The Battle of Neighborhoods

**Background**

There are persons traveling around the world where they want to know if the cities are similar to the ones, they live in. People are everyday moving to different cities or countries. How will they know what is similar to their neighborhood? And what factors affect this similarity, this feeling of “similarity” can be quite subjective. In order to try to answer this, the approach is slightly modified. The question we ask instead is, what characteristics make a neighborhood good? Looking through countless of articles about “characteristics of a good neighborhood” we quickly find that there are too many factors to consider. To limit the scope of the study only the factors below are included:

1. The close by venues which directly influence the type of activities possible.
2. The crime rate because people want to feel safe.
3. The cost of living there.
4. The weather, as it is affecting what activities are popular.

**Data**  
The cities that will be considered is Toronto and New York. The names of these cities’ neighborhoods are data used in Coursera. Where myGeocoder will be used to acquire their geodata.  
  
First is Foursquare. An API giving venue data such as type of venues (restaurant and what type, climb center, etc.), names, ratings, etc based on geographical data. For example, will data of top 10 most common venues by geographical data will be included.

Second is the Police data sources corresponding to the areas. Data included are what kind of crime, date, time, location. Downloadable crimes data, for deciding crime density. For example, will the total number of crimes be counted within the vicinity will be used.

Third is Airbnb data. Downloadable data of renting prices of apartments and houses by location data. For example, will average renting price in the vicinity be used to estimate relative housing prices.

Fourth is Openweathermap. An API with weather data like type of weather, aggregates over time, Realtime updates, based on coordinates. Where the last 5 days most common weather type and mean temperature will be included, to roughly estimate weather.