

# Comparing big multicultural city neighborhoods

February 2, 2020





## Why is it important?

Comparing counties/cities based on social and economical factors is important for people of wide spectrum of domains

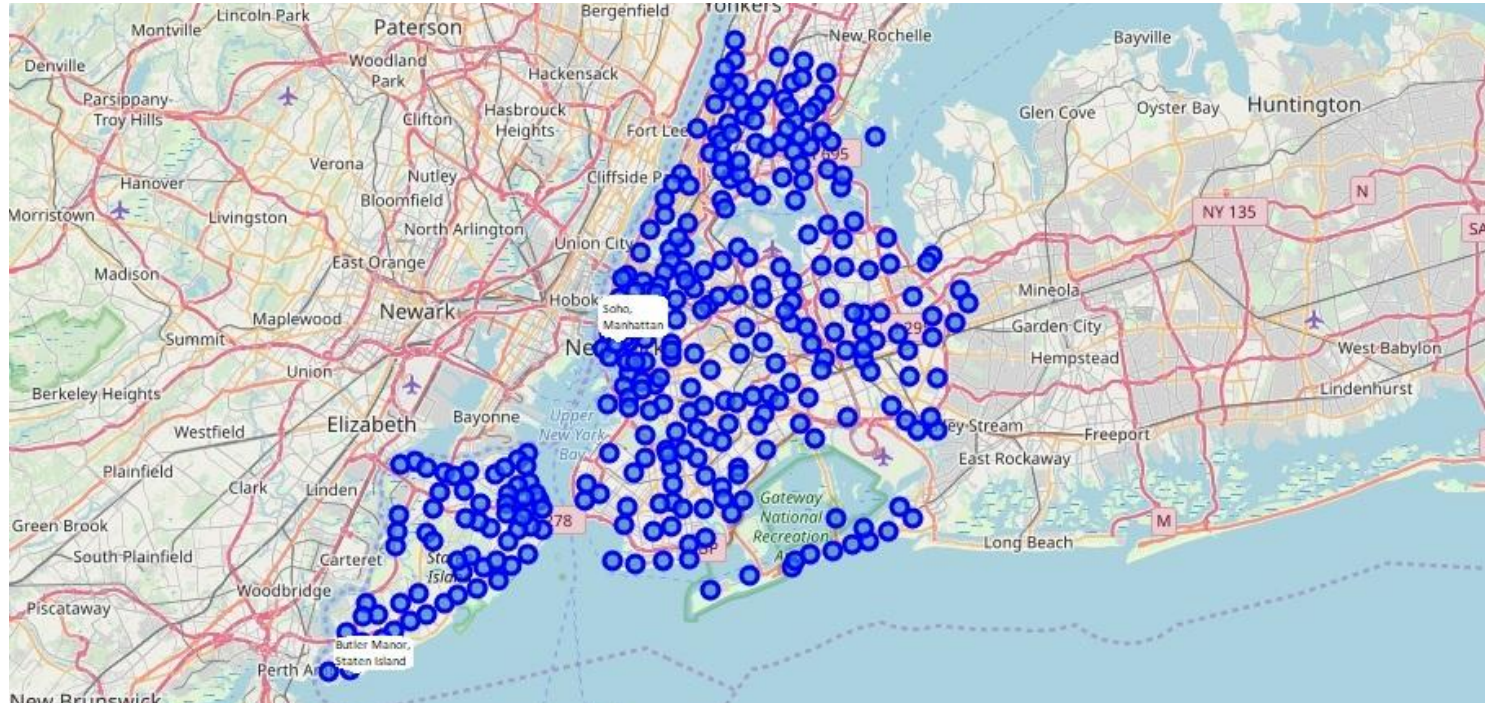
- in order to track progress over time
- to use as guidelines as to what needs improvement
- to track progress in comparison with countries in other regions, continents or ones belonging to specific international organizations like NATO, EU etc



# Data acquisition and cleaning

- New York
  - [https://cocl.us/new\\_york\\_dataset](https://cocl.us/new_york_dataset)
  - Foursquare venues API
- Toronto
  - [https://en.wikipedia.org/wiki/List\\_of\\_postal\\_codes\\_of\\_Canada:\\_M](https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M)
  - [Geospatial\\_Coordinates.csv](#)
  - Foursquare venues API

# Visualising neighborhood locations - New York



# Visualising neighborhood locations - Toronto





# Comparing the neighborhoods by most venue categories

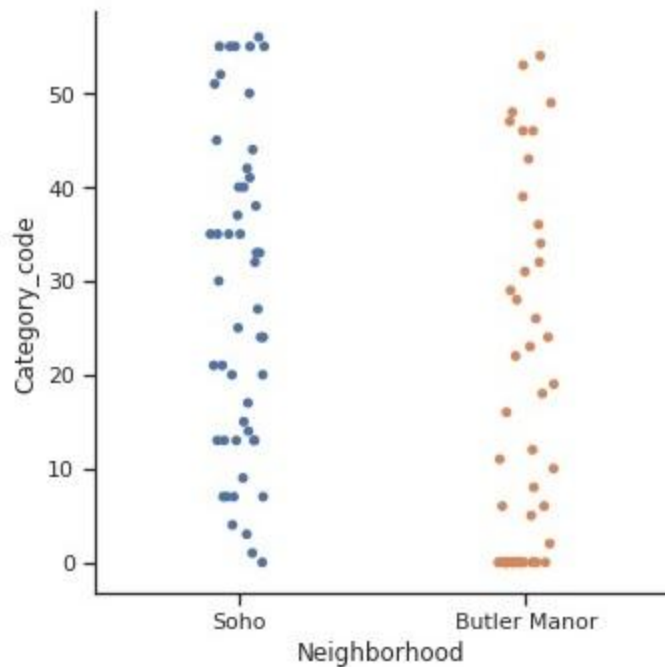
- Center neighborhoods

- Office
- Park
- Pizza Place
- Woman's and Men's Stores
- Yoga Studio
- Cafes
- Clothing Stores

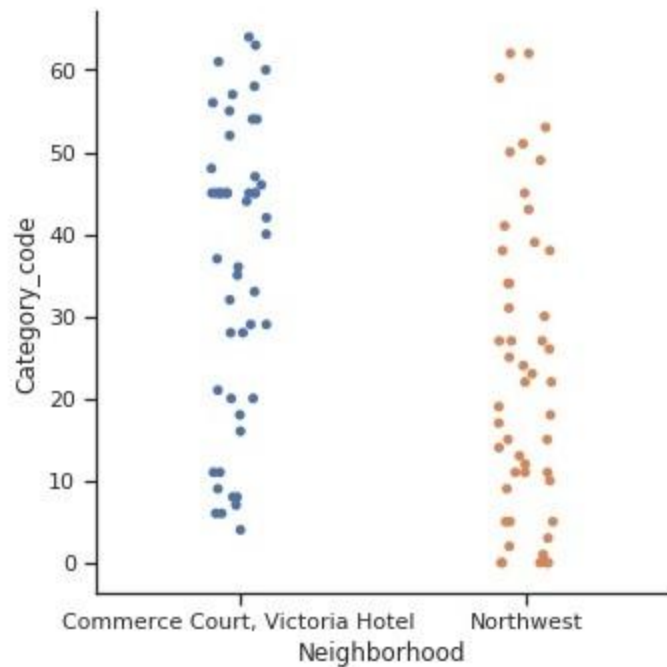
- Neighborhoods in the outskirts

- Doctor's office
- Dentist's office
- Drugstore
- Airport
- Hardware Store
- Grocery Store
- Medical Center

**New York**



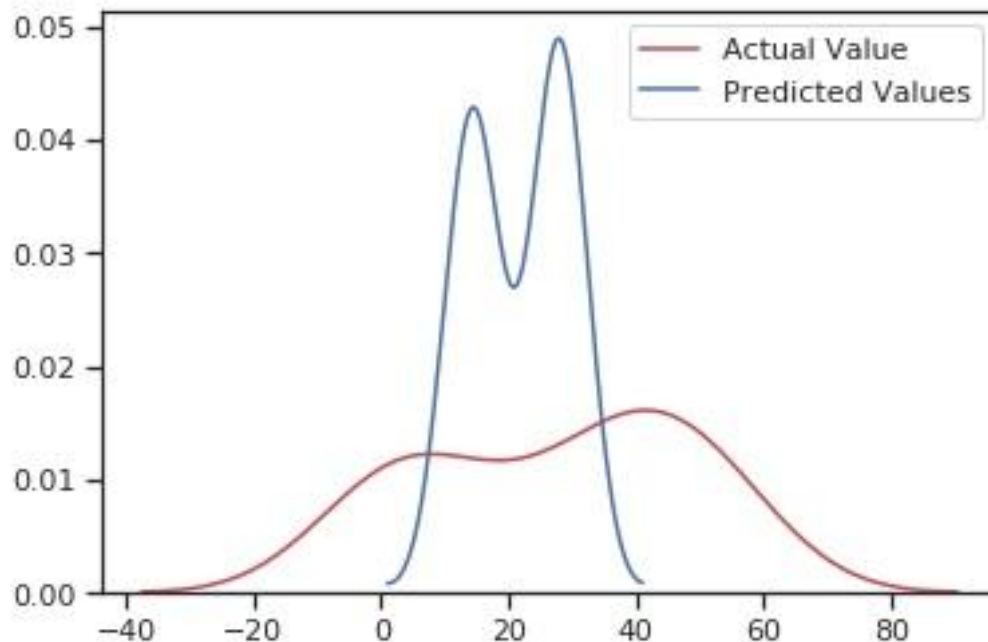
**Toronto**





# Exploring prediction model

Venue categories based on distance from city center







# Conclusion

1. There is an clear relationship between a venue location in the city and what category it would fit in
2. With the limitation of the current data it was impossible to create a predictive model to categorize a venue based on distance