

# The Battle of Neighborhoods - Week 2

## Problem Background:

The City of New York, is the most populous city in the United States. It is diverse and is the financial capital of USA. It is multicultural. It provides lot of business oppourtunities and business friendly environment. It has attracted many different players into the market. It is a global hub of business and commerce. The city is a major center for banking and finance, retailing, world trade, transportation, tourism, real estate, new media, traditional media, advertising, legal services, accountancy, insurance, theater, fashion, and the arts in the United States.

This also means that the market is highly competitive. As it is highly developed city so cost of doing business is also one of the highest. Thus, any new business venture or expansion needs to be analysed carefully. The insights derived from analysis will give good understanding of the business environment which help in strategically targetting the market. This will help in reduction of risk. And the Return on Investment will be reasonable.

Your friend has spent many years working at various cafes and would like to check various options of setting up a cafe in the neighborhood of the Manhattan or Bronx.

You want to team up with your friend to open up a cafe that serves you know will be successful IF you can get people in the door.

Humans are creatures of habit and you know that because there are many great coffee shops, you will have to open up your store near existing cafes. The reason why it has to be near an existing cafe is that it will reduce marketing costs - people will come to the area for coffee.

You are deciding whether to open up the cafe in Manhattan or in the Bronx. We explored Manhattan in module 3, this capstone will explore clusters in Bronx to see if Cafes are in the top categories of any clusters.

A restaurant is a business which prepares and serves food and drink to customers in return for money, either paid before the meal, after the meal, or with an open account. The City of New York is famous for its excellent cuisine. Its food culture includes an array of international cuisines influenced by the city's immigrant history.

Central and Eastern European immigrants, especially Jewish immigrants - bagels, cheesecake, hot dogs, knishes, and delicatessens Italian immigrants - New York-style pizza and Italian cuisine Jewish immigrants and Irish immigrants - pastrami and corned beef Chinese and other Asian restaurants, sandwich joints, trattorias, diners, and coffeehouses are ubiquitous throughout the city mobile food vendors - Some 4,000 licensed by the city Middle Eastern foods such as falafel and kebabs examples of modern New York street food It is famous for not just Pizzerias, Cafe's but also for fine dining Michelin starred restaurants. The city is home to "nearly one thousand of the finest and most diverse haute cuisine restaurants in the world", according to Michelin. So it is evident that to survive in such competitive market it is very important to strategically plan. Various factors need to be studied in order to decide on the Location such as :

New York Population New York City Demographics Are there any Farmers Markets, Wholesale markets etc nearby so that the ingredients can be purchased fresh to maintain quality and cost? Are there any venues like Gyms, Entertainment zones, Parks etc nearby where floating population is high etc Who are the competitors in that location? Cuisine served / Menu of the competitors Safest neighborhood for individuals and family with kids Segmentation of the Borough Untapped markets Saturated markets etc

## Data requirement

In order to solve this problem, I will need a list of all neighbourhoods in NYC (from here - [https://geo.nyu.edu/catalog/nyu\\_2451\\_34572](https://geo.nyu.edu/catalog/nyu_2451_34572) ([https://geo.nyu.edu/catalog/nyu\\_2451\\_34572](https://geo.nyu.edu/catalog/nyu_2451_34572))). I will need to build a data frame and find venues for each neighbourhood. Then find the coordinates and filter by just the venues in Bronx before using the k-means to clusters.

## Target Audience:

To recommend the correct location, "Coffee Cafe Company" has appointed me to lead of the Data Science team. The objective is to locate and recommend to the management which neighborhood of New York city will be best choice to start a restaurant. The Management also expects to understand the rationale of the recommendations made.

This would interest anyone who wants to start a new restaurant in New York city.

## Success Criteria:

The success criteria of the project will be a good recommendation of borough/Neighborhood choice to "Coffee Cafe Company" based on lack of such cafes in that location and nearest suppliers of ingredients.

## Week 2 - Data Analysis

# Methodology and Exploratory Data Analysis

The Data Science Workflow for parts 3 & 4 includes:

### 1.Data Analysis and Location Data:

Foursquare location data will be leveraged to explore or compare districts around Paris.

Data manipulation and analysis to derive subsets of the initial data.

Identifying the high traffic areas using data visualisation and statistical analysis.

### 2.Visualization:

Analysis and plotting visualizations.

Data visualization using various mapping libraries.

### 3.Discussion and Conclusions:

Recommendations and results based on the data analysis.

Discussion of any limitations and how the results can be used, and any conclusions that can be drawn.

```
In [10]: import numpy as np # Library to handle data in a vectorized manner

import pandas as pd # Library for data analysis
pd.set_option('display.max_columns', None)
pd.set_option('display.max_rows', None)

import json # Library to handle JSON files

#!conda install -c conda-forge geopy --yes # uncomment this line if you have
n't completed the Foursquare API Lab
from geopy.geocoders import Nominatim # convert an address into latitude and longitude values

import requests # Library to handle requests
from pandas.io.json import json_normalize # transform JSON file into a pandas dataframe

# Matplotlib and associated plotting modules
import matplotlib.cm as cm
import matplotlib.colors as colors

# import k-means from clustering stage
from sklearn.cluster import KMeans

!conda install -c conda-forge folium=0.5.0 --yes # uncomment this line if you
haven't completed the Foursquare API lab
import folium # map rendering library

print('Libraries imported.')
```

Solving environment: done

## Package Plan ##

environment location: /opt/conda/envs/Python36

added / updated specs:

- folium=0.5.0

The following packages will be downloaded:

package	build		
python_abi-3.6	1_cp36m	4 KB	conda-forge
certifi-2020.4.5.1	py36h9f0ad1d_0	151 KB	conda-forge
openssl-1.1.1g	h516909a_0	2.1 MB	conda-forge
vincent-0.4.4	py_1	28 KB	conda-forge
folium-0.5.0	py_0	45 KB	conda-forge
branca-0.4.1	py_0	26 KB	conda-forge
altair-4.1.0	py_1	614 KB	conda-forge
ca-certificates-2020.4.5.1	hecc5488_0	146 KB	conda-forge
Total:		3.1 MB	

The following NEW packages will be INSTALLED:

altair:	4.1.0-py_1	conda-forge
branca:	0.4.1-py_0	conda-forge
folium:	0.5.0-py_0	conda-forge
python_abi:	3.6-1_cp36m	conda-forge
vincent:	0.4.4-py_1	conda-forge

The following packages will be UPDATED:

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conda-forge		
openssl:	1.1.1g-h7b6447c_0	--> 1.1.1g-h516909a_0
conda-forge		

Downloading and Extracting Packages

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altair-4.1.0	614 KB	#####	10

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0%
ca-certificates-2020 | 146 KB      | ##### | 10
0%
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
Libraries imported.
```

```
In [11]: !wget -q -O 'newyork_data.json' https://coc1.us/new_york_dataset
print('Data downloaded!')
```

Data downloaded!

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In [12]: with open('newyork_data.json') as json_data:
          newyork_data = json.load(json_data)

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    'annoline2': 'City',
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    'annoline3': None,
    'annoangle': 0.0,
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    'annoangle': 0.0,
    'borough': 'Queens',

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```



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```

```

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'annoline3': None,
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'annoline3': None,
'annoangle': 0.0,
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```

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'annoline3': None,
'annoangle': 0.0,
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'annoline3': None,
'annoangle': 0.0,
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40.64692606658579]}},
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'annoangle': 0.0,

```

```

    'borough': 'Queens',
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   'properties': {'name': 'Bayswater',
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    'annoline1': 'Bayswater',
    'annoline2': None,
    'annoline3': None,
    'annoangle': 0.0,
    'borough': 'Queens',
    'bbox': [-73.76596781445627,
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    -73.76596781445627,
    40.611321691283834]}},
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    'annoline3': None,
    'annoangle': 0.0,
    'borough': 'Queens',
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    -73.94563070334091,
    40.756091297094706]}},
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   'id': 'nyu_2451_34572.306',
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    'annoline2': 'Hills',
    'annoline3': None,
    'annoangle': 0.0,
    'borough': 'Staten Island',
    'bbox': [-74.08173992211962,
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    -74.08173992211962,
    40.61731079252983]}},
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  'bbox': [-74.2492599487305,
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```

```
-73.7061614990234,
40.9105606079102]]}
```

```
In [13]: neighborhoods_data = newyork_data['features']
neighborhoods_data[0]
```

```
Out[13]: {'type': 'Feature',
'id': 'nyu_2451_34572.1',
'geometry': {'type': 'Point',
'coordinates': [-73.84720052054902, 40.89470517661]},
'geometry_name': 'geom',
'properties': {'name': 'Wakefield',
'stacked': 1,
'annoline1': 'Wakefield',
'annoline2': None,
'annoline3': None,
'annoangle': 0.0,
'borough': 'Bronx',
'bbox': [-73.84720052054902,
40.89470517661,
-73.84720052054902,
40.89470517661]}}
```

```
In [14]: # define the dataframe columns
column_names = ['Borough', 'Neighborhood', 'Latitude', 'Longitude']

# instantiate the dataframe
neighborhoods = pd.DataFrame(columns=column_names)
```

```
In [15]: for data in neighborhoods_data:
    borough = neighborhood_name = data['properties']['borough']
    neighborhood_name = data['properties']['name']

    neighborhood_latlon = data['geometry']['coordinates']
    neighborhood_lat = neighborhood_latlon[1]
    neighborhood_lon = neighborhood_latlon[0]

    neighborhoods = neighborhoods.append({'Borough': borough,
                                          'Neighborhood': neighborhood_name,
                                          'Latitude': neighborhood_lat,
                                          'Longitude': neighborhood_lon}, ignore_index=True)
```

```
In [16]: neighborhoods.head()
```

```
Out[16]:
```

	Borough	Neighborhood	Latitude	Longitude
0	Bronx	Wakefield	40.894705	-73.847201
1	Bronx	Co-op City	40.874294	-73.829939
2	Bronx	Eastchester	40.887556	-73.827806
3	Bronx	Fieldston	40.895437	-73.905643
4	Bronx	Riverdale	40.890834	-73.912585

```
In [17]: address = 'New York City, NY'

geolocator = Nominatim(user_agent="ny_explorer")
location = geolocator.geocode(address)
latitude = location.latitude
longitude = location.longitude
print('The geograpical coordinate of New York City are {}, {}'.format(latitude, longitude))
```

The geographical coordinate of New York City are 40.7127281, -74.0060152.

```
In [18]: # create map of New York using Latitude and Longitude values
map_newyork = folium.Map(location=[latitude, longitude], zoom_start=10)

# add markers to map
for lat, lng, borough, neighborhood in zip(neighborhoods['Latitude'], neighborhoods['Longitude'], neighborhoods['Borough'], neighborhoods['Neighborhood']):
    label = '{} {}'.format(neighborhood, borough)
    label = folium.Popup(label, parse_html=True)
    folium.CircleMarker(
        [lat, lng],
        radius=5,
        popup=label,
        color='blue',
        fill=True,
        fill_color='#3186cc',
        fill_opacity=0.7,
        parse_html=False).add_to(map_newyork)

map_newyork
```

Out[18]: Make this Notebook Trusted to load map: File -> Trust Notebook

```
In [19]: bronx_data = neighborhoods[neighborhoods['Borough'] == 'Bronx'].reset_index(drop=True)
bronx_data.head()
```

Out[19]:

	Borough	Neighborhood	Latitude	Longitude
0	Bronx	Wakefield	40.894705	-73.847201
1	Bronx	Co-op City	40.874294	-73.829939
2	Bronx	Eastchester	40.887556	-73.827806
3	Bronx	Fieldston	40.895437	-73.905643
4	Bronx	Riverdale	40.890834	-73.912585

```
In [20]: address = 'Bronx, NY'

geolocator = Nominatim(user_agent="ny_explorer")
location = geolocator.geocode(address)
latitude = location.latitude
longitude = location.longitude
print('The geograpical coordinate of Brinx are {}, {}'.format(latitude, longitude))
```

The geograpical coordinate of Brinx are 40.8466508, -73.8785937.



```

In [21]: # create map of Bronx using Latitude and Longitude values
map_bronx = folium.Map(location=[latitude, longitude], zoom_start=11)

# add markers to map
for lat, lng, label in zip(bronx_data['Latitude'], bronx_data['Longitude'], br
onx_data['Neighborhood']):
    label = folium.Popup(label, parse_html=True)
    folium.CircleMarker(
        [lat, lng],
        radius=5,
        popup=label,
        color='blue',
        fill=True,
        fill_color='#3186cc',
        fill_opacity=0.7,
        parse_html=False).add_to(map_bronx)

map_bronx

```

Out[21]: Make this Notebook Trusted to load map: File -> Trust Notebook

```

In [ ]: CLIENT_ID = 'MUPR00XCLBNNHBIYXOBGFKLGYVNE10AIIDDPWXCIFYEYVKXWS' # your Foursqua
re ID
CLIENT_SECRET = 'IV2KZ5A2PSYAJDMIXJRD5V34PYLBGHYQEGS0UE5EDDKHBUQU' # your Four
square Secret
VERSION = '20190520' # Foursquare API version

print('Your credentails:')
print('CLIENT_ID: ' + CLIENT_ID)
print('CLIENT_SECRET: ' + CLIENT_SECRET)

