

# Points in Polygon Analysis

QGIS Tutorials and Tips



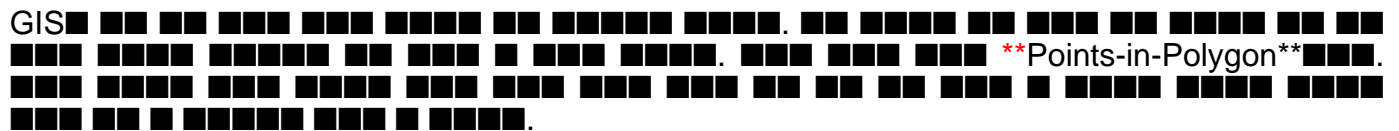
Author

Ujaval Gandhi

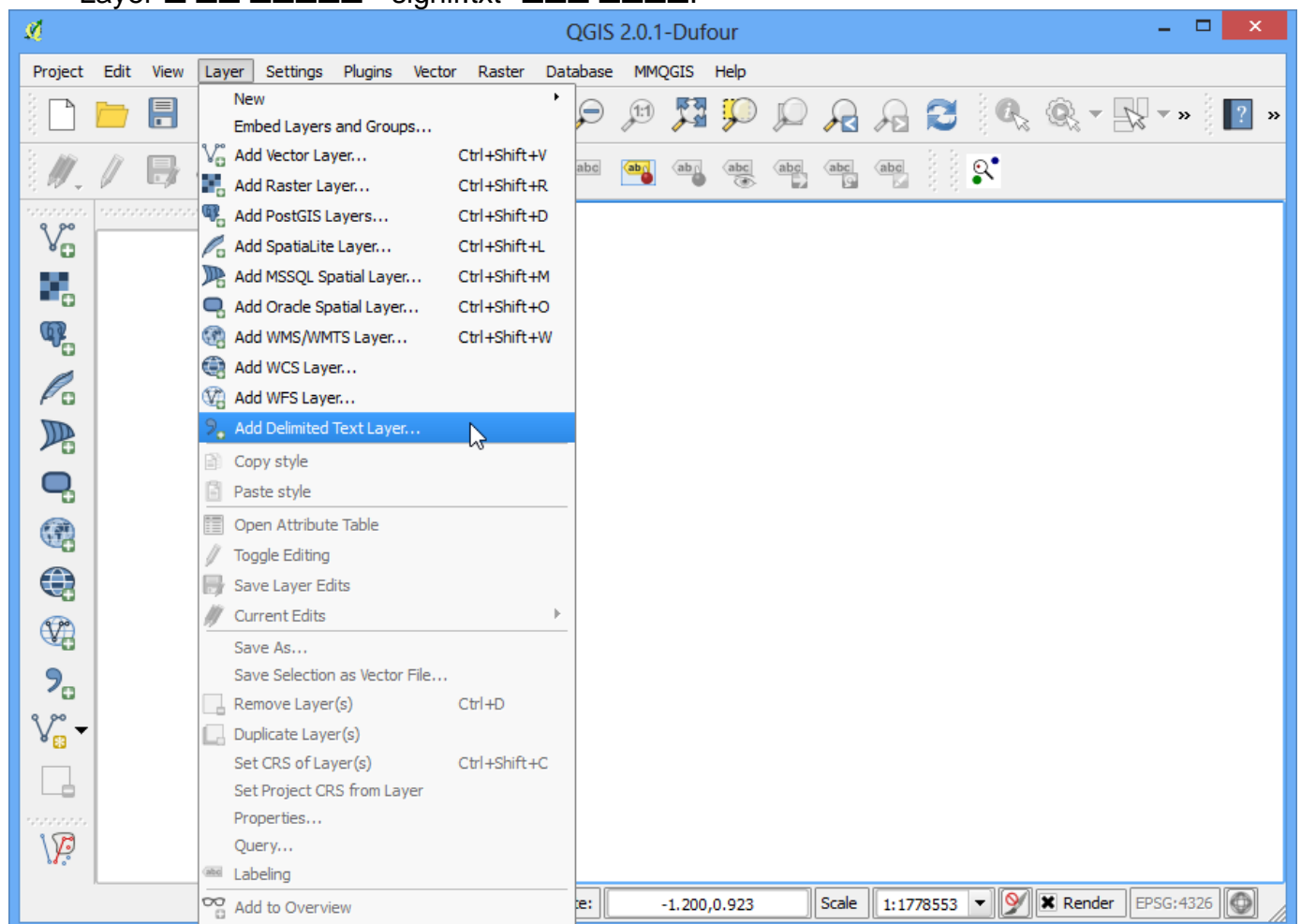
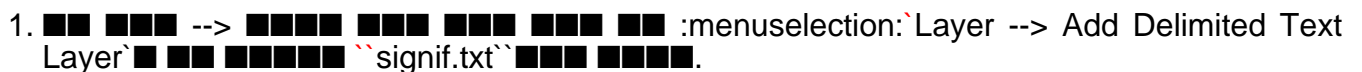
<http://google.com/+UjavalGandhi>

