CAPSTONE PROJECT: BATTLE OF THE NEIGHBORHOODS
Recommendation for Gym / Fitness Center installation
Final Assignment: Capstone Project: Battle of Neighborhoods

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INTRODUCTION AND BUSINESS PROBLEM

Taking care of the body has become one of the biggest concerns of our century. Due the increased demand, more and more centers are created, which is leading to a tough competition.

The owner of one Gym / Fitness center in France, wants to settle in the United States. Due to USA high diversity and very large size, he asked me for help in order to find the best place for the installation of his Gym / Fitness center. The best locality is defined bases on the following criteria:

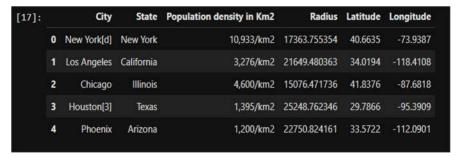
- Location with high average income.
- Location with high population rate.
- Near activity area such as park, playground etc.
- Near residential district, university/school and offices.
- low amount of competition (less or no gym / fitness centers around)

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DATA

we will need to access following data:

List of all the cities in United States with population density and coordinates
 https://en.wikipedia.org/wiki/List_of_United_States_cities_by_population
 Five first cities with their coordinate and population density



Plotting of all the cities of USA that we have extracted



List of all the cities in United States with Per Capita Income
 https://en.wikipedia.org/wiki/List of United States counties by per capita income



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Furthermore, we will use Foursquare (http://www.foursquare.com/) to get the venues in each city of United State:

- The high school venues of the Localities.
- The universities venues of the Localities.
- The offices venues of the Localities.
- The Gym / fitness of the localities.
- The park, playground of the localities.

After this step, data will be leverages in order to determine which locality is the most appropriate in order to find the best place