```

```

In [22]: bronx_data.loc[0, 'Neighborhood']

```

Out[22]: 'Wakefield'

```
In [23]: neighborhood_latitude = bronx_data.loc[0, 'Latitude'] # neighborhood Latitude
         neighborhood_longitude = bronx_data.loc[0, 'Longitude'] # neighborhood Longitude value

         neighborhood_name = bronx_data.loc[0, 'Neighborhood'] # neighborhood name

         print('Latitude and longitude values of {} are {}, {}'.format(neighborhood_name,
                                                                           neighborhood_latitude,
                                                                           neighborhood_longitude))
```

Latitude and longitude values of Wakefield are 40.89470517661, -73.84720052054902.

```
In [24]: LIMIT = 100
         radius = 500
         url = 'https://api.foursquare.com/v2/venues/explore?&client_id={}&client_secret={}&v={}&ll={},{}&radius={}&limit={}'.format(
             CLIENT_ID,
             CLIENT_SECRET,
             VERSION,
             neighborhood_latitude,
             neighborhood_longitude,
             radius,
             LIMIT)
         url
```

```
Out[24]: 'https://api.foursquare.com/v2/venues/explore?&client_id=XVY0YGK3DX5QGHMN2TGS
K2EWA55P3JNPIVC5QVW5SGIGUI2L&client_secret=T53Z3HT4W5DVALRIPBK2DPD4NFOCISMUTM
NBLNW13KEJTAIJ&v=20191101&ll=40.89470517661,-73.84720052054902&radius=500&limit=100'
```

```
In [25]: results = requests.get(url).json()
```

```
In [26]: # function that extracts the category of the venue
         def get_category_type(row):
             try:
                 categories_list = row['categories']
             except:
                 categories_list = row['venue.categories']

             if len(categories_list) == 0:
                 return None
             else:
                 return categories_list[0]['name']
```

```
In [27]: venues = results['response']['groups'][0]['items']

nearby_venues = json_normalize(venues) # flatten JSON

# filter columns
filtered_columns = ['venue.name', 'venue.categories', 'venue.location.lat', 'venue.location.lng']
nearby_venues = nearby_venues.loc[:, filtered_columns]

# filter the category for each row
nearby_venues['venue.categories'] = nearby_venues.apply(get_category_type, axis=1)

# clean columns
nearby_venues.columns = [col.split(".")[1] for col in nearby_venues.columns]

nearby_venues.head()
```

Out[27]:

	name	categories	lat	lng
0	Lollipops Gelato	Dessert Shop	40.894123	-73.845892
1	Carvel Ice Cream	Ice Cream Shop	40.890487	-73.848568
2	Walgreens	Pharmacy	40.896528	-73.844700
3	Rite Aid	Pharmacy	40.896649	-73.844846
4	Dunkin'	Donut Shop	40.890459	-73.849089

```
In [28]: print('{} venues were returned by Foursquare.'.format(nearby_venues.shape[0]))

9 venues were returned by Foursquare.
```

```

In [29]: def getNearbyVenues(names, latitudes, longitudes, radius=500):

    venues_list=[]
    for name, lat, lng in zip(names, latitudes, longitudes):
        print(name)

        # create the API request URL
        url = 'https://api.foursquare.com/v2/venues/explore?&client_id={}&client_secret={}&v={}&ll={},{}&radius={}&limit={}'.format(
            CLIENT_ID,
            CLIENT_SECRET,
            VERSION,
            lat,
            lng,
            radius,
            LIMIT)

        # make the GET request
        results = requests.get(url).json()["response"]["groups"][0]["items"]

        # return only relevant information for each nearby venue
        venues_list.append([
            name,
            lat,
            lng,
            v['venue']['name'],
            v['venue']['location']['lat'],
            v['venue']['location']['lng'],
            v['venue']['categories'][0]['name']) for v in results])

    nearby_venues = pd.DataFrame([item for venue_list in venues_list for item
in venue_list])
    nearby_venues.columns = ['Neighborhood',
                            'Neighborhood Latitude',
                            'Neighborhood Longitude',
                            'Venue',
                            'Venue Latitude',
                            'Venue Longitude',
                            'Venue Category']

    return(nearby_venues)

```

```
In [30]: bronx_venues = getNearbyVenues(names=bronx_data['Neighborhood'],  
                                         latitudes=bronx_data['Latitude'],  
                                         longitudes=bronx_data['Longitude']  
                                         )
```

Wakefield  
Co-op City  
Eastchester  
Fieldston  
Riverdale  
Kingsbridge  
Woodlawn  
Norwood  
Williamsbridge  
Baychester  
Pelham Parkway  
City Island  
Bedford Park  
University Heights  
Morris Heights  
Fordham  
East Tremont  
West Farms  
High Bridge  
Melrose  
Mott Haven  
Port Morris  
Longwood  
Hunts Point  
Morrisania  
Soundview  
Clason Point  
Throgs Neck  
Country Club  
Parkchester  
Westchester Square  
Van Nest  
Morris Park  
Belmont  
Spuyten Duyvil  
North Riverdale  
Pelham Bay  
Schuylerville  
Edgewater Park  
Castle Hill  
Olinville  
Pelham Gardens  
Concourse  
Unionport  
Edenwald  
Claremont Village  
Concourse Village  
Mount Eden  
Mount Hope  
Bronxdale  
Allerton  
Kingsbridge Heights

```
In [31]: print(bronx_venues.shape)
bronx_venues.head()
```

(1203, 7)

Out[31]:

	Neighborhood	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
0	Wakefield	40.894705	-73.847201	Lollipops Gelato	40.894123	-73.845892	Dessert Shop
1	Wakefield	40.894705	-73.847201	Carvel Ice Cream	40.890487	-73.848568	Ice Cream Shop
2	Wakefield	40.894705	-73.847201	Walgreens	40.896528	-73.844700	Pharmacy
3	Wakefield	40.894705	-73.847201	Rite Aid	40.896649	-73.844846	Pharmacy
4	Wakefield	40.894705	-73.847201	Dunkin'	40.890459	-73.849089	Donut Shop

```
In [32]: bronx_venues.groupby('Neighborhood').count()
```



Out[32]:

	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
Neighborhood						
Allerton	31	31	31	31	31	31
Baychester	21	21	21	21	21	21
Bedford Park	39	39	39	39	39	39
Belmont	99	99	99	99	99	99
Bronxdale	11	11	11	11	11	11
Castle Hill	9	9	9	9	9	9
City Island	27	27	27	27	27	27
Claremont Village	16	16	16	16	16	16
Clason Point	10	10	10	10	10	10
Co-op City	18	18	18	18	18	18
Concourse	23	23	23	23	23	23
Concourse Village	41	41	41	41	41	41
Country Club	5	5	5	5	5	5
East Tremont	17	17	17	17	17	17
Eastchester	18	18	18	18	18	18
Edenwald	5	5	5	5	5	5
Edgewater Park	22	22	22	22	22	22
Fieldston	4	4	4	4	4	4
Fordham	80	80	80	80	80	80
High Bridge	26	26	26	26	26	26
Hunts Point	13	13	13	13	13	13
Kingsbridge	71	71	71	71	71	71
Kingsbridge Heights	30	30	30	30	30	30
Longwood	7	7	7	7	7	7
Melrose	29	29	29	29	29	29
Morris Heights	9	9	9	9	9	9
Morris Park	22	22	22	22	22	22
Morrisania	26	26	26	26	26	26
Mott Haven	17	17	17	17	17	17
Mount Eden	34	34	34	34	34	34
Mount Hope	13	13	13	13	13	13

	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
Neighborhood						
North Riverdale	22	22	22	22	22	22
Norwood	33	33	33	33	33	33
Olinville	8	8	8	8	8	8
Parkchester	30	30	30	30	30	30
Pelham Bay	40	40	40	40	40	40
Pelham Gardens	22	22	22	22	22	22
Pelham Parkway	21	21	21	21	21	21
Port Morris	15	15	15	15	15	15
Riverdale	10	10	10	10	10	10
Schuylerville	17	17	17	17	17	17
Soundview	16	16	16	16	16	16
Spuyten Duyvil	9	9	9	9	9	9
Throgs Neck	10	10	10	10	10	10
Unionport	23	23	23	23	23	23
University Heights	23	23	23	23	23	23
Van Nest	18	18	18	18	18	18
Wakefield	9	9	9	9	9	9
West Farms	21	21	21	21	21	21
Westchester Square	33	33	33	33	33	33
Williamsbridge	4	4	4	4	4	4
Woodlawn	26	26	26	26	26	26

```
In [33]: # one hot encoding
bronx_onehot = pd.get_dummies(bronx_venues[['Venue Category']], prefix="", prefix_sep="")

# add neighborhood column back to dataframe
bronx_onehot['Neighborhood'] = bronx_venues['Neighborhood']

# move neighborhood column to the first column
fixed_columns = [bronx_onehot.columns[-1]] + list(bronx_onehot.columns[:-1])
bronx_onehot = bronx_onehot[fixed_columns]

bronx_onehot.head(3)
```

Out[33]:

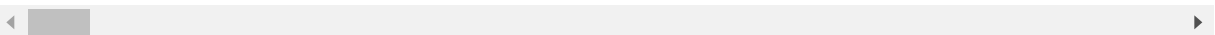
	Neighborhood	Accessories Store	African Restaurant	American Restaurant	Arcade	Arepa Restaurant	Art Gallery	Art Museum	R
0	Wakefield	0	0	0	0	0	0	0	
1	Wakefield	0	0	0	0	0	0	0	
2	Wakefield	0	0	0	0	0	0	0	

```
In [34]: bronx_grouped = bronx_onehot.groupby('Neighborhood').mean().reset_index()  
bronx_grouped
```

Out[34]:

	Neighborhood	Accessories Store	African Restaurant	American Restaurant	Arcade	Arepa Restaurant	Art Gallery	Art Museum
0	Allerton	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
1	Baychester	0.000000	0.000000	0.000000	0.047619	0.000000	0.000000	0.000000
2	Bedford Park	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
3	Belmont	0.000000	0.000000	0.010101	0.000000	0.000000	0.000000	0.000000
4	Bronxdale	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
5	Castle Hill	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
6	City Island	0.000000	0.000000	0.037037	0.000000	0.000000	0.000000	0.000000
7	Claremont Village	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
8	Clason Point	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
9	Co-op City	0.055556	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
10	Concourse	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.04347
11	Concourse Village	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
12	Country Club	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
13	East Tremont	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
14	Eastchester	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
15	Edenwald	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
16	Edgewater Park	0.000000	0.000000	0.045455	0.000000	0.000000	0.000000	0.000000
17	Fieldston	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
18	Fordham	0.012500	0.012500	0.000000	0.000000	0.000000	0.000000	0.000000
19	High Bridge	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
20	Hunts Point	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
21	Kingsbridge	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
22	Kingsbridge Heights	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
23	Longwood	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
24	Melrose	0.000000	0.000000	0.000000	0.000000	0.000000	0.034483	0.000000
25	Morris Heights	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
26	Morris Park	0.000000	0.000000	0.000000	0.000000	0.045455	0.000000	0.000000
27	Morrisania	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
28	Mott Haven	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
29	Mount Eden	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
30	Mount Hope	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

	Neighborhood	Accessories Store	African Restaurant	American Restaurant	Arcade	Arepa Restaurant	Art Gallery	Art Museum
31	North Riverdale	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
32	Norwood	0.000000	0.000000	0.030303	0.000000	0.000000	0.000000	0.000000
33	Olinville	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
34	Parkchester	0.000000	0.000000	0.066667	0.000000	0.000000	0.000000	0.000000
35	Pelham Bay	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
36	Pelham Gardens	0.000000	0.000000	0.045455	0.000000	0.000000	0.000000	0.000000
37	Pelham Parkway	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
38	Port Morris	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
39	Riverdale	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
40	Schuylerville	0.000000	0.000000	0.058824	0.000000	0.000000	0.000000	0.000000
41	Soundview	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
42	Spuyten Duyvil	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
43	Throgs Neck	0.000000	0.000000	0.100000	0.000000	0.000000	0.000000	0.000000
44	Unionport	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
45	University Heights	0.000000	0.043478	0.000000	0.000000	0.000000	0.000000	0.000000
46	Van Nest	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
47	Wakefield	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
48	West Farms	0.000000	0.000000	0.000000	0.000000	0.000000	0.047619	0.000000
49	Westchester Square	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
50	Williamsbridge	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
51	Woodlawn	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000