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

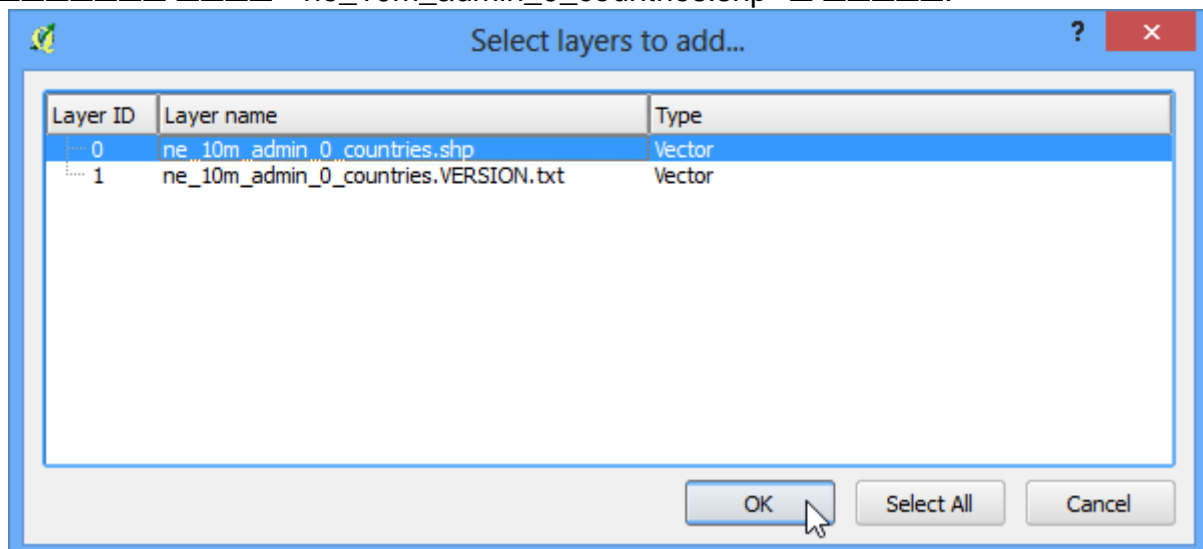
Layer settings: ☒ Use spatial index ☐ Use subset index ☐ Watch file

	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								

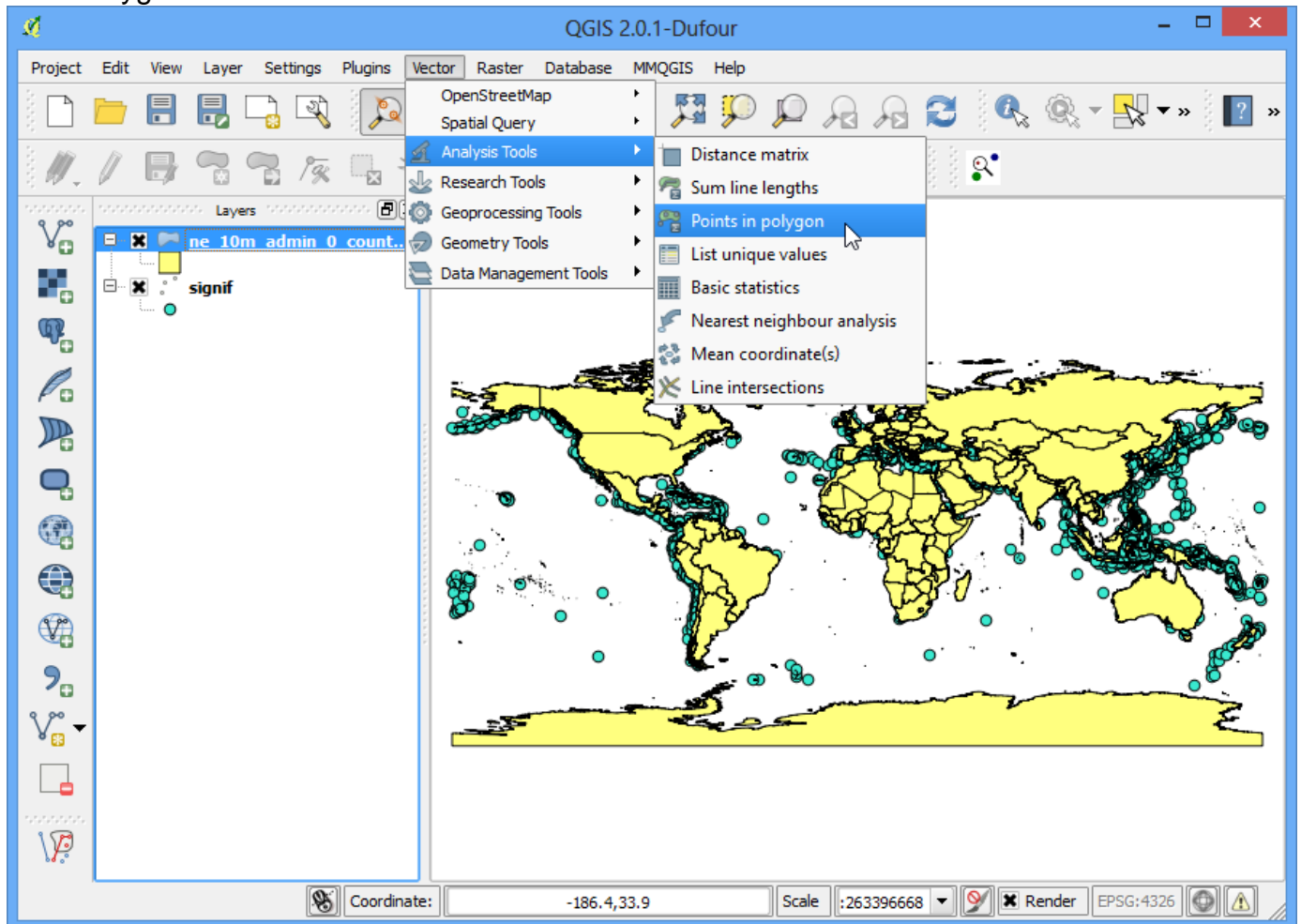
3. **Coordinate Reference System Selector**: **WGS 84 EPSG:436**.



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`.

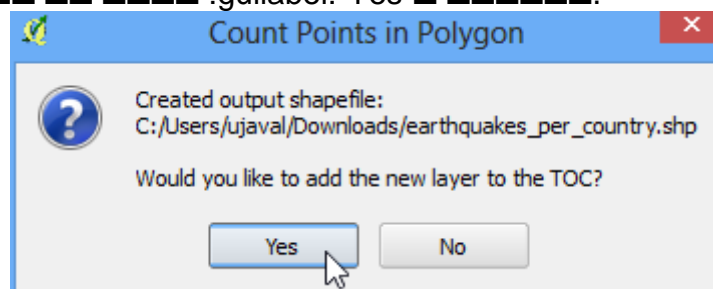


6. **earthquake\_per\_coutry.shp** :guilabel: `OK`.

### Note

OK. QGIS 10.

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



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

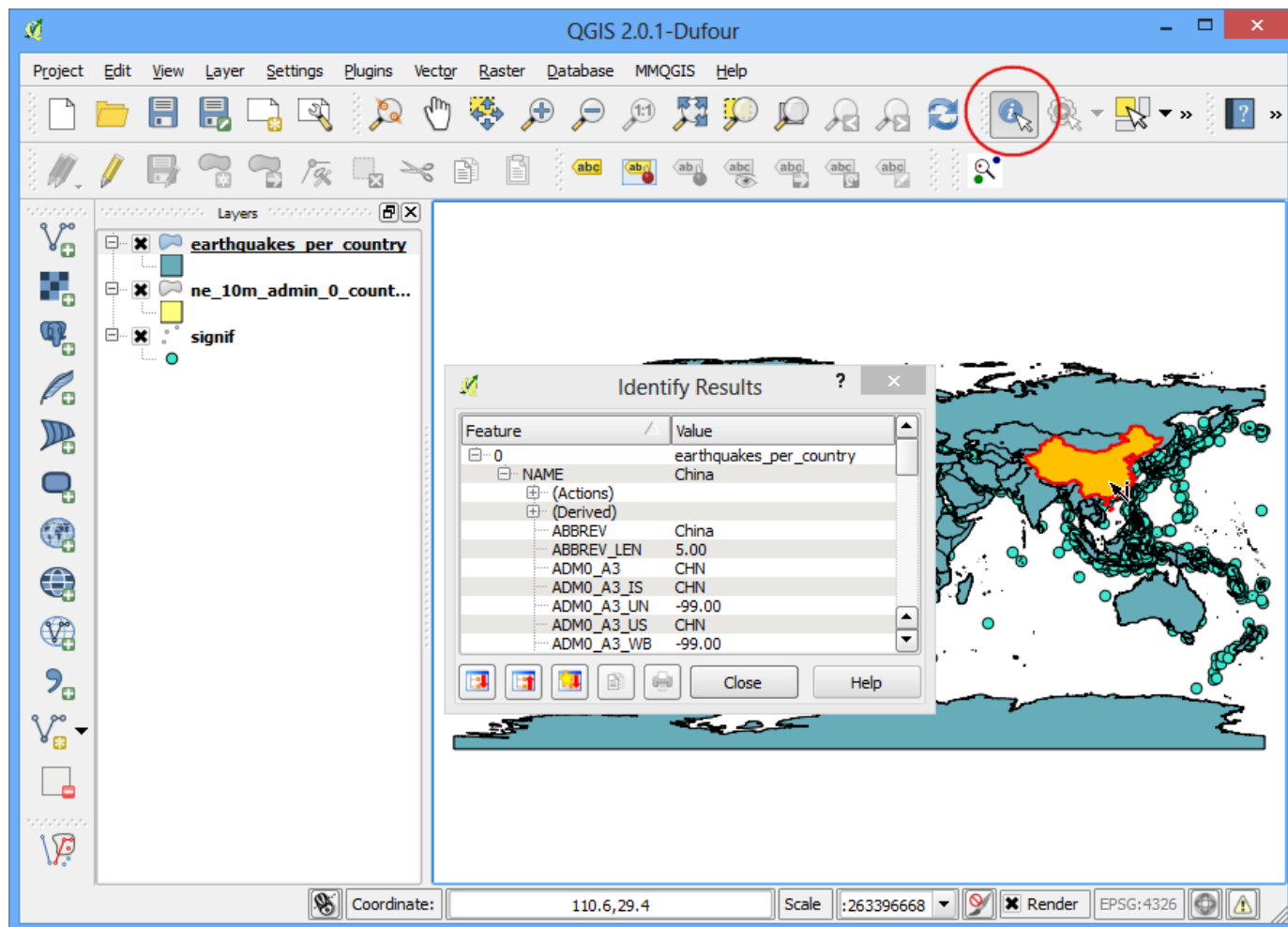


9. ■■■ ■■■■■ ``PNTCNT``■■■ ■■■■ ■■■■ ■■■■ ■■■■ ■■■■. ■■■■ ■■■■■ ■■■■  
 ■■■■■■■■■ ■■■ ■■■■ ■■■ ■■■■.









2