

# csv2shp - A simple tool to convert csv files to shape files

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# Motivation

## What is it? and What is it for?

- It is a tool for converting csv files to shape files
- You can create shape files with a single command!

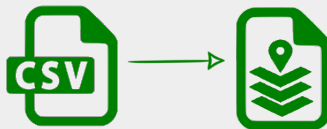


Figure: Csv file to shape file

# Advantages

## A simple tool, a single command



Figure: Advantages of csv2shp tool

# When to use?

This tool is useful when:

- It is not needed a spatial data manipulation
- It is not needed queries

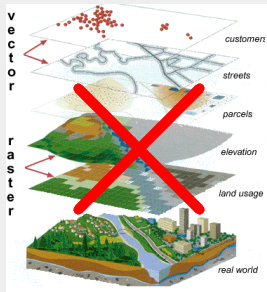


Figure: GIS model(adapted) Source ([www.landsurveys.net.au](http://www.landsurveys.net.au))

# Requirements

■ Python3

■ GDAL library



Figure: Requirements for using csv2shp

# Input File example

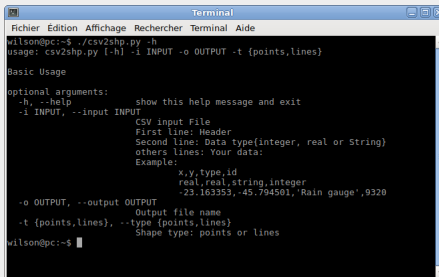
## CSV input file with header and data type

```
walk_points.csv x
1 id,x,y,degree,wdegree,pagerank,closeness,betweenness,cc,eigenvector,group
2 integer,real,real,integer,real,real,real,real,real,integer,
3 1717,730086.456813,7560530.33272,8,0,0.000966933614549456,0.001086267264391641,1633.0227098361697,0.42857142857142855,4.683340764456623e-05,0,
4 1718,731086.456813,7560530.33272,0,0,0.0001322168356109823,0.0005698005698005698,0,0,nan,0,0,1,
5 1719,732086.456813,7560530.33272,0,0,0.0001322168356109823,0.0005698005698005698,0,0,nan,0,0,2,
6 1720,733086.456813,7560530.33272,7,0,0.000962696029300196,0.0010859706094499255,4447.355868129286,0.2857142857142857,1.5701528851584582e-05,3,
7 1721,734086.456813,7560530.33272,7,0,0.0005983413565564801,0.0010854672398065714,54.983461870059706,0.7142857142857143,0.01445121547159615,4,
8 1722,735086.456813,7560530.33272,12,12,0.0006200125584852928,0.0010854370121644442,372.40926738963304,0.6515151515151515,0.2036182821723009,4,
9 1723,736086.456813,7560530.33272,26,26,0.0011023339119763781,0.0010856412494158643,4881.6631715777785,0.556923076923077,0.7443942158273174,5,
10 1724,737086.456813,7560530.33272,4,4,0.0004659227406036065,0.0010858321194588667,1081.9040254578815,0.5,0.04072319914995652,0,
```

Figure: Region of Nova Friburgo - Rio de Janeiro (Brazil)

# Usage

```
$ ./csv2shp.py -i input.csv -o output -t {points,lines}
```



```
Terminal
Fichier Edition Affichage Rechercher Terminal Aide
wilson@pc:~$ ./csv2shp.py -h
usage: csv2shp.py [-h] -i INPUT -o OUTPUT -t {points,lines}

Basic Usage

optional arguments:
  -h, --help            show this help message and exit
  -i INPUT, --input INPUT
                        CSV input File
                        First line: Header
                        Second line: Data type(integer, real or String)
                        others lines: Your data:
                        Example:
                             x,y,type,id
                             real,real,string,integer
                             -23.163353,-45.794501,'Rain gauge',9320
  -o OUTPUT, --output OUTPUT
                        Output file name
  -t {points,lines}, --type {points,lines}
                        Shape type: points or lines

wilson@pc:~$
```

Figure: Usage with -h (help parameter)

## Visualization with QGIS - Google Maps: Physical layer

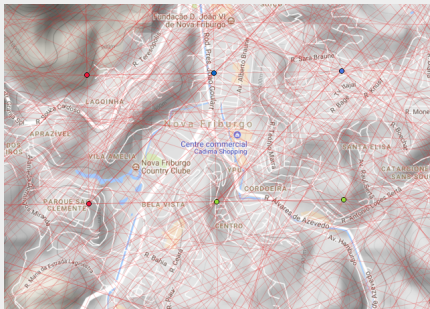


Figure: Region of Nova Friburgo - Rio de Janeiro (Brazil)



# Shape generated from the csv file

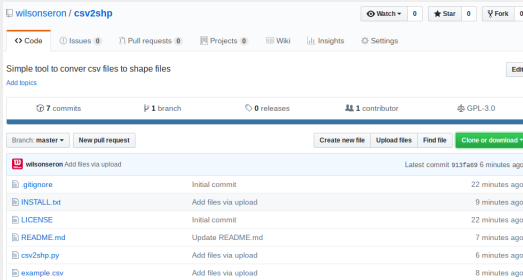
## Visualization with QGIS - Google Maps: satellite layer



**Figure:** Region of Nova Friburgo - Rio de Janeiro (Brazil)

# Download snapshot

<https://github.com/wilsonseron/csv2shp.git>



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7 commits 1 branch 0 releases 1 contributor GPL-3.0

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File	Commit Message	Time Ago
gitignore	Initial commit	22 minutes ago
INSTALL.txt	Add files via upload	9 minutes ago
LICENSE	Initial commit	22 minutes ago
README.md	Update README.md	7 minutes ago
csv2shp.py	Add files via upload	6 minutes ago
example.csv	Add files via upload	8 minutes ago

Figure: browse file tree (GitHub)

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