

## Cafe in Queens

### Introduction

In this project, we will how convert addresses into their equivalent latitude and longitude values. Also, we will use the Foursquare API to explore neighborhoods in New York City. We will use the explore function to get the most common venue categories in each neighborhood, and then use this feature to group the neighborhoods into clusters. Then we will use the k-means clustering algorithm to complete this task. Finally, we will use the Folium library to visualize the neighborhoods in New York City and their emerging clusters.

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### 1. Importing Libraries:

In [4]:

```
!conda install -c conda-forge beautifulsoup4 --yes  
!conda install -c conda-forge folium=0.5.0 --yes  
print('Libraries installed!')
```

Collecting package metadata: done  
Solving environment: done

==> WARNING: A newer version of conda exists. <==  
current version: 4.6.14  
latest version: 4.7.5

Please update conda by running

```
$ conda update -n base -c defaults conda
```

## ## Package Plan ##

environment location: /srv/conda/envs/notebook

added / updated specs:  
- beautifulsoup4

The following packages will be downloaded:

package	build		
beautifulsoup4-4.7.1	py37_1001	140 KB	conda-forge
openssl-1.1.1c	h516909a_0	2.1 MB	conda-forge
soupsieve-1.9.2	py37_0	58 KB	conda-forge
Total:		2.3 MB	

The following NEW packages will be INSTALLED:

beautifulsoup4	conda-forge/linux-64::beautifulsoup4-4.7.1-py37_1001
soupsieve	conda-forge/linux-64::soupsieve-1.9.2-py37_0

The following packages will be UPDATED:

openssl	1.1.1b-h14c3975_1 --> 1.1.1c-h516909a_0
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## Downloading and Extracting Packages

soupsieve-1.9.2	58 KB	#####	100%
openssl-1.1.1c	2.1 MB	#####	100%
beautifulsoup4-4.7.1	140 KB	#####	100%

Preparing transaction: done  
Verifying transaction: done  
Executing transaction: done  
Collecting package metadata: done  
Solving environment: done

```
==> WARNING: A newer version of conda exists. <==
current version: 4.6.14
latest version: 4.7.5
```

Please update conda by running

```
$ conda update -n base -c defaults conda
```

## ## Package Plan ##

environment location: /srv/conda/envs/notebook

added / updated specs:  
- folium=0.5.0

The following packages will be downloaded:

package	build		
asn1crypto-0.24.0	py37_1003	154 KB	conda-forge
cffi-1.12.3	py37h8022711_0	218 KB	conda-forge
chardet-3.0.4	py37_1003	167 KB	conda-forge
cryptography-2.7	py37h72c5cf5_0	610 KB	conda-forge
folium-0.5.0	py_0	45 KB	conda-forge
idna-2.8	py37_1000	100 KB	conda-forge
pycparser-2.19	py37_1	171 KB	conda-forge
pyopenssl-19.0.0	py37_0	81 KB	conda-forge
pysocks-1.7.0	py37_0	26 KB	conda-forge
requests-2.22.0	py37_1	84 KB	conda-forge
urllib3-1.25.3	py37_0	187 KB	conda-forge
vincent-0.4.4	py_1	28 KB	conda-forge
Total:		1.8 MB	

The following NEW packages will be INSTALLED:

asn1crypto	conda-forge/linux-64::asn1crypto-0.24.0-py37_1003
cffi	conda-forge/linux-64::cffi-1.12.3-py37h8022711_0
chardet	conda-forge/linux-64::chardet-3.0.4-py37_1003
cryptography	conda-forge/linux-64::cryptography-2.7-py37h72c5cf5_0
folium	conda-forge/noarch::folium-0.5.0-py_0
idna	conda-forge/linux-64::idna-2.8-py37_1000
pycparser	conda-forge/linux-64::pycparser-2.19-py37_1
pyopenssl	conda-forge/linux-64::pyopenssl-19.0.0-py37_0
pysocks	conda-forge/linux-64::pysocks-1.7.0-py37_0
requests	conda-forge/linux-64::requests-2.22.0-py37_1
urllib3	conda-forge/linux-64::urllib3-1.25.3-py37_0
vincent	conda-forge/noarch::vincent-0.4.4-py_1

