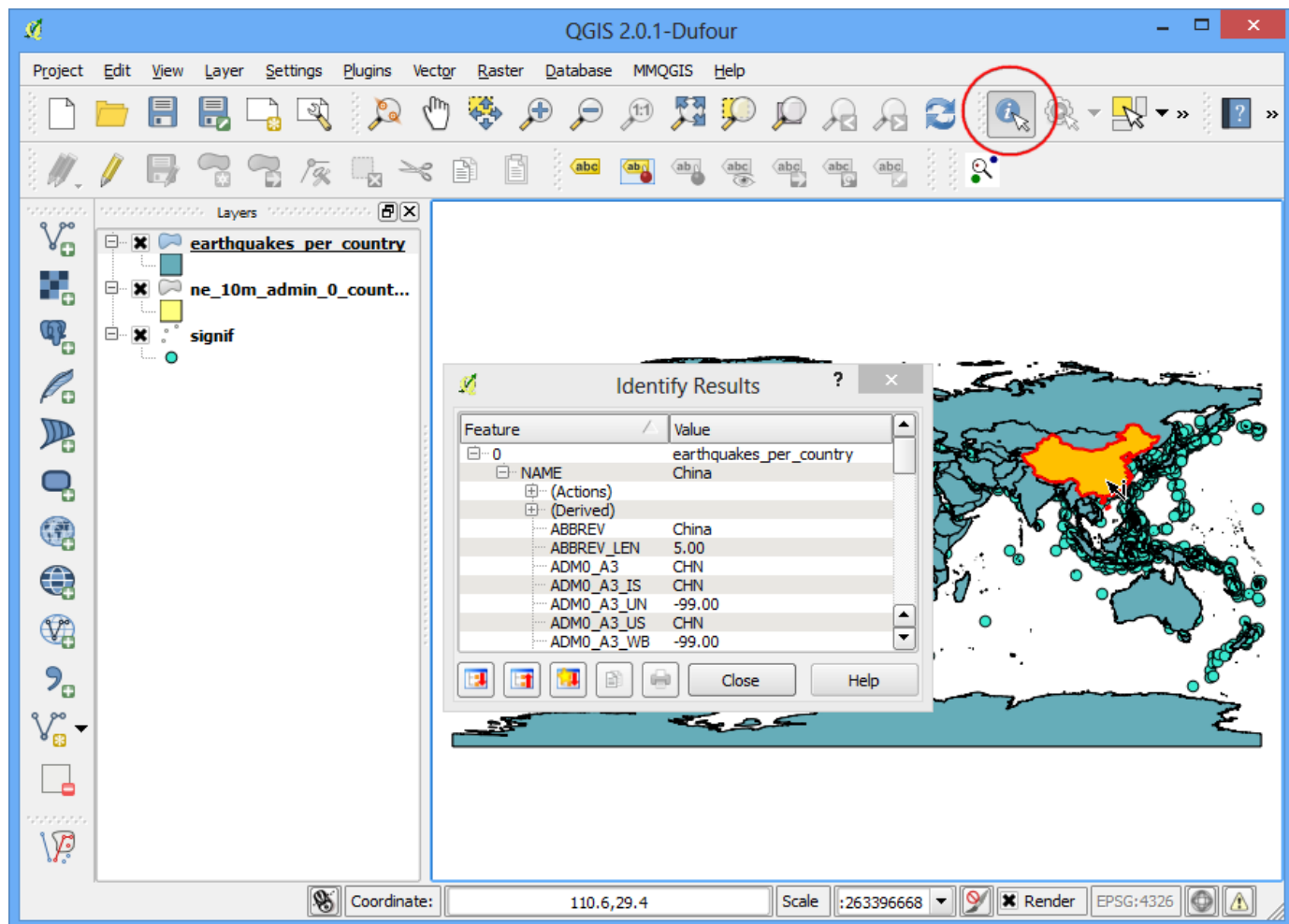
7. **TOC** :guilabel: `Yes`.



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



9. ■■■ ■■■■■ ``PNTCNT`■■■ ■■■■ ■■■■ ■■■■ ■■■■ ■■■■. ■■■■ ■■■■ ■■■■ ■■■■
 ■■■■■■■■■■ ■■■■ ■■■■ ■■■■ ■■■■.



2. The map shows the distribution of earthquakes per country. The map is titled 'earthquakes_per_country'. The map shows a world map with a focus on China, which is highlighted in orange. Numerous green dots representing earthquake locations are scattered across the map, particularly concentrated in China.