

Importing Spreadsheets or CSV files

QGIS Tutorials and Tips



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如何制作 CSV 文件

在 GIS 中，点数据通常以 CSV 文件存储。CSV 文件/表格是 GIS 软件可以识别的简单格式。

如何制作

通常，点数据可以导出为 QGIS 中的 CSV 文件。

如何制作

NOAA 提供了一个包含 2150 个地震点的 CSV 文件。 [Learn more.](#)

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

点数据 [NGDC]

如何

1. 在 QGIS 中打开 CSV 文件。在 QGIS 中，选择“图层”>“添加新图层”>“添加 CSV 数据源”。在弹出的对话框中，选择 CSV 文件的路径。在“分隔符”下拉菜单中选择“逗号”。在“文本分隔符”下拉菜单中选择“双引号”。在“保存为”对话框中，选择“**Tab Delimited File**”或“**Comma Separated Values (CSV)**”。

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 | 3 | 1001 | 4 | 67 |
| | | | | | | 155 |
| | | | | | 79 | 340 |
| 350 | 10 | | | | | |
| | 2 | | | | | |
| 438 | | | | | | |
| 119 | | 477 | 9 | 25 | | |
| | | 139 | Tsu | 551 | 7 | 9 |
| | | | | 147 | | 558 |
| 549 | 9 | 12 | | | 12 | 25 |
| | 715 | | | | 5.5 | |
| 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` .



3. Create a Layer from a Delimited Text File

Note

X Y 000 0000 0000. 00 Latitude 00 0-0000 0000 **Y**000 000. 000000
00 Longitude 00 0-0000 0000 **X**000 000.

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. `guiabel: 'Coordinate Reference System Selector'` `CRS` `WGS 84` `guiabel: 'OK'`.



6. `QGIS`.

