

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 earthquakes. [Learn more.](#)

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

or [\[NGDC\]](#)

Steps

1. Open the CSV file in QGIS. The file is named 'Significant Earthquake Database' and is located in the 'Significant Earthquake Database' folder. The file is a 'Comma Separated Values (CSV)' file. The file contains a list of earthquakes with columns for 'STATE', 'LOCATION_NAME', 'LATITUDE', 'LONGITUDE', 'REGION_CODE', 'DEATHS', and 'DEATHS_DESCRIPTION'. The file is named 'signif.txt'.

STATE	LOCATION_NAME	LATITUDE	LONGITUDE	REGION_CODE	DEATHS	DEATHS_DESCRIPTION
10	ISRAEL	31.500	35.300	140	9	29
103.900	30	34.900	104.700	30	3	2
3	3	41	23	51	57	155
350	10	2	477	9	25	128
438	119	139	Tsu	551	7	9
549	9	12	715	745	6	5
175	2	199	811	187	778	7.9
844	9	18	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□□□□ □□□□ □□ □ □ □□ □□□□.