## Downloading and Extracting Packages

```
pycparser-2.19      | 171 KB      | ##### | 10
```

```
0%
requests-2.22.0      | 84 KB      | ##### | 10
0%
pyopenssl-19.0.0    | 81 KB      | ##### | 10
0%
folium-0.5.0        | 45 KB      | ##### | 10
0%
asn1crypto-0.24.0   | 154 KB     | ##### | 10
0%
pysocks-1.7.0       | 26 KB      | ##### | 10
0%
urllib3-1.25.3      | 187 KB     | ##### | 10
0%
idna-2.8            | 100 KB     | ##### | 10
0%
chardet-3.0.4       | 167 KB     | ##### | 10
0%
cffi-1.12.3         | 218 KB     | ##### | 10
0%
cryptography-2.7    | 610 KB     | ##### | 10
0%
vincent-0.4.4       | 28 KB      | ##### | 10
0%
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
Libraries installed!
```

In [5]:

```
pip install geocoder
```

Collecting geocoder

Downloading <https://files.pythonhosted.org/packages/4f/6b/13166c909ad2f2d76b929a4227c952630ebaf0d729f6317eb09cbceccbab/geocoder-1.38.1-py2.py3-none-any.whl> (98kB)

|██| 102kB 4.5MB/s ta 0:00:01

Collecting ratelim (from geocoder)

Downloading <https://files.pythonhosted.org/packages/f2/98/7e6d147fd16a10a5f821db6e25f192265d6ecca3d82957a4fdd592cad49c/ratelim-0.1.6-py2.py3-none-any.whl>

Requirement already satisfied: six in /srv/conda/envs/notebook/lib/python3.7/site-packages (from geocoder) (1.12.0)

Requirement already satisfied: requests in /srv/conda/envs/notebook/lib/python3.7/site-packages (from geocoder) (2.22.0)

Requirement already satisfied: click in /srv/conda/envs/notebook/lib/python3.7/site-packages (from geocoder) (7.0)

Collecting future (from geocoder)

Downloading <https://files.pythonhosted.org/packages/90/52/e20466b85000a181e1e144fd8305caf2cf475e2f9674e797b222f8105f5f/future-0.17.1.tar.gz> (829kB)

|██| 829kB 14.8MB/s eta 0:00:01

Requirement already satisfied: decorator in /srv/conda/envs/notebook/lib/python3.7/site-packages (from ratelim->geocoder) (4.4.0)

Requirement already satisfied: chardet<3.1.0,>=3.0.2 in /srv/conda/envs/notebook/lib/python3.7/site-packages (from requests->geocoder) (3.0.4)

Requirement already satisfied: idna<2.9,>=2.5 in /srv/conda/envs/notebook/lib/python3.7/site-packages (from requests->geocoder) (2.8)

Requirement already satisfied: certifi>=2017.4.17 in /srv/conda/envs/notebook/lib/python3.7/site-packages (from requests->geocoder) (2019.6.16)

Requirement already satisfied: urllib3!=1.25.0,!1.25.1,<1.26,>=1.21.1 in /srv/conda/envs/notebook/lib/python3.7/site-packages (from requests->geocoder) (1.25.3)

Building wheels for collected packages: future

Building wheel for future (setup.py) ... done

Stored in directory: /home/jovyan/.cache/pip/wheels/0c/61/d2/d6b7317325828fbb39ee6ad559dbe4664d0896da4721bf379e

Successfully built future

Installing collected packages: ratelim, future, geocoder

Successfully installed future-0.17.1 geocoder-1.38.1 ratelim-0.1.6

Note: you may need to restart the kernel to use updated packages.

