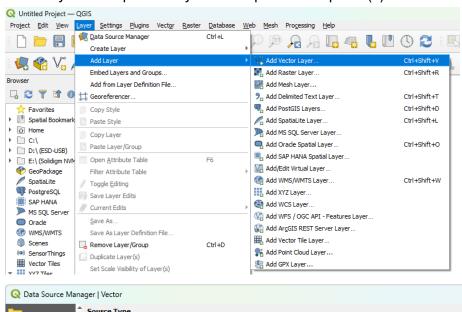
How to Run - placesWorld_CB.py within QGIS

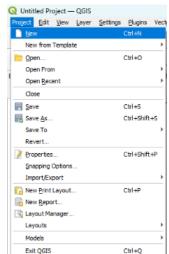
Step 1

Begin by opening QGIS 3.38.2-Grenoble, and make sure you have Python version 3.x installed. Navigate to *Project > New*, then click to create a new project.

Step 2

In your new project, navigate to Layer > Add Layer > Add Vector Layer. Click the ellipses next to Source > Vector Dataset(s), then browse your computer for your valid places shapefile(s).





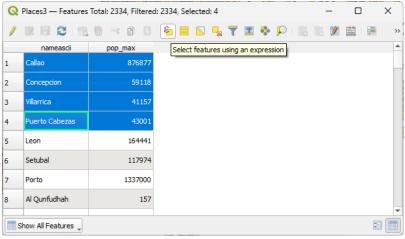


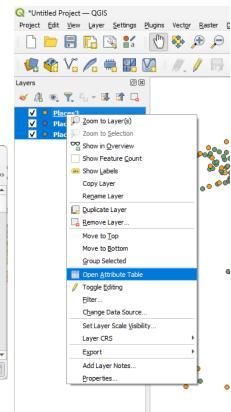
Step 3

Click on your selected layer(s) for analysis in the *Layers* pane to set it as your active layer. The layer should be highlighted blue once you have selected it.

Step 4

Select any points on the map you want to analyze via right clicking your selected layer(s) and clicking *Open Attribute Table*. From this screen you can use selection queries to select your desired points, or simply select manually by clicking on a row.

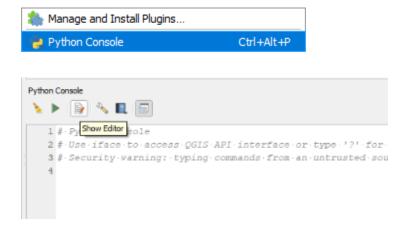


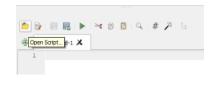


If no points are selected the script will default to all points available.

Step 5

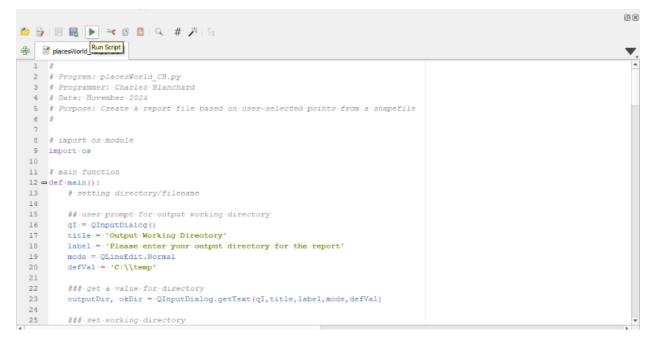
Save your project. Next, navigate to *Plugins > Python Console*. Click *Show Editor* within the Python Console. A new editor pane should open at the bottom right of your screen. Within the editor pane click *Open Script*. Browse to placesWorld_CB.py and open it.

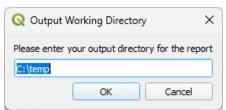




Step 6

Click Run Script. A window will open asking for an output working directory for your place report. Enter any valid Windows path to a folder and click **OK**.



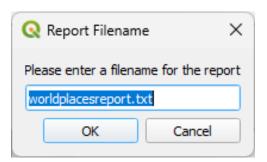




Caution: If you enter an invalid path the script will default to C:\temp. See **Appendix A** for examples of valid and invalid paths.

Step 7

Another window will open asking for a file name for the output report text file. Enter any Windows-permitted name for a file and click **OK**. If your file name does not contain a .txt extension, one will be appended to the end of the name.



Places of the World – Assignment 2 Documentation

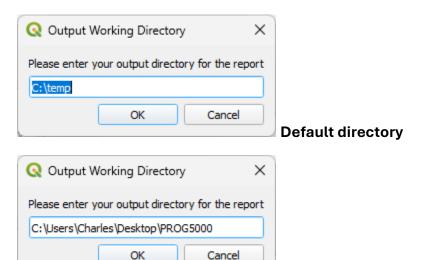
Step 8

A report file stating the number of selected places in each global quadrant as well as the total population by quadrant and highest/lowest population places will be created in your selected directory. Open this file in your text editor of choice and view your results! A selection of reports are located in **Appendix B** for further viewing.

Appendix A

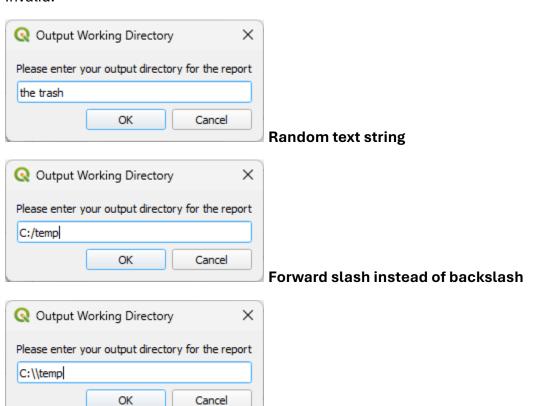
Examples of valid and invalid path names for output directory

Valid:



A copied path from an accesible folder

Invalid:



Double backslashes

Appendix B

Final Reports

Three different shapefiles selected as active layer; no points selected:

One shapefile selected as active layer; no points selected:

One shapefile selected as active layer; five points selected: