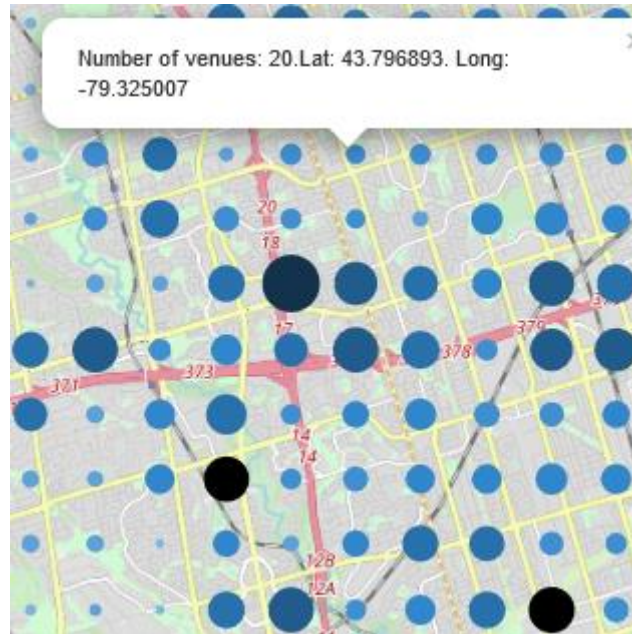


Quantity of venues by location

The goal of the project is to enter a location in the program and to find out what quantity of venues there are 1km around it and the quantity of venues in the other locations around it. It can be used for locations anywhere in the world.

Example:



The circle size visualizes the number of venues in 1km radius around it

The darker the circle, the more venues there are in a 1km radius around it

To click on the circle provides the number of venues and its exact position

Data used: *foursquare* to get the number of venues in a 1km radius of a location.

Methodology:

- Get a start location in latitude and longitude
- Starting from the start location, create a grid of points of locations with 1km between them. Save them as a list
- For each point, use *foursquare* to get the number of venues in a 1km radius of it
- Visualize the points of a map using *folium*. The size of each points depends on the number de venues near it.

Results/discussion:

The program can be used for location anywhere in the world. But it is important to keep in mind that *foursquare* might have more data about venues in English speaking countries. If

someone enter a location in the city center of Peking and nearly no venues are in the results, it doesn't mean that the center of Peking hasn't any venues, but rather, that not enough data are available in foursquare about the city. This is also why, it makes more sense to use it to compare the different parts of a city to each other, than to compare cities of different countries with each other. It is about searching the best location in one specific place.