In [35]: `bronx_grouped.shape`

Out[35]: (52, 169)

```
In [36]: num_top_venues = 5

for hood in bronx_grouped['Neighborhood']:
    print("-----"+hood+"-----")
    temp = bronx_grouped[bronx_grouped['Neighborhood'] == hood].T.reset_index
    ()
    temp.columns = ['venue', 'freq']
    temp = temp.iloc[1:]
    temp['freq'] = temp['freq'].astype(float)
    temp = temp.round({'freq': 2})
    print(temp.sort_values('freq', ascending=False).reset_index(drop=True).head(num_top_venues))
    print('\n')
```

## ----Allerton----

	venue	freq
0	Pizza Place	0.13
1	Deli / Bodega	0.06
2	Spa	0.06
3	Chinese Restaurant	0.06
4	Bakery	0.06

## ----Baychester----

	venue	freq
0	Donut Shop	0.10
1	Mexican Restaurant	0.05
2	Supermarket	0.05
3	Shopping Mall	0.05
4	Fast Food Restaurant	0.05

## ----Bedford Park----

	venue	freq
0	Chinese Restaurant	0.10
1	Pizza Place	0.10
2	Diner	0.10
3	Mexican Restaurant	0.08
4	Deli / Bodega	0.08

## ----Belmont----

	venue	freq
0	Italian Restaurant	0.20
1	Pizza Place	0.08
2	Deli / Bodega	0.07
3	Bakery	0.05
4	Mexican Restaurant	0.04

## ----Bronxdale----

	venue	freq
0	Breakfast Spot	0.09
1	Italian Restaurant	0.09
2	Spanish Restaurant	0.09
3	Pizza Place	0.09
4	Paper / Office Supplies Store	0.09

## ----Castle Hill----

	venue	freq
0	Baseball Field	0.11
1	Deli / Bodega	0.11
2	Diner	0.11
3	Pizza Place	0.11
4	Southern / Soul Food Restaurant	0.11

## ----City Island----

	venue	freq
0	Harbor / Marina	0.11



1	Thrift / Vintage Store	0.07
2	Boat or Ferry	0.07
3	Seafood Restaurant	0.07
4	Baseball Field	0.04

#### ----Claremont Village----

	venue	freq
0	Grocery Store	0.19
1	Bakery	0.12
2	Bus Station	0.12
3	Chinese Restaurant	0.12
4	Pizza Place	0.06

#### ----Clason Point----

	venue	freq
0	Park	0.4
1	Pool	0.1
2	Moving Target	0.1
3	Boat or Ferry	0.1
4	South American Restaurant	0.1

#### ----Co-op City----

	venue	freq
0	Fast Food Restaurant	0.11
1	Bus Station	0.11
2	Mattress Store	0.06
3	Chinese Restaurant	0.06
4	Basketball Court	0.06

#### ----Concourse----

	venue	freq
0	Grocery Store	0.17
1	Deli / Bodega	0.09
2	Bus Station	0.09
3	Bakery	0.04
4	Fried Chicken Joint	0.04

#### ----Concourse Village----

	venue	freq
0	Sandwich Place	0.07
1	Deli / Bodega	0.07
2	Bus Station	0.07
3	Fast Food Restaurant	0.07
4	Mexican Restaurant	0.07

#### ----Country Club----

	venue	freq
0	Sandwich Place	0.4
1	Playground	0.2
2	Athletics & Sports	0.2
3	Chinese Restaurant	0.2

4 Accessories Store 0.0

----East Tremont----

	venue	freq
0	Pizza Place	0.18
1	Restaurant	0.06
2	Bank	0.06
3	Discount Store	0.06
4	Donut Shop	0.06

----Eastchester----

	venue	freq
0	Caribbean Restaurant	0.17
1	Diner	0.11
2	Deli / Bodega	0.11
3	Bus Station	0.11
4	Seafood Restaurant	0.06

----Edenwald----

	venue	freq
0	Supermarket	0.2
1	Construction & Landscaping	0.2
2	Fish Market	0.2
3	Gas Station	0.2
4	Grocery Store	0.2

----Edgewater Park----

	venue	freq
0	Italian Restaurant	0.18
1	Deli / Bodega	0.14
2	Coffee Shop	0.09
3	Pizza Place	0.09
4	Pub	0.05

----Fieldston----

	venue	freq
0	Plaza	0.25
1	Wine Shop	0.25
2	River	0.25
3	Bus Station	0.25
4	Accessories Store	0.00

----Fordham----

	venue	freq
0	Mobile Phone Shop	0.06
1	Shoe Store	0.05
2	Bank	0.05
3	Donut Shop	0.05
4	Pizza Place	0.05

## ----High Bridge----

	venue	freq
0	Pharmacy	0.15
1	Pizza Place	0.12
2	Bus Station	0.12
3	Supermarket	0.08
4	Latin American Restaurant	0.08

## ----Hunts Point----

	venue	freq
0	Waste Facility	0.15
1	Juice Bar	0.08
2	BBQ Joint	0.08
3	Gourmet Shop	0.08
4	Grocery Store	0.08

## ----Kingsbridge----

	venue	freq
0	Pizza Place	0.08
1	Bar	0.06
2	Supermarket	0.04
3	Mexican Restaurant	0.04
4	Latin American Restaurant	0.04

## ----Kingsbridge Heights----

	venue	freq
0	Pizza Place	0.13
1	Bus Station	0.10
2	Food Truck	0.10
3	Chinese Restaurant	0.07
4	Coffee Shop	0.07

## ----Longwood----

	venue	freq
0	Deli / Bodega	0.14
1	Diner	0.14
2	Fast Food Restaurant	0.14
3	Grocery Store	0.14
4	Sandwich Place	0.14

## ----Melrose----

	venue	freq
0	Pizza Place	0.10
1	Pharmacy	0.10
2	Grocery Store	0.07
3	Sandwich Place	0.07
4	Discount Store	0.07

## ----Morris Heights----

	venue	freq
0	Spanish Restaurant	0.22

1	Recreation Center	0.11
2	Bank	0.11
3	Deli / Bodega	0.11
4	Supermarket	0.11

----Morris Park----

	venue	freq
0	Pizza Place	0.18
1	Bakery	0.09
2	Deli / Bodega	0.09
3	Burger Joint	0.09
4	Sandwich Place	0.05

----Morrisania----

	venue	freq
0	Discount Store	0.15
1	Bus Station	0.12
2	Grocery Store	0.08
3	Donut Shop	0.08
4	Fast Food Restaurant	0.08

----Mott Haven----

	venue	freq
0	Spanish Restaurant	0.12
1	Pizza Place	0.12
2	Donut Shop	0.12
3	Storage Facility	0.06
4	Bakery	0.06