In [6]:

```
# use the inline backend to generate the plots within the browser
%matplotlib inline
import matplotlib as mpl
import matplotlib.pyplot as plt
mpl.style.use('ggplot') # optional: for ggplot-like style
# check for latest version of Matplotlib
print('Matplotlib version: ', mpl.__version__) # >= 2.0.0
```

Matplotlib version: 3.1.1

In [14]:

```
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 haven'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.')
```

```
Collecting package metadata: done  
Solving environment: done
```

```
==> WARNING: A newer version of conda exists. <==  
  current version: 4.6.14  
  latest version: 4.7.5
```

Please update conda by running

```
$ conda update -n base -c defaults conda
```

```
# All requested packages already installed.
```

```
Collecting package metadata: done  
Solving environment: done
```

```
==> WARNING: A newer version of conda exists. <==  
  current version: 4.6.14  
  latest version: 4.7.5
```

Please update conda by running

```
$ conda update -n base -c defaults conda
```

```
# All requested packages already installed.
```

```
Libraries imported.
```

## 2.Data Understanding and Preparation

In [35]:

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

Data downloaded!

In [36]:

```
with open('newyork_data.json') as json_data:  
    newyork_data = json.load(json_data)
```



In [37]:

```
newyork_data
```

Out[37]:

```
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 'features': [{ 'type': 'Feature',
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   'annoline3': None,
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   'bbox': [-73.84720052054902,
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    40.89470517661] } },
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  'geometry_name': 'geom',
  'properties': { 'name': 'Co-op City',
   'stacked': 2,
   'annoline1': 'Co-op',
   'annoline2': 'City',
   'annoline3': None,
   'annoangle': 0.0,
   'borough': 'Bronx',
   'bbox': [-73.82993910812398,
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    -73.82993910812398,
    40.87429419303012] } },
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   'stacked': 1,
   'annoline1': 'Eastchester',
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   'annoline3': None,
   'annoangle': 0.0,
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    -73.82780644716412,
    40.887555677350775] } },
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```

```

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-73.90564259591682,
40.89543742690383]}},
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'annoline3': None,
'annoangle': 0.0,
'borough': 'Bronx',
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'annoline1': 'Kingsbridge',
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'annoline3': None,
'annoangle': 0.0,
'borough': 'Bronx',
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-73.90281798724604,
40.88168737120521]}},
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'geometry_name': 'geom',
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'annoline1': 'Marble',
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'annoangle': 0.0,
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'bbox': [-73.91065965862981,
40.87655077879964,

```

```
-73.91065965862981,  
40.87655077879964]]}},  
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 'stacked': 1,  
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 'annoline3': None,  
 'annoangle': 0.0,  
 'borough': 'Bronx',  
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 'annoline1': 'Norwood',  
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 'annoline3': None,  
 'annoangle': 0.0,  
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 'bbox': [-73.8793907395681,  
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 'properties': {'name': 'Williamsbridge',  
 'stacked': 1,  
 'annoline1': 'Williamsbridge',  
 'annoline2': None,  
 'annoline3': None,  
 'annoangle': 0.0,  
 'borough': 'Bronx',  
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 'coordinates': [-73.83579759808117, 40.866858107252696]}},  
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 'stacked': 1,
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```
'annoline1': 'Baychester',
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'annoangle': 0.0,
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40.85741349808865]}},
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```

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```

```

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```

```
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'annoline2': None,
'annoline3': None,
'annoangle': 0.0,
'borough': 'Bronx',
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40.80623874935177,
-73.91609987487575,
40.80623874935177]}},
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 'annoline2': 'Village',
 'annoline3': None,
 'annoangle': 0.0,
 'borough': 'Bronx',
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 -73.91584652759009,
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 'stacked': 2,
 'annoline1': 'Mount',
 'annoline2': 'Eden',
 'annoline3': None,
 'annoangle': 0.0,
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 'properties': {'name': 'Mount Hope',
 'stacked': 2,
 'annoline1': 'Mount',
```

```

    'annoline2': 'Hope',
    'annoline3': None,
    'annoangle': 0.0,
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    -73.90829930881988,
    40.84884160724665]}},
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'annoline3': None,
'annoangle': 0.0,
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'annoline3': None,
'annoangle': 0.0,
'borough': 'Queens',
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'annoline1': 'Turtle',
'annoline2': 'Bay',
'annoline3': None,
'annoangle': 0.0,
'borough': 'Manhattan',
'bbox': [-73.96770824581834,
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40.75204236950722]}},
{'type': 'Feature',

