

# Battle of Neighborhoods Description

## 1st Part

### Introduction/Business Problem

For this specific problema or situation, we would like to group the different neighborhood in the city by segmenting the different venues in a neighborhood by its venue category, and consequently group neighborhoods together that incorporate similar kind of neighborhoods. By grouping all the similar kinds of neighborhood, this will help us to know which places to consider when a person wants to move out to another area.

By identifying identical neighborhood in different cities this will help people feel more like home and make better decision on which neighborhood to choose base on data driven analysis.

### Data

For this Project we will use two data bases (NY and Toronto) that contains information such as neighborhoods, coordinates and postcodes. Before doing the analysis, it was important to clean the data and put it in a proper format to continue. Many of this job was done in the previous projects of this course. After finishing with data wrangling, we proceeded to come up with different venues that the different venues have to offer in both cities. To retrieve venue information, we used the Foursquare API where we found common features for different shops, restaurants and many others; where we decided to create one table with both information to perform a cluster analysis later on.