Battle of Neighborhoods

Problem description

The business activity within any local market tends to be unevenly distributed, some neighborhoods simply attract more activity than others. Economic development within a neighborhood also tends to have a direct impact on several measures of well-being among its residents.

So, for this reason a fitness expert who is trying to open an own Gym in Toronto, Canada wants to do analysis of the neighborhood in deciding the place to establish the business.

Data description

The list of neighborhoods in Toronto are fetched from the [Wikipedia page](#). Also, the latitude and longitude of these locations are added by using the geocoder package. By using the foursquare API, we can get a list of various venues that are present in each of the neighborhood. The steps to obtain data are as follows:

- We obtain top 100 venues of each neighborhood in 1000m radius.
  - Using this analyze most common top 10 places of each neighborhood.
  - Then cluster the neighborhoods.
  - From this clustering we can decide on a subset of neighborhoods for consideration.
- Once we have the first subset of neighborhoods, then we fetch the details of venues which offer physical fitness such as gyms, yoga studios, spas, pools etc.
  - From this data we can analyze and cluster each neighborhood with what type of venues they have and give out a well data backed judgement of the locality to open a gym.