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'id': 'nyu_2451_34572.275',
'geometry': {'type': 'Point',
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'annoline1': 'Tudor',
'annoline2': 'City',
'annoline3': None,
'annoangle': 0.0,
'borough': 'Manhattan',
'bbox': [-73.97121928722265,
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-73.97121928722265,
40.746917410740195]}},
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'annoline1': 'Stuyvesant',
'annoline2': 'Town',
'annoline3': None,
'annoangle': 0.0,
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40.73099955477061]}},
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'annoline1': 'Flatiron',
'annoline2': None,
'annoline3': None,
'annoangle': 0.0,
'borough': 'Manhattan',
'bbox': [-73.9909471052826,
40.739673047638426,
-73.9909471052826,
40.739673047638426]}},
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'id': 'nyu_2451_34572.278',
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'geometry_name': 'geom',
'properties': {'name': 'Sunnyside Gardens',
'stacked': 2,
'annoline1': 'Sunnyside',
'annoline2': 'Gardens',
'annoline3': None,

```

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'annoangle': 0.0,
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'bbox': [-73.91819286431682,
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'geometry_name': 'geom',
'properties': {'name': 'Blissville',
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'annoline1': 'Blissville',
'annoline2': None,
'annoline3': None,
'annoangle': 0.0,
'borough': 'Queens',
'bbox': [-73.93244235260178,
40.73725071694497,
-73.93244235260178,
40.73725071694497]}},
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'id': 'nyu_2451_34572.280',
'geometry': {'type': 'Point',
'coordinates': [-73.99550751888415, 40.70328109093014]},
'geometry_name': 'geom',
'properties': {'name': 'Fulton Ferry',
'stacked': 2,
'annoline1': 'Fulton',
'annoline2': 'Ferry',
'annoline3': None,
'annoangle': 0.0,
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'bbox': [-73.99550751888415,
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'geometry_name': 'geom',
'properties': {'name': 'Vinegar Hill',
'stacked': 2,
'annoline1': 'Vinegar',
'annoline2': 'Hill',
'annoline3': None,
'annoangle': 0.0,
'borough': 'Brooklyn',
'bbox': [-73.98111603592393,
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-73.98111603592393,
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{'type': 'Feature',
'id': 'nyu_2451_34572.282',
'geometry': {'type': 'Point',
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```
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'geometry_name': 'geom',
'properties': {'name': 'Weeksville',
'stacked': 1,
'annoline1': 'Weeksville',
'annoline2': None,
'annoline3': None,
'annoangle': 0.0,
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40.67503986503237,
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40.67503986503237]}},
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'id': 'nyu_2451_34572.283',
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'coordinates': [-73.90331684852599, 40.67786104769531]},
'geometry_name': 'geom',
'properties': {'name': 'Broadway Junction',
'stacked': 2,
'annoline1': 'Broadway',
'annoline2': 'Junction',
'annoline3': None,
'annoangle': 0.0,
'borough': 'Brooklyn',
'bbox': [-73.90331684852599,
40.67786104769531,
-73.90331684852599,
40.67786104769531]}},
{'type': 'Feature',
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'geometry': {'type': 'Point',
'coordinates': [-73.9887528074504, 40.70317632822692]},
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'properties': {'name': 'Dumbo',
'stacked': 1,
'annoline1': 'Dumbo',
'annoline2': None,
'annoline3': None,
'annoangle': 0.0,
'borough': 'Brooklyn',
'bbox': [-73.9887528074504,
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40.70317632822692]}},
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'coordinates': [-74.12059399718001, 40.60180957631444]},
'geometry_name': 'geom',
'properties': {'name': 'Manor Heights',
'stacked': 2,
'annoline1': 'Manor',
'annoline2': 'Heights',
'annoline3': None,
'annoangle': 0.0,
'borough': 'Staten Island',
```

```
'bbox': [-74.12059399718001,
40.60180957631444,
-74.12059399718001,
40.60180957631444]}},
{'type': 'Feature',
'id': 'nyu_2451_34572.286',
'geometry': {'type': 'Point',
'coordinates': [-74.13208447484298, 40.60370692627371]}},
'geometry_name': 'geom',
'properties': {'name': 'Willowbrook',
'stacked': 1,
'annoline1': 'Willowbrook',
'annoline2': None,
'annoline3': None,
'annoangle': 0.0,
'borough': 'Staten Island',
'bbox': [-74.13208447484298,
40.60370692627371,
-74.13208447484298,
40.60370692627371]}},
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'id': 'nyu_2451_34572.287',
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'coordinates': [-74.21776636068567, 40.541139922091766]}},
'geometry_name': 'geom',
'properties': {'name': 'Sandy Ground',
'stacked': 2,
'annoline1': 'Sandy',
'annoline2': 'Ground',
'annoline3': None,
'annoangle': 0.0,
'borough': 'Staten Island',
'bbox': [-74.21776636068567,
40.541139922091766,
-74.21776636068567,
40.541139922091766]}},
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'id': 'nyu_2451_34572.288',
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'coordinates': [-74.12727240604946, 40.579118742961214]}},
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'properties': {'name': 'Egbertville',
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'annoline1': 'Egbertville',
'annoline2': None,
'annoline3': None,
'annoangle': 0.0,
'borough': 'Staten Island',
'bbox': [-74.12727240604946,
40.579118742961214,
-74.12727240604946,
40.579118742961214]}},
{'type': 'Feature',
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'geometry': {'type': 'Point',
'coordinates': [-73.89213760232822, 40.56737588957032]}},
'geometry_name': 'geom',
```