----Mount Eden----

	venue	freq
0	Pharmacy	0.12
1	Fast Food Restaurant	0.09
2	Supermarket	0.09
3	Spanish Restaurant	0.06
4	Bar	0.06

----Mount Hope----

	venue	freq
0	Grocery Store	0.15
1	Pizza Place	0.15
2	Spanish Restaurant	0.08
3	Moving Target	0.08
4	Ice Cream Shop	0.08

----North Riverdale----

	venue	freq
0	Pizza Place	0.14
1	Bank	0.09
2	Italian Restaurant	0.09
3	Pool	0.05

4           Burger Joint   0.05

----Norwood----

	venue	freq
0	Pizza Place	0.15
1	Park	0.09
2	Bank	0.09
3	Mexican Restaurant	0.06
4	Bus Station	0.06

----Olinville----

	venue	freq
0	Caribbean Restaurant	0.25
1	Fried Chicken Joint	0.12
2	Liquor Store	0.12
3	Supermarket	0.12
4	Food	0.12

----Parkchester----

	venue	freq
0	Supermarket	0.13
1	Pizza Place	0.10
2	American Restaurant	0.07
3	Kids Store	0.07
4	Bank	0.07

----Pelham Bay----

	venue	freq
0	Fast Food Restaurant	0.08
1	Italian Restaurant	0.08
2	Bank	0.08
3	Convenience Store	0.05
4	Donut Shop	0.05

----Pelham Gardens----

	venue	freq
0	Bus Station	0.09
1	Donut Shop	0.09
2	Pharmacy	0.09
3	Pizza Place	0.05
4	Spanish Restaurant	0.05

----Pelham Parkway----

	venue	freq
0	Italian Restaurant	0.10
1	Pizza Place	0.10
2	Mexican Restaurant	0.05
3	Bank	0.05
4	Smoke Shop	0.05

## ----Port Morris----

	venue	freq
0	Latin American Restaurant	0.13
1	Furniture / Home Store	0.13
2	Cupcake Shop	0.07
3	Music Venue	0.07
4	Restaurant	0.07

## ----Riverdale----

	venue	freq
0	Park	0.2
1	Food Truck	0.1
2	Plaza	0.1
3	Playground	0.1
4	Bus Station	0.1

## ----Schuylerville----

	venue	freq
0	Diner	0.12
1	Mexican Restaurant	0.12
2	Pharmacy	0.12
3	Pizza Place	0.12
4	Hookah Bar	0.06

## ----Soundview----

	venue	freq
0	Chinese Restaurant	0.19
1	Pharmacy	0.06
2	Fried Chicken Joint	0.06
3	Discount Store	0.06
4	Bus Station	0.06

## ----Spuyten Duyvil----

	venue	freq
0	Intersection	0.11
1	Thai Restaurant	0.11
2	Pharmacy	0.11
3	Scenic Lookout	0.11
4	Fast Food Restaurant	0.11

## ----Throgs Neck----

	venue	freq
0	Coffee Shop	0.1
1	Pizza Place	0.1
2	American Restaurant	0.1
3	Baseball Field	0.1
4	Italian Restaurant	0.1

## ----Unionport----

	venue	freq
0	Latin American Restaurant	0.09

1	Donut Shop	0.09
2	Ice Cream Shop	0.09
3	Deli / Bodega	0.04
4	Mobile Phone Shop	0.04

#### ----University Heights----

	venue	freq
0	Pizza Place	0.09
1	Chinese Restaurant	0.09
2	Bakery	0.09
3	Donut Shop	0.04
4	Shoe Store	0.04

#### ----Van Nest----

	venue	freq
0	Pizza Place	0.22
1	Deli / Bodega	0.11
2	Middle Eastern Restaurant	0.06
3	Coffee Shop	0.06
4	Bus Station	0.06

#### ----Wakefield----

	venue	freq
0	Pharmacy	0.22
1	Ice Cream Shop	0.11
2	Gas Station	0.11
3	Donut Shop	0.11
4	Sandwich Place	0.11

#### ----West Farms----

	venue	freq
0	Bus Station	0.24
1	Park	0.10
2	Intersection	0.05
3	Bank	0.05
4	Sandwich Place	0.05

#### ----Westchester Square----

	venue	freq
0	Fast Food Restaurant	0.09
1	Pharmacy	0.06
2	Donut Shop	0.06
3	Sandwich Place	0.06
4	Pizza Place	0.06

#### ----Williamsbridge----

	venue	freq
0	Caribbean Restaurant	0.25
1	Bar	0.25
2	Soup Place	0.25
3	Nightclub	0.25

4                      Playground   0.00

----Woodlawn----

	venue	freq
0	Deli / Bodega	0.15
1	Pub	0.08
2	Food & Drink Shop	0.08
3	Playground	0.08
4	Pizza Place	0.08

```
In [37]: def return_most_common_venues(row, num_top_venues):  
         row_categories = row.iloc[1:]  
         row_categories_sorted = row_categories.sort_values(ascending=False)  
  
         return row_categories_sorted.index.values[0:num_top_venues]
```



```
In [38]: num_top_venues = 10

indicators = ['st', 'nd', 'rd']

# create columns according to number of top venues
columns = ['Neighborhood']
for ind in np.arange(num_top_venues):
    try:
        columns.append('{}{} Most Common Venue'.format(ind+1, indicators[ind]))
    except:
        columns.append('{}th Most Common Venue'.format(ind+1))

# create a new dataframe
neighborhoods_venues_sorted = pd.DataFrame(columns=columns)
neighborhoods_venues_sorted['Neighborhood'] = bronx_grouped['Neighborhood']

for ind in np.arange(bronx_grouped.shape[0]):
    neighborhoods_venues_sorted.iloc[ind, 1:] = return_most_common_venues(bronx_grouped.iloc[ind, :], num_top_venues)

neighborhoods_venues_sorted.head()
```

Out[38]:

	Neighborhood	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue	7th Most Common Venue
0	Allerton	Pizza Place	Spa	Deli / Bodega	Chinese Restaurant	Bakery	Supermarket	Small Shop
1	Baychester	Donut Shop	Spanish Restaurant	Supermarket	Pizza Place	Pet Store	Rental Car Location	Discount Store
2	Bedford Park	Chinese Restaurant	Diner	Pizza Place	Deli / Bodega	Mexican Restaurant	Spanish Restaurant	Sandwich Place
3	Belmont	Italian Restaurant	Pizza Place	Deli / Bodega	Bakery	Mexican Restaurant	Grocery Store	Desk
4	Bronxdale	Mexican Restaurant	Gym	Performing Arts Venue	Chinese Restaurant	Paper / Office Supplies Store	Eastern European Restaurant	Spa Restaurant

```
In [39]: # set number of clusters
kclusters = 5

bronx_grouped_clustering = bronx_grouped.drop('Neighborhood', 1)

# run k-means clustering
kmeans = KMeans(n_clusters=kclusters, random_state=0).fit(bronx_grouped_clustering)

# check cluster labels generated for each row in the dataframe
kmeans.labels_[0:10]
```

