

Importing Spreadsheets or CSV files

QGIS Tutorials and Tips



Author

Ujaval Gandhi

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

Translations by

SongHyun Choi

CSV files

GIS files are often in CSV format. This page shows how to download GIS data from the USGS website.

Download

Download the data from the USGS website.

Download

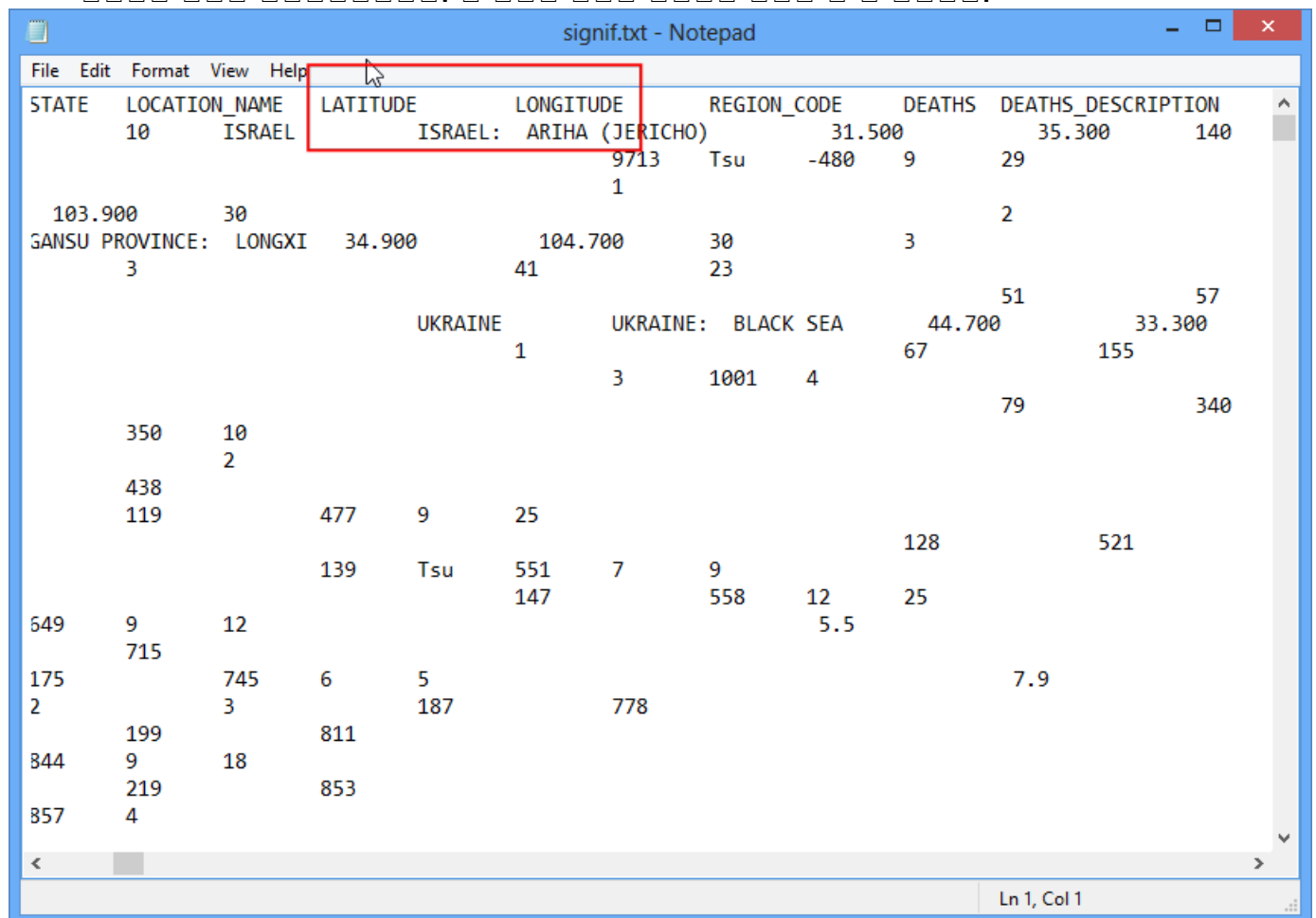
NOAA has a database of significant earthquakes. [Learn more.](#)

Download [Significant Earthquake Database](#) text file.

Download [NGDC]

Download

1. Download the data from the USGS website. The data is in CSV format. Open the file in QGIS. The file is named 'Significant Earthquake Database'. Save the file as 'Significant Earthquake Database.csv'. The file is a Comma Separated Values (CSV) file. The file contains the following columns: STATE, LOCATION_NAME, LATITUDE, LONGITUDE, REGION_CODE, DEATHS, DEATHS_DESCRIPTION. The file contains the following data:



STATE	LOCATION_NAME	LATITUDE	LONGITUDE	REGION_CODE	DEATHS	DEATHS_DESCRIPTION
10	ISRAEL	ISRAEL: ARIHA (JERICHO)	31.500	35.300	140	
		9713	Tsu	-480	9	29
		1				2
103.900	30					
GANSU PROVINCE:	LONGXI	34.900	104.700	30	3	
3		41	23			
		UKRAINE	UKRAINE: BLACK SEA		51	57
		1			44.700	33.300
		3	1001	4	67	155
					79	340
350	10					
438	2					
119		477	9	25		
		139	Tsu	551	7	9
				147		521
549	9	12		558	12	25
	715				5.5	
175	745	6	5			7.9
2	3	187		778		
	199	811				
844	9	18				
	219	853				
857	4					

2. QGIS menu selection: Layers --> Add Delimited Text Layer`

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	3		-2000						18		7.1
3	2	Tsu	-2000								
4	8		-1566								
5	11		-1450								

4. □□ □□□□□□ □□□□□□ □□□ □□□. □ □□□ □□ X, Y□□□ □□□ □□ □□□□□□. □ □□□□□ □□□ □□□□ □□□ □ □□□□. □□□□ □□□ □□□□□ □□□□□□.

Delimited text file errors

Errors in file C:/Users/ujaval/Downloads/signif.txt

49 records discarded due to missing geometry definitions

6 records discarded due to invalid geometry definitions

The following lines were not loaded into QGIS due to errors:

Invalid X or Y fields at line 306

Invalid X or Y fields at line 2253

Invalid X or Y fields at line 3239

Invalid X or Y fields at line 3324

Invalid X or Y fields at line 3365

Invalid X or Y fields at line 3420

5. □□□□ :guilabel: `Coordinate Reference System Selector` □□ □□□ CRS□ □□□□ □□□□. □□ □□□ □□□ □□□□□ `WGS 84`□ □□□□ :guilabel: `OK`□ □□□□□□.



6. □□□ □□□□ □□□□□ QGIS□□□□ □□□□ □□ □ □ □□ □□□□.

