

Importing Spreadsheets or CSV files

QGIS Tutorials and Tips



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CSV files

GIS files are often in CSV format. This page shows how to open a CSV file in GIS.

Open a CSV file

Open a CSV file in QGIS.

Download a CSV file

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

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

or [\[NGDC\]](#)

Steps

1. Open the CSV file in a text editor. In QGIS, go to **File > Open...** and select the CSV file. In the **Open** dialog, set **File type** to **Text (CSV) (*.csv)**. Click **Open**. In the **Save As** dialog, set **File type** to **Text (CSV) (*.csv)**. Click **Save**. The file is now a **Tab Delimited File** (CSV).

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		128
				558	12	521
549	9	12			5.5	25
715						
175	745	6	5			7.9
2	3	187		778		
	199	811				
844	9	18				
	219	853				
857	4					

2. QGIS **File > Open...**: menu selection: **Layers --> Add Delimited Text Layer**.



3. Create a Layer from a Delimited Text File

Browse File format Custom delimiters Tab Geometry definition X, Y *LONGITUDE* *LATITUDE*

OK

Note

X Y . Latitude - **Y** .
 Longitude - **X** .

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□□□□ □□□□ □□ □ □ □□ □□□□.

