

## PROJECT

## Wrangle OpenStreetMap Data

A part of the Data Analyst Nanodegree Program

## PROJECT REVIEW

## CODE REVIEW

## NOTES

## SHARE YOUR ACCOMPLISHMENT!



## Requires Changes

## 3 SPECIFICATIONS REQUIRE CHANGES

Firstly you already have an excellent project report.  
Very neat and precise.  
You just need to fix some minor issues mentioned in this review.  
You have most of the things in place. You should be able to finish it in no time.  
Looking forward to your next submission. All the best!!

## Code Functionality

**Final project code functionality reflects the description in the project document.**

The project code functionality reflects the description in the project document.

## Code Readability

**Final project code follows an intuitive, easy-to-follow logical structure.**

Very well written code. The only reason am marking this section as **Requires Changes** is to give you an opportunity to upload the code as stand alone **.py** files. That way reviewers can insert comments directly into your code under the **Code Review** section. Also project guidelines requires code to be in stand alone **.py** files.

**Final project code that is not intuitively readable is well-documented with comments.**

Good job in commenting the code wherever necessary. Also using docstrings is a very good practice. However you can include more information in the docstrings like the input parameter details and return types.  
Below is a sample docstring:

```
def add_numbers(num1, num2):
    """
    Adds the given numbers
    Args:
        num1 (float): one of the two numbers
        num2 (float): one of the two numbers
    Returns:
        float: sum of the two numbers
    """
```

More details here <https://www.python.org/dev/peps/pep-0257/> and here <https://google.github.io/styleguide/pyguide.html?showone=Comments#Comments>

## Problems encountered in your map

**Student response shows understanding of the process of auditing, and ways to correct or standardize the data, including dealing with problems specific to the location, e.g. related to language or traditional ways of formatting.**

Very thorough auditing process. You have looked into a variety of issues. Nice job.

**Some of the problems encountered during data audit are cleaned programmatically.**

All the issues mentioned in the report are cleaned programmatically.

## Overview of the data

**The OSM XML file is at least 50 MB uncompressed.**

**Database queries are used to provide a statistical overview of the dataset, like:**

- size of the file
- number of unique users
- number of nodes and ways
- number of chosen type of nodes, like cafes, shops etc.

**Additional statistics not in the list above are computed. For SQL submissions some queries make use of more than one table.**

**The submission document includes the database queries and statistics from above.**

## Other ideas about the dataset

**Submission document includes one or more additional suggestions for improving and analyzing the data. The suggestions are backed up by at least one investigative query.**

One of the requirements of this project is to provide suggestions for improving and analyzing the data. Do not worry if the idea is difficult to implement or if it falls outside the scope of the project. We are just looking for innovative ways to improve the data. Following are some suggestions to get you started:

- Sample project has some good ideas: [https://gist.github.com/carlward/54ec1c91b62a5f911c42#file-sample\\_project-md](https://gist.github.com/carlward/54ec1c91b62a5f911c42#file-sample_project-md)
- How about using the popular game Pokemon Go to improve the dataset?
- Can we use third party tools like Google Maps API to improve the dataset?

These are just some of the ideas, feel free to come up with your own innovative idea.

**Submission document includes thoughtful discussion about the benefits as well as some anticipated problems in implementing the improvement.**

You are also required to include a discussion about the benefits as well as some anticipated problems in implementing the improvement. You can add two subsections as below:

**Benefits:**

- point1
- point2

**Anticipated Problems:**

- point1
- point2

## Thoroughness and Succinctness of Submission

**Submission document is long enough to thoroughly answer the questions asked without giving unnecessary detail. A good general guideline is that the question responses should take about 3-6 pages.**

You have very thorough report, yet very concise. It is to the point and written in a very straight forward language.

RESUBMIT



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