

Importing Spreadsheets or CSV files

QGIS Tutorials and Tips



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How to Import CSV Data into QGIS

This tutorial shows you how to import CSV data into QGIS. The CSV file contains a list of earthquakes and their locations. The CSV file is located in the following directory:

CSV File

Download the CSV file and save it in your local directory.

CSV File

NOAA has a list of earthquakes that occurred in 2015. You can download the list of earthquakes from the following link: [Learn more](#).

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

Download [NGDC]

CSV File

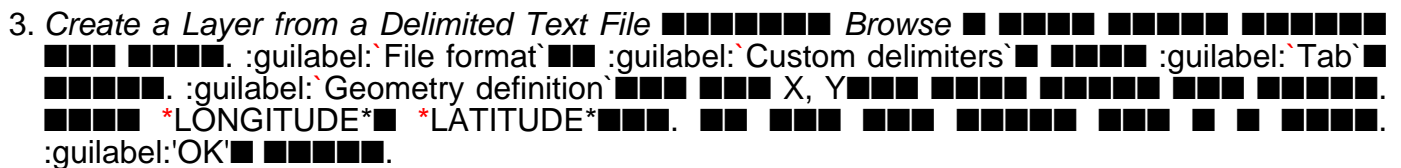
1. Open QGIS. Go to File > Open... and select the CSV file you downloaded. In the Open dialog, make sure the file type is set to "All files (*.*)". Click "Open".

signif.txt - Notepad

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	44.700	51	57
		1	3	1001	4	33.300
					67	155
					79	340
350	10					
438	2					
119		477	9	25		
		139	Tsu	551	7	9
				147	558	12
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					

Ln 1, Col 1

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



X Y Latitude Longitude **Y** **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

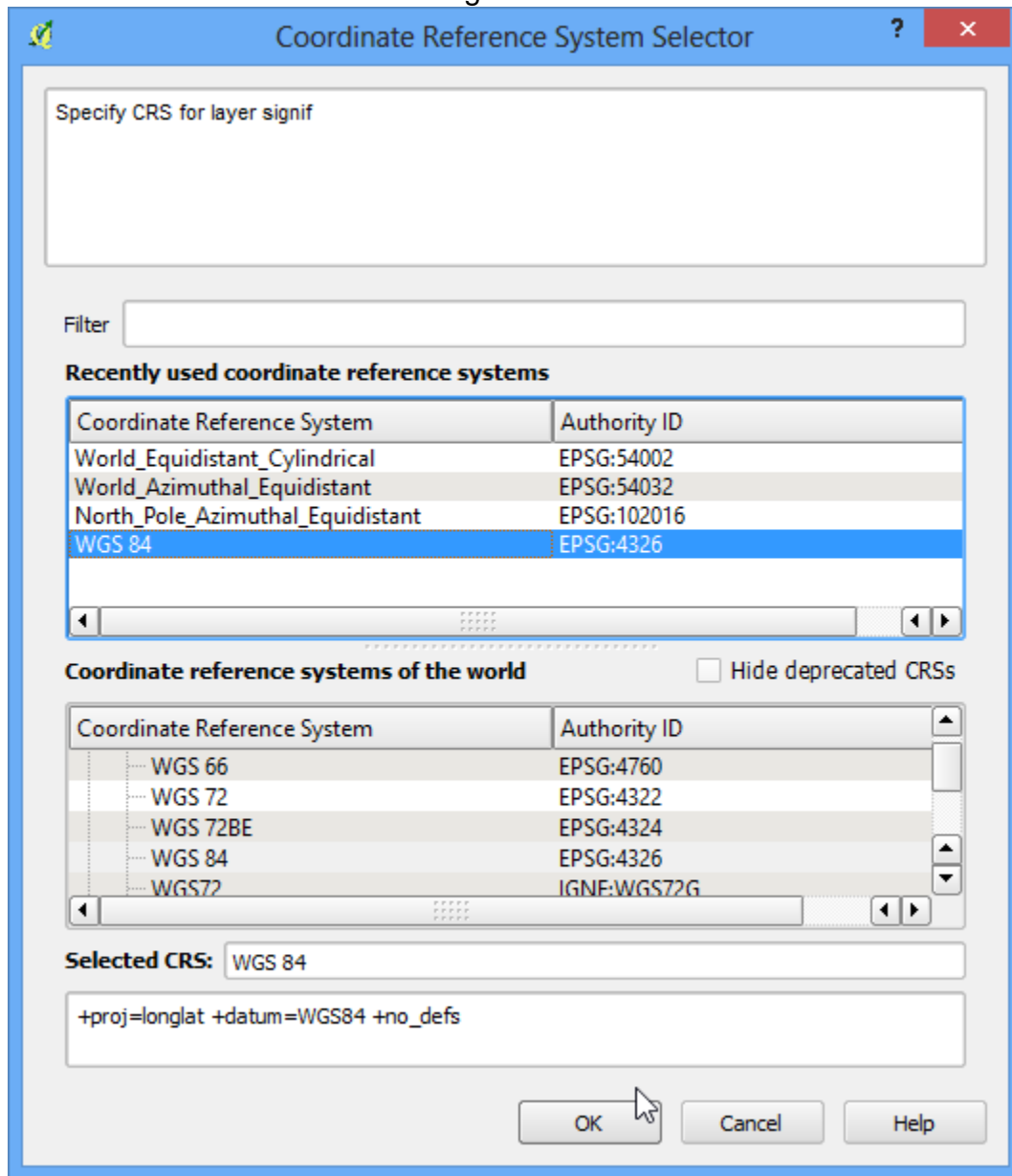
	I_D	FLAG_TSUNAMI	YEAR	MONTH	DAY	HOUR	MINUTE	SECOND	FOCAL_DEPTH	EQ_MAG_MW	EQ_MAG
1	1		-2150								
2	3		-2000						18		7.1
3	2	Tsu	-2000								
4	8		-1566								
5	11		-1450								

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. `crs_dialog = QgsCoordinateReferenceSystemSelector()` `crs_dialog.crs = QgsCoordinateReferenceSystem('EPSG:4326')`
`crs_dialog.crs = QgsCoordinateReferenceSystem('EPSG:4326')` `crs_dialog.ok()`



6. `crs_dialog = QgsCoordinateReferenceSystemSelector()` `crs_dialog.crs = QgsCoordinateReferenceSystem('EPSG:4326')`

