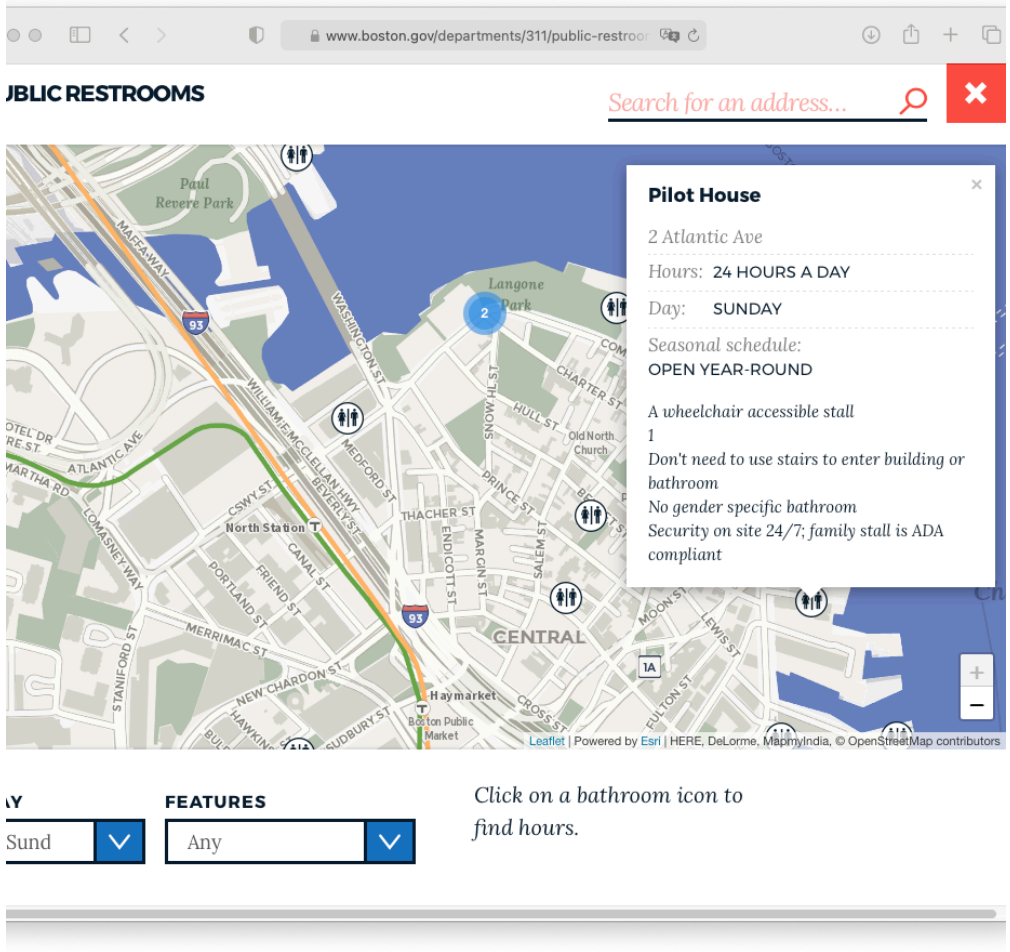
Coursera Capstone Project

by Anton Lischewski

Public Restrooms in Berlin



Agenda

1. Introduction
2. Data
3. Methodology
4. Results
5. Discussion

Introduction

Goal: Create a map showing the public restrooms in Berlin, capital of Germany

Requirements:

1. Analysis of the density of toilets in Berlin and Boston, MA
2. Marking of handicapped accessible restrooms
3. Comparison of the information provided by Foursquare on the two cities

Data

- Sources of data
  - Berlin government database
  - Boston government website
  - Foursquare database

- Data that has been used to fulfill the goal and the requirements
  - Name, address, and features of the restroom
  - Position
  - Accessibility

Methodology

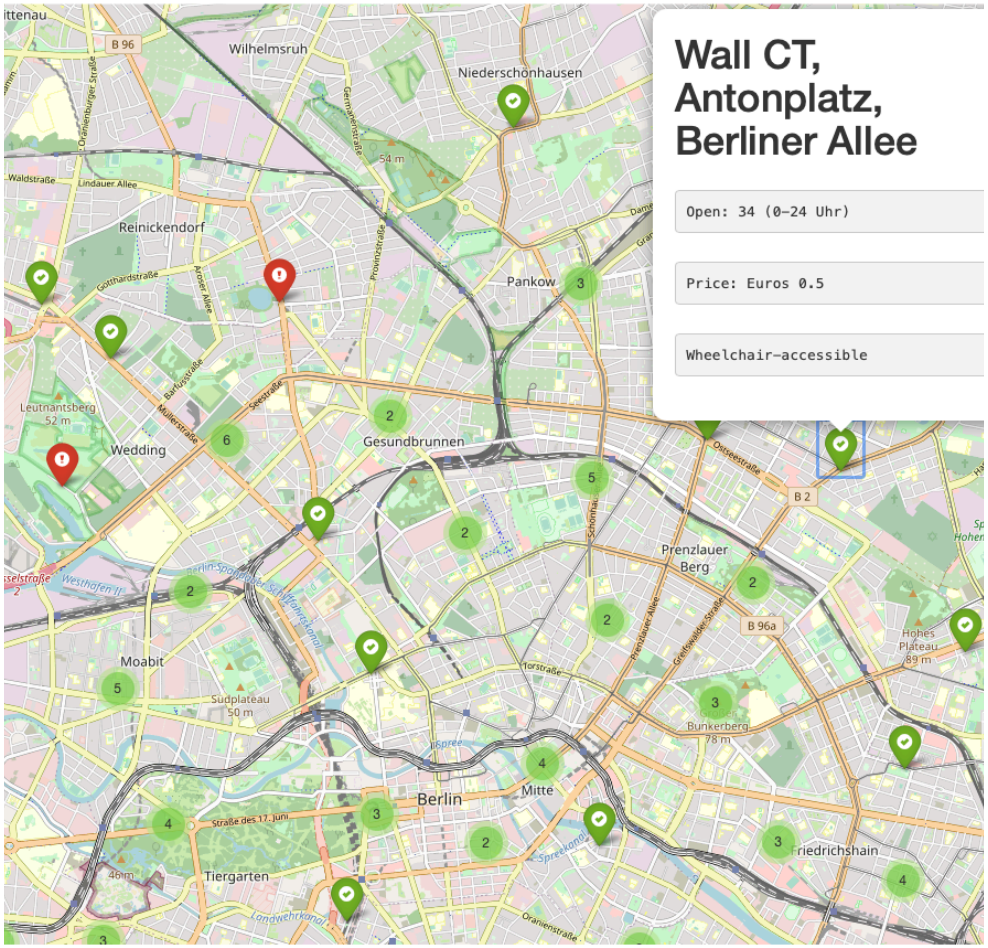
- Exploratory data analysis
- Folium library
- Access to Foursquare database via REST API

- No inferential data analysis
- No application of machine learning algorithms

Results

Goal accomplished

Requirements fulfilled,
except for “Comparison”



Discussion

- Showing a map of public restrooms in Berlin is possible with Python and publicly available data
- Foursquare's database lacks data on public restrooms (8 compared to 258 by gov.)
- Dataset of Boston's restrooms – similar to the one from Berlin – is not available to the public

- Berlin should also get a map as useful as the one by Boston's government