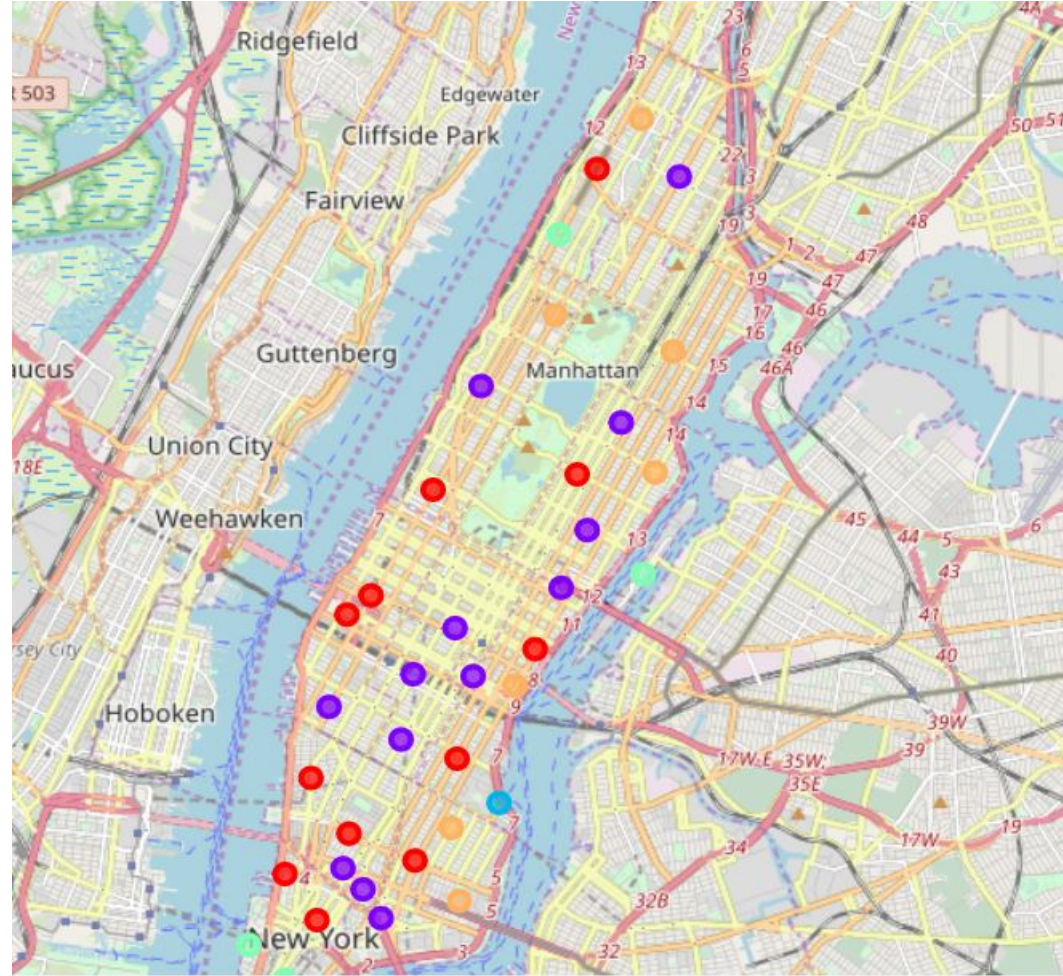


# Exploring common venues in Manhattan, NY and Toronto, CA

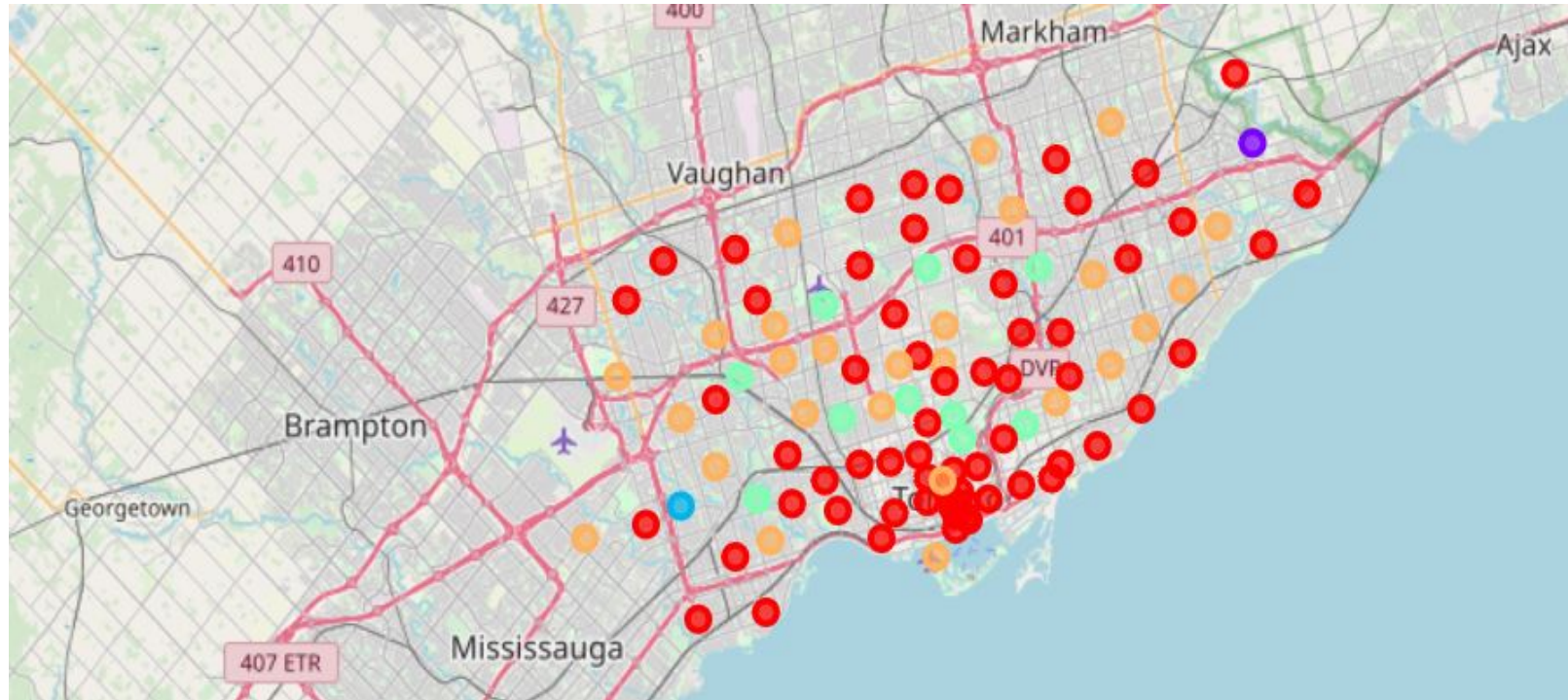
Pictures of Manhattan, NY and Toronto, CA