Out[39]: array([0, 4, 0, 0, 0, 0, 0, 0, 3, 0], dtype=int32)

```
In [40]: # add clustering labels
neighborhoods_venues_sorted.insert(0, 'Cluster Labels', kmeans.labels_)

bronx_merged = bronx_data

# merge toronto_grouped with toronto_data to add Latitude/Longitude for each neighborhood
bronx_merged = bronx_merged.join(neighborhoods_venues_sorted.set_index('Neighborhood'), on='Neighborhood')

bronx_merged.head() # check the last columns!
```

Out[40]:

	Borough	Neighborhood	Latitude	Longitude	Cluster Labels	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4
0	Bronx	Wakefield	40.894705	-73.847201	0	Pharmacy	Ice Cream Shop	Gas Station	
1	Bronx	Co-op City	40.874294	-73.829939	0	Fast Food Restaurant	Bus Station	Accessories Store	
2	Bronx	Eastchester	40.887556	-73.827806	0	Caribbean Restaurant	Deli / Bodega	Diner	
3	Bronx	Fieldston	40.895437	-73.905643	3	Plaza	Wine Shop	River	
4	Bronx	Riverdale	40.890834	-73.912585	3	Park	Playground	Bank	

```
In [41]: # create map
map_clusters = folium.Map(location=[latitude, longitude], zoom_start=11)

# set color scheme for the clusters
x = np.arange(kclusters)
ys = [i + x + (i*x)**2 for i in range(kclusters)]
colors_array = cm.rainbow(np.linspace(0, 1, len(ys)))
rainbow = [colors.rgb2hex(i) for i in colors_array]

# add markers to the map
markers_colors = []
for lat, lon, poi, cluster in zip(bronx_merged['Latitude'], bronx_merged['Longitude'], bronx_merged['Neighborhood'], bronx_merged['Cluster Labels']):
    label = folium.Popup(str(poi) + ' Cluster ' + str(cluster), parse_html=True)
    folium.CircleMarker(
        [lat, lon],
        radius=5,
        popup=label,
        color=rainbow[cluster-1],
        fill=True,
        fill_color=rainbow[cluster-1],
        fill_opacity=0.7).add_to(map_clusters)

map_clusters
```

Out[41]: Make this Notebook Trusted to load map: File -> Trust Notebook

```
In [42]: bronx_merged.loc[bronx_merged['Cluster Labels'] == 0, bronx_merged.columns[[1]  
+ list(range(5, bronx_merged.shape[1]))]]
```

Out[42]:

	Neighborhood	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue	
0	Wakefield	Pharmacy	Ice Cream Shop	Gas Station	Deli / Bodega	Sandwich Place	Dessert Shop	I
1	Co-op City	Fast Food Restaurant	Bus Station	Accessories Store	Baseball Field	Grocery Store	Liquor Store	
2	Eastchester	Caribbean Restaurant	Deli / Bodega	Diner	Bus Station	Bowling Alley	Food & Drink Shop	C
5	Kingsbridge	Pizza Place	Bar	Supermarket	Latin American Restaurant	Sandwich Place	Mexican Restaurant	
6	Woodlawn	Deli / Bodega	Pizza Place	Food & Drink Shop	Playground	Pub	Convenience Store	
7	Norwood	Pizza Place	Park	Bank	Pharmacy	Mexican Restaurant	Bus Station	
10	Pelham Parkway	Pizza Place	Italian Restaurant	Frozen Yogurt Shop	Deli / Bodega	Performing Arts Venue	Coffee Shop	
11	City Island	Harbor / Marina	Seafood Restaurant	Thrift / Vintage Store	Boat or Ferry	History Museum	Tapas Restaurant	
12	Bedford Park	Chinese Restaurant	Diner	Pizza Place	Deli / Bodega	Mexican Restaurant	Spanish Restaurant	
13	University Heights	Bakery	Pizza Place	Chinese Restaurant	Laundromat	Burrito Place	Shoe Store	
14	Morris Heights	Spanish Restaurant	Pizza Place	Recreation Center	Pharmacy	Deli / Bodega	Grocery Store	S
18	High Bridge	Pharmacy	Pizza Place	Bus Station	Supermarket	Latin American Restaurant	Seafood Restaurant	
19	Melrose	Pizza Place	Pharmacy	Gym / Fitness Center	Sandwich Place	Discount Store	Grocery Store	
20	Mott Haven	Pizza Place	Spanish Restaurant	Donut Shop	Latin American Restaurant	Burger Joint	Storage Facility	
21	Port Morris	Latin American Restaurant	Furniture / Home Store	Cupcake Shop	Music Venue	Storage Facility	Food Truck	
22	Longwood	Fast Food Restaurant	Deli / Bodega	Sandwich Place	Latin American Restaurant	Diner	Donut Shop	
24	Morrisania	Discount Store	Bus Station	Fast Food Restaurant	Donut Shop	Grocery Store	Sandwich Place	F
25	Soundview	Chinese Restaurant	Deli / Bodega	Latin American Restaurant	Breakfast Spot	Bus Station	Bus Stop	
27	Throgs Neck	Pizza Place	Sports Bar	Bar	Chinese Restaurant	Coffee Shop	Asian Restaurant	

	Neighborhood	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue	
30	Westchester Square	Fast Food Restaurant	Donut Shop	Pharmacy	Pizza Place	Sandwich Place	Indie Theater	
31	Van Nest	Pizza Place	Deli / Bodega	Middle Eastern Restaurant	Food Truck	Coffee Shop	Donut Shop	
32	Morris Park	Pizza Place	Burger Joint	Deli / Bodega	Bakery	Coffee Shop	Buffet	
33	Belmont	Italian Restaurant	Pizza Place	Deli / Bodega	Bakery	Mexican Restaurant	Grocery Store	
35	North Riverdale	Pizza Place	Bank	Italian Restaurant	Bar	Burger Joint	Mexican Restaurant	
37	Schuylerville	Mexican Restaurant	Diner	Pharmacy	Pizza Place	Convenience Store	Bank	
38	Edgewater Park	Italian Restaurant	Deli / Bodega	Coffee Shop	Pizza Place	Pub	Bar	
39	Castle Hill	Bank	Pizza Place	Deli / Bodega	Pharmacy	Southern / Soul Food Restaurant	Diner	
41	Pelham Gardens	Pharmacy	Donut Shop	Bus Station	Liquor Store	Deli / Bodega	Pizza Place	
42	Concourse	Grocery Store	Deli / Bodega	Bus Station	Ice Cream Shop	Liquor Store	Pharmacy	C
43	Unionport	Latin American Restaurant	Ice Cream Shop	Donut Shop	Plaza	Spanish Restaurant	Pizza Place	
45	Claremont Village	Grocery Store	Chinese Restaurant	Bus Station	Bakery	Caribbean Restaurant	Liquor Store	
46	Concourse Village	Sandwich Place	Bus Station	Fast Food Restaurant	Mexican Restaurant	Deli / Bodega	Pharmacy	
47	Mount Eden	Pharmacy	Fast Food Restaurant	Supermarket	Spanish Restaurant	Bar	Grocery Store	
48	Mount Hope	Pizza Place	Grocery Store	Deli / Bodega	Moving Target	Supermarket	Donut Shop	
49	Bronxdale	Mexican Restaurant	Gym	Performing Arts Venue	Chinese Restaurant	Paper / Office Supplies Store	Eastern European Restaurant	
50	Allerton	Pizza Place	Spa	Deli / Bodega	Chinese Restaurant	Bakery	Supermarket	S
51	Kingsbridge Heights	Pizza Place	Bus Station	Food Truck	Coffee Shop	Chinese Restaurant	Pharmacy	

```
In [43]: bronx_merged.loc[bronx_merged['Cluster Labels'] == 1, bronx_merged.columns[[1]
+ list(range(5, bronx_merged.shape[1]))]]
```

Out[43]:

	Neighborhood	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue	7th Most Common Venue	8th Corr V
8	Williamsbridge	Nightclub	Soup Place	Bar	Caribbean Restaurant	Women's Store	Donut Shop	Film Studio	Fast Resta

```
In [44]: bronx_merged.loc[bronx_merged['Cluster Labels'] == 2, bronx_merged.columns[[1]
+ list(range(5, bronx_merged.shape[1]))]]
```

Out[44]:

	Neighborhood	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue	7th Most Common Venue	8
28	Country Club	Sandwich Place	Playground	Chinese Restaurant	Athletics & Sports	Dive Bar	Film Studio	Fast Food Restaurant	C

```
In [45]: bronx_merged.loc[bronx_merged['Cluster Labels'] == 3, bronx_merged.columns[[1]
+ list(range(5, bronx_merged.shape[1]))]]
```

Out[45]:

	Neighborhood	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue	7th Most Common Venue	
3	Fieldston	Plaza	Wine Shop	River	Bus Station	Dive Bar	Film Studio	Fast Food Restaurant	
4	Riverdale	Park	Playground	Bank	Home Service	Plaza	Food Truck	Bus Station	
17	West Farms	Bus Station	Park	Metro Station	Latin American Restaurant	Playground	Diner	Coffee Shop	
26	Clason Point	Park	Pool	Bus Stop	Moving Target	Boat or Ferry	South American Restaurant	Grocery Store	

```
In [46]: bronx_merged.loc[bronx_merged['Cluster Labels'] == 4, bronx_merged.columns[[1]
+ list(range(5, bronx_merged.shape[1]))]]
```

Out[46]:

	Neighborhood	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue
9	Baychester	Donut Shop	Spanish Restaurant	Supermarket	Pizza Place	Pet Store	Rental Car Location
15	Fordham	Mobile Phone Shop	Donut Shop	Shoe Store	Pizza Place	Bank	Supplement Shop
16	East Tremont	Pizza Place	Café	Fast Food Restaurant	Breakfast Spot	Supermarket	Shoe Store
23	Hunts Point	Waste Facility	Food	Grocery Store	Restaurant	Café	Farmers Market
29	Parkchester	Supermarket	Pizza Place	American Restaurant	Bank	Kids Store	Women's Store
34	Spuyten Duyvil	Thai Restaurant	Park	Bank	Scenic Lookout	Tennis Court	Tennis Stadium
36	Pelham Bay	Fast Food Restaurant	Bank	Italian Restaurant	Gym / Fitness Center	Sandwich Place	Donut Shop
40	Olinville	Caribbean Restaurant	Food	Southern / Soul Food Restaurant	Supermarket	Fried Chicken Joint	Liquor Store
44	Edenwald	Construction & Landscaping	Fish Market	Supermarket	Gas Station	Grocery Store	Department Store

## Results

First and second cluster contains majority of the neighbourhood, based on common venues. Cluster 3-5 contain 1-2 venues per cluster.

Few observations/insights from the results:

Most neighbourhoods are similar in terms of the types/categories of venues which could mean few things. The population in Bronx is similar (i.e. age, occupation, etc.) across neighbourhood. While NYC is considered an international city, Bronx might be more American due to similar venues. Only one of the neighbourhood, East Tremont, where Café is in top 5 frequency which would indicate that it is more of a bedroom community - people go to work in other cities. The final recommendation/conclusion that can be drawn from this is that you and your friend should open up a café in Manhattan as the first and the second clusters (Red and Purple) had café in the top 10 most common types of venues.



## Observations

I guess it's not a surprise that these districts are all very centrally located in New York City. Locations fitting the criteria for popular venues would normally be in central locations in many cities of the world.

From this visualisation it is clear that on a practical level, with no data to base decisions on, the circle of all the neighborhood is very large, and researching and then visiting them all would be a daunting and time consuming task. We have narrowed the search area down significantly to get the result.

## Inferences

We have made inferences from the data in making the location recommendations, but that is exactly the point. There is no right or wrong answer or conclusion for the task at hand. The job of data analysis here is to steer a course for the location selection of new stores (i) to meet the criteria of being in neighbourhoods that are lively with abundant leisure venues, and (ii) to narrow the search down to just a few of the main areas that are best suited to match the criteria.

## Conclusions

There are many ways this analysis could have been performed based on different methodology and perhaps different data sources. The method selected is a straight forward way to narrow down the options, not complicating what is actually simple in many ways – meeting the criteria for the surrounding venues. The analysis and results are not an end point, but rather a starting point that will guide the next part of the process to find specific store locations. The next part will involve domain knowledge of the industry, and perhaps, of the city itself. But the data analysis and resulting recommendations have greatly narrowed down the best neighborhood options based on data and what we can infer from it.

With Data science methodology, we can narrow down to best option for starting a cafe based on different data points and provide better startup strategy.

In [ ]: