

# Importing Spreadsheets or CSV files

QGIS Tutorials and Tips



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## Импорт таблиц или CSV-файлов

Зачастую данные ГИС поставляются в виде таблицы или электронных таблиц Excel. Кроме того, если у вас есть список координат в формате долгота/широта, вы можете легко импортировать эти данные в ваш ГИС-проект.

### Обзор задачи

Мы импортируем в QGIS текстовый файл с данными о землетрясениях.

### Получение данных

NOAA's National Geophysical Data Center produces a great dataset of all significant earthquakes since 2150 BC. [Learn more.](#)

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

Источник данных: [NGDC]

### Методика

1. Examine your tabular data source. To import this data to QGIS, you will have to save it as a text file and need at least 2 columns which contain the X and Y coordinates. If you have a spreadsheet, use **Save As** function in your program to save it as a **Tab Delimited File** or a **Comma Separated Values (CSV)** file. Once you have the data exported this way, you can open it in a text editor such as Notepad to view the contents. In case of the Significant Earthquake Database, the data already comes as a text file which contains latitude and longitude of the earthquake centers along with other related attributes. You will see that each field is separated by a TAB.

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				
103.900	30				2	
GANSU PROVINCE:	LONGXI	34.900	104.700	30	3	
		3	41	23		
		UKRAINE	UKRAINE: BLACK SEA	44.700	51	57
		1		67	155	
		3	1001	4		
					79	340
	350	10				
		2				
	438					
	119		477	9	25	
			139	Tsu	551	7
			147	9	558	12
					5.5	25
549	9	12				
	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. Откройте QGIS. Нажмите на Layers ▸ Add Delimited Text Layer.



3. In the Create a Layer from a Delimited Text File dialog, click on Browse and specify the path to the text file you downloaded. In the File format section, select Custom delimiters and check Tab. The Geometry definition section will be auto-populated if it finds a suitable X and Y coordinate fields. In our case they are LONGITUDE and LATITUDE. You may change it if the import selects the wrong fields. Click OK.

## Note

It is easy to confuse X and Y coordinates. Latitude specifies the north-south position of a point and hence it is a Y coordinate. Similarly Longitude specifies the east-west position of a point and it is a X coordinate.

File Name: C:/Users/ujaaval/Downloads/signif.txt

Layer name: signif

Encoding: UTF-8

File format: ☐ CSV (comma separated values) ☒ Custom delimiters ☐ Regular expression delimiter

Comma ☐ Tab ☒ Space ☐ Colon ☐ Semicolon

Other delimiters: Other delimiters Quote " Escape "

Record options: Number of header lines to discard: 0 ☒ 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: LONGITUDE Y field: LATITUDE ☐ 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								

OK Cancel Help

4. You may see some errors displayed in the next dialog. The errors in this file are mainly due to missing X or Y fields. You may examine these errors and fix the problems in your source file. For this tutorial, you may ignore these errors.



5. Next, a Coordinate Reference System Selector will ask you to select a coordinate reference system. Since the earthquake coordinates are in latitudes and longitudes, you should select **WGS 84**. Click OK.



6. You will now see that the data will be imported and displayed in the QGIS canvas.

