Which city to chose for your next citytrip?

What problem to solve?

When you like to go on a city trip it's always difficult to chose which city will be next. If you like a city how can you then tell what is the next city that you will most likely en enjoy to visit. To make this choice easier all big city's in the world will be grouped on similarities. When someone has visited a city and enjoyed it they could choose a city to visit next from a similar group. The similarities wil be based on the venues that can be found within walking distance of there city center and added to the label of the interactive map.

The target audience is travel agencies ore people who are looking for a new city trip, based on previous preferences. By using a comprehensive list of al big city's in the world they could be given an advice that they otherwise would not have thought about.

what data to use?

First we wil define big city's as city's with a population of over 500.000. The website (https://worldpopulationreview.com/world-cities/) provides a comprehensive list of those city's. This data will be scraped form that website and provide a data frame that has a list of about 1100 city's and there total population.
For example: (Tokyo, Japan, 37.393.129)

Walking distance will be defined as 5km from the city center. The city center information will come from the geopy package and will consist of a latitude and longitude. To get this data wil wil I put the city's from the word-cities dataset.
For example: (Toronto, 43.65, -79.34)

We will ask the Foursquare API to provide a list of the top 1000 venues within the walking distance of the city center. This data will be analyzed, clustered and visualized on a word map. This data will consist of a coordinate that comes from the data from the geopy package.
For example: (43.65, -79.34, park, Chinese restaurant, bowling, etc.)