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'properties': {'name': 'Roxbury',
'stacked': 1,
'annoline1': 'Roxbury',
'annoline2': None,
'annoline3': None,
'annoangle': 0.0,
'borough': 'Queens',
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40.56737588957032,
-73.89213760232822,
40.56737588957032]}},
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'coordinates': [-73.95918459428702, 40.598525095137255]},
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'properties': {'name': 'Homecrest',
'stacked': 1,
'annoline1': 'Homecrest',
'annoline2': None,
'annoline3': None,
'annoangle': 0.0,
'borough': 'Brooklyn',
'bbox': [-73.95918459428702,
40.598525095137255,
-73.95918459428702,
40.598525095137255]}},
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'id': 'nyu_2451_34572.291',
'geometry': {'type': 'Point',
'coordinates': [-73.88114319200604, 40.716414511158185]},
'geometry_name': 'geom',
'properties': {'name': 'Middle Village',
'stacked': 2,
'annoline1': 'Middle',
'annoline2': 'Village',
'annoline3': None,
'annoangle': 0.0,
'borough': 'Queens',
'bbox': [-73.88114319200604,
40.716414511158185,
-73.88114319200604,
40.716414511158185]}},
{'type': 'Feature',
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'coordinates': [-74.20152556457658, 40.52626406734812]},
'geometry_name': 'geom',
'properties': {'name': "Prince's Bay",
'stacked': 2,
'annoline1': "Prince's",
'annoline2': 'Bay',
'annoline3': None,
'annoangle': 0.0,
'borough': 'Staten Island',
'bbox': [-74.20152556457658,
40.52626406734812,
```

```
-74.20152556457658,
40.52626406734812]]}},
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 'id': 'nyu_2451_34572.293',
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 'coordinates': [-74.13792663771568, 40.57650629379489]},
 'geometry_name': 'geom',
 'properties': {'name': 'Lighthouse Hill',
 'stacked': 2,
 'annoline1': 'Lighthouse',
 'annoline2': 'Hill',
 'annoline3': None,
 'annoangle': 0.0,
 'borough': 'Staten Island',
 'bbox': [-74.13792663771568,
 40.57650629379489,
 -74.13792663771568,
 40.57650629379489]}},
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 'geometry': {'type': 'Point',
 'coordinates': [-74.22957080626941, 40.51954145748909]},
 'geometry_name': 'