

BATTLE OF NEIGHBORHOODS

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INTRODUCTION

Backgrounds

- 1. The booming of health industry & its related businesses in NA
- 2. Soaring awareness of personal healthcare & healthy lifestyles
- 3. Growth momentum of cannabis industry

Business problems

- 1. Cannabis related health products: New York City vs. Toronto
- 2. Neighborhood layout & popularity
- 3. Promising locations for starter business

DATA DRIVEN THINKING

Sources:

- 1. Foursquare API FOURSQUARE DEVELOPERS
- 2. Other web resources: e.g. Wikipedia



Processes:

- 1. Acquisition: GET() queries
- 2. Cleansing
- 3. Data uniqueness
- 4. Normalization/Standardization

DATA DRIVEN THINKING

Data acquisition

Keywords of feature venues of interests

Healthy lifestyles

- Gym
- Vegan
- Sports

Openness to natural herbs

- Nightclub
- Hookah lounges

Location convenience

Distance to centroid

EXPLORATORY ANALYSIS

Breakdown of venues

Similarities:

Gym, Sporting goods

Differences:

NYC: mostly gym, sports

NYC: flattened layout

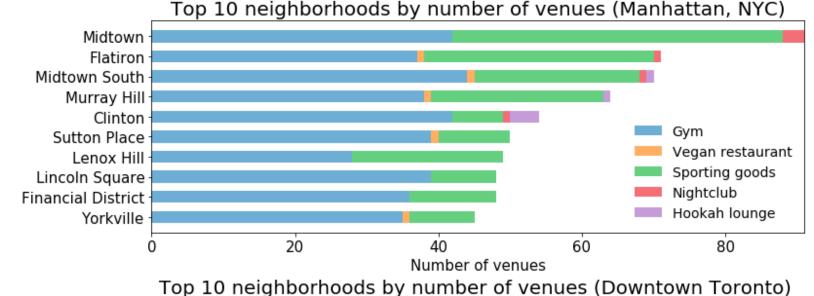
Toronto: nightclub & others

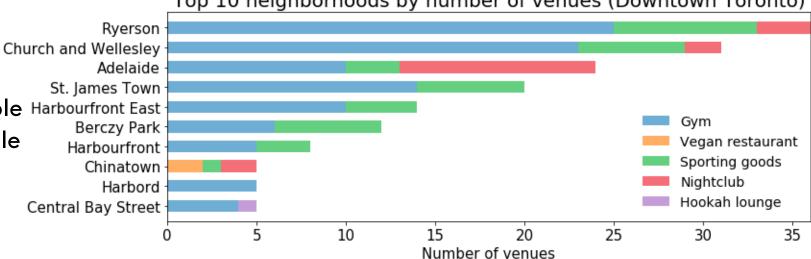
Toronto: more concentrated

Per population:

Manhattan: 6.77 per 10,000 people Harbourfront East

DT Toronto: 6.48 per 10,000 people



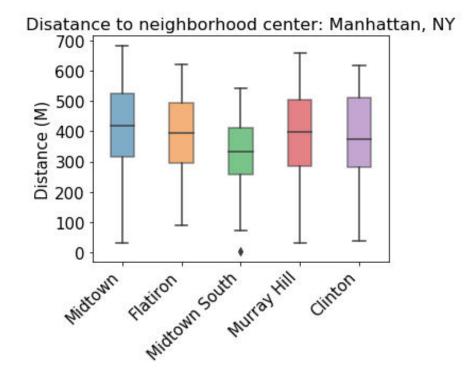


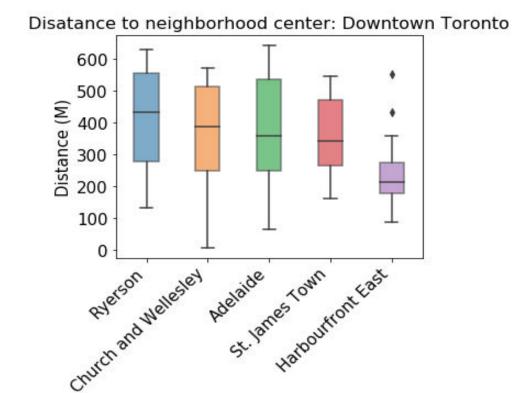
EXPLORATORY ANALYSIS

Location convenience

Findings:

top neighborhoods show similar convenience of feature venues

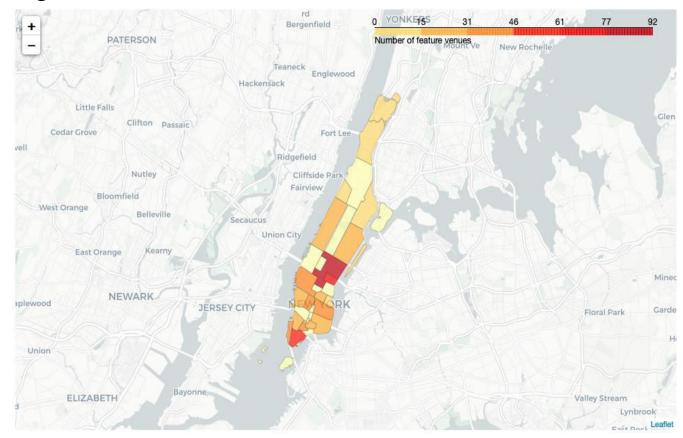




EXPLORATORY ANALYSIS

Distribution of venues (Manhattan)

Popular neighborhoods: Midtown, Flatiron, Midtown South, etc.

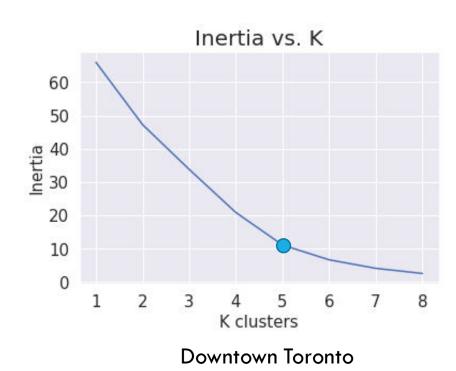


PREDICTIVE MODELING

Clustering model: K-Means

Study of K clusters





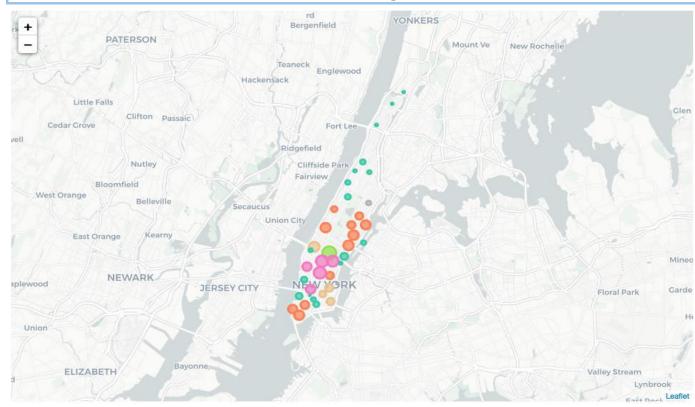
PREDICTIVE MODELING

Results discussion – Best hubs in Manhattan

Tier 10 docations: Midtown, 10 Chelsea, 11 Midtown 15 outh, 17 latiron 12

Tier @ locations: @ Clinton, **m** ast **@** / illage, **m** ower **m** ast **@** ide, **m** oho **@**

Tier Greenwich Willage

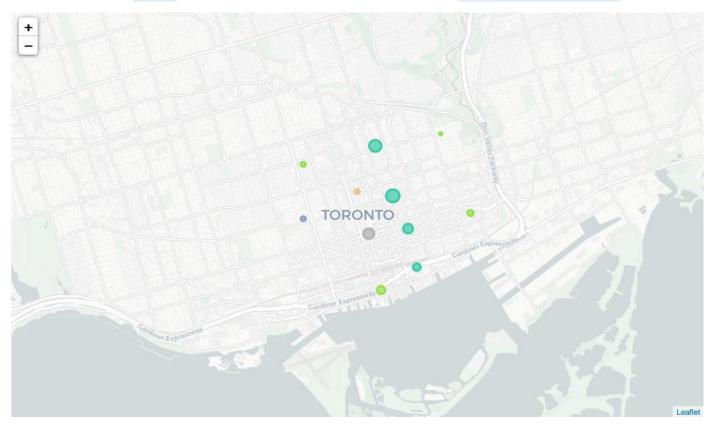


PREDICTIVE MODELING

Results discussion – Best hubs in Downtown Toronto

Tieralocations: Ryerson, St. ames Town, Berczy Park, Church & Wellesley?

Tieralocations: Adelaide?



CONCLUSIONS

- New York vs. Toronto: similar business opportunities given population differences
- Exploratory analysis: prime locations near Midtown & nearby neighborhoods
- Nightclubs in Adelaide of Toronto & nearby areas
- Clustering of neighborhoods confirms top tier business hubs