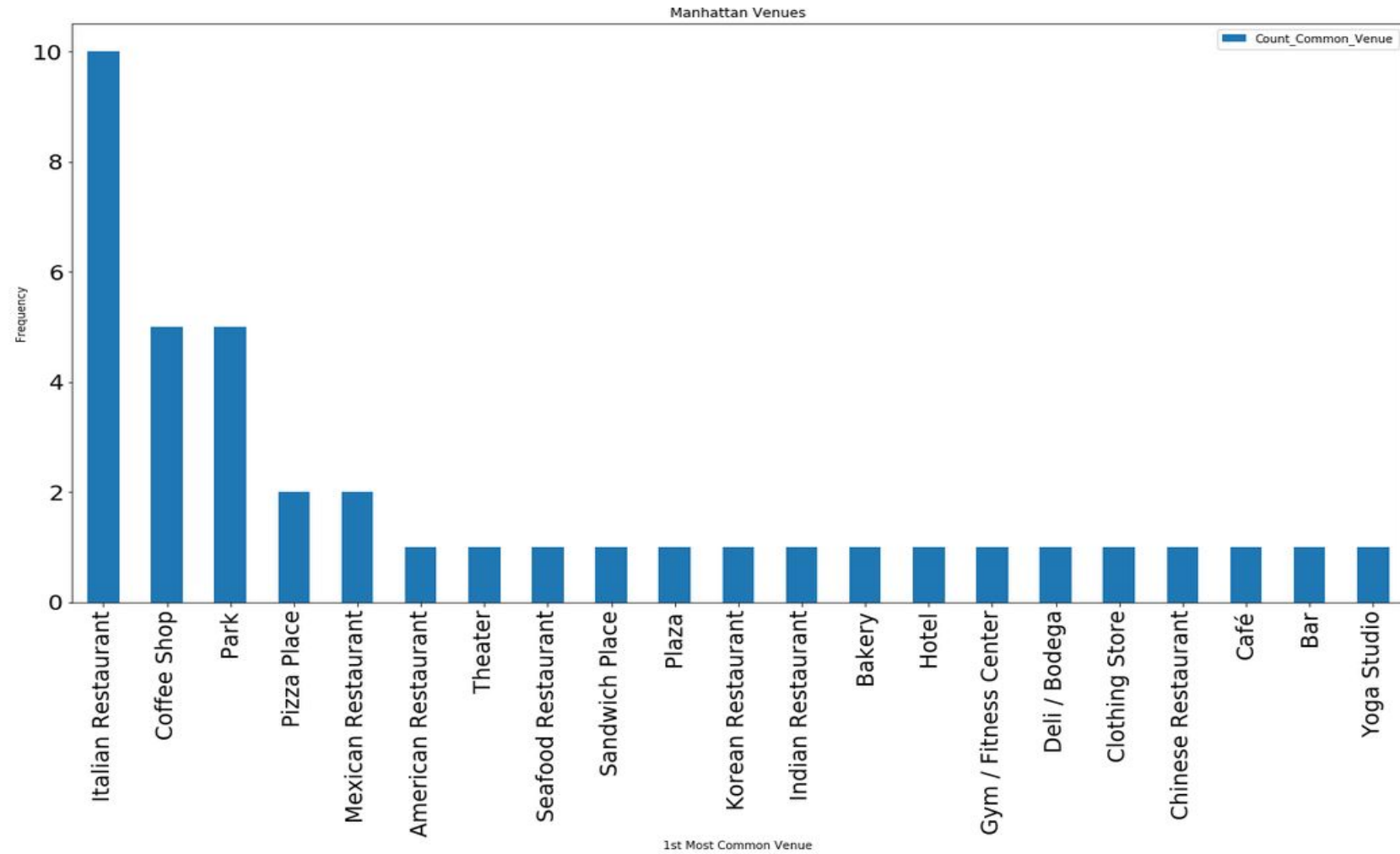
Using K-means clustering to cluster Manhattan, NYC neighborhoods by common venues



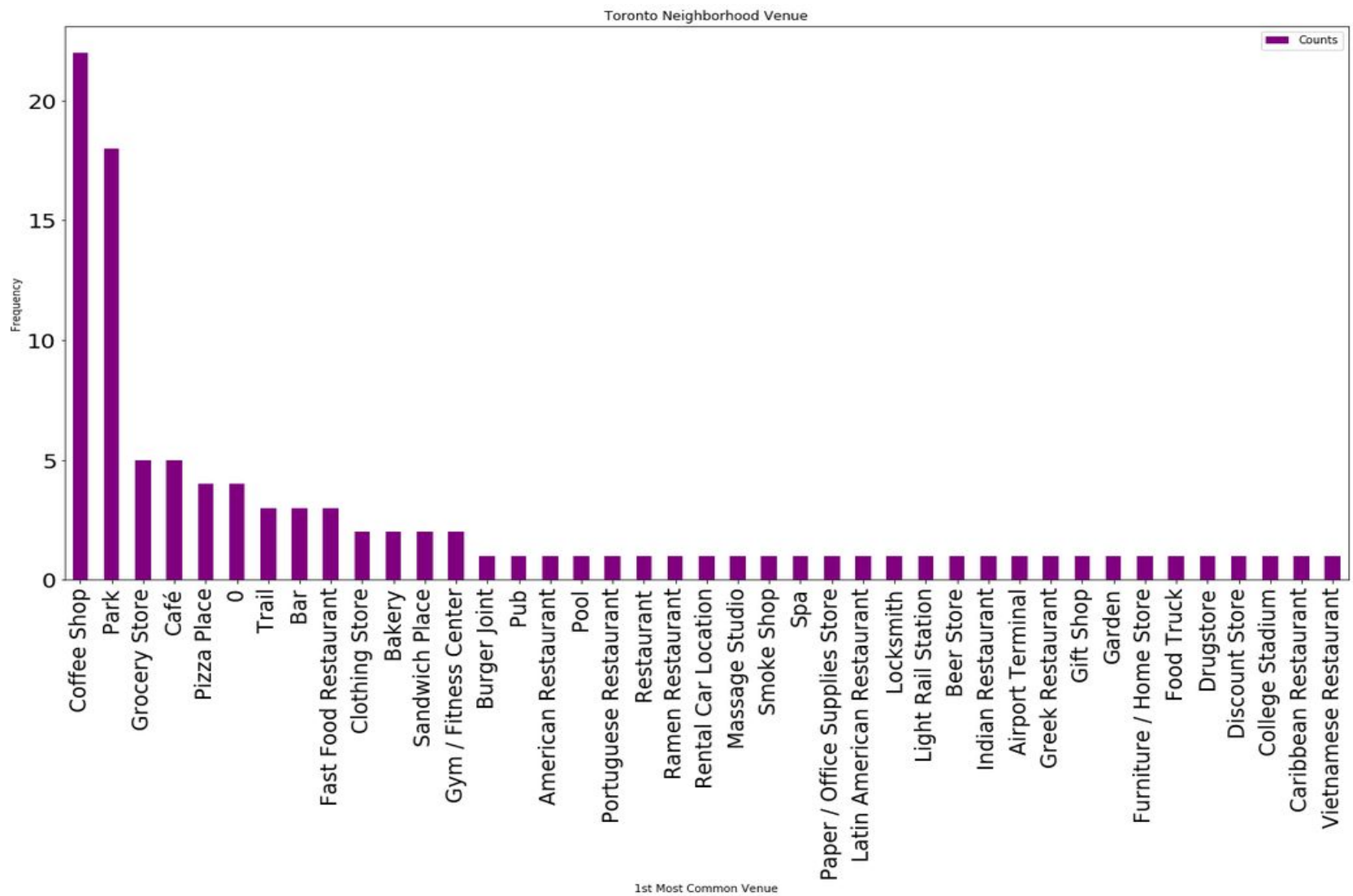
Using k-means clustering to cluster Toronto, CA neighborhoods by common venues



## Most common venues in Manhattan, NYC




Most common venues in Toronto, Canada






## Neighborhoods close to venues of my interest in Manhattan, New York

```
In [87]:  #Getting the neighborhoods of Manhattan for the top 4 most common venues
# list_top_venues based on my interests
list_top_venues = ['Park', 'Boat or Ferry', 'Yoga Studio', 'Gym / Fitness Center']
print('-----')
for venue in list_top_venues:
    print('The nearest neighborhood to the ' + venue + ' is : ')
    locator = manhattan_new.loc[manhattan_new['1st Most Common Venue'] == venue]
    print(locator['Neighborhood'].values)
    print('-----')

-----
The nearest neighborhood to the Park is :
['Morningside Heights' 'Battery Park City' 'Tudor City']
-----
The nearest neighborhood to the Boat or Ferry is :
['Stuyvesant Town']
-----
The nearest neighborhood to the Yoga Studio is :
['Flatiron']
-----
The nearest neighborhood to the Gym / Fitness Center is :
['Civic Center']
-----
```

## Neighborhoods close to venues of my interest in Toronto, Canada

```
In [85]:  #Getting the neighborhoods for the top 4 most common venues
# list_top_venues based on my interests
list_top_venues = ['Gym / Fitness Center', 'Park', 'Trail', 'Pool']
print('-----')
for venue in list_top_venues:
    print('The nearest neighborhood to the ' + venue + ' is : ')
    locator = toronto_new_df.loc[toronto_new_df['1st Most Common Venue'] == venue]
    print(locator['Neighborhood'].values)
    print('-----')
```

```
-----
The nearest neighborhood to the Gym / Fitness Center is :
['Don Mills North' 'Downsview Northwest']
```

```
-----
The nearest neighborhood to the Park is :
["Agincourt North, L'Amoreaux East, Milliken, Steeles East"
'York Mills West' 'Parkwoods' 'CFB Toronto, Downsview East'
'East Toronto' 'Lawrence Park' 'Moore Park, Summerhill East' 'Rosedale'
'Forest Hill North, Forest Hill West' 'Caledonia-Fairbanks'
'Downsview, North Park, Upwood Park' 'Weston']
```

```
-----
The nearest neighborhood to the Trail is :
['The Beaches' 'Humewood-Cedarvale']
```

```
-----
The nearest neighborhood to the Pool is :
['Hillcrest Village']
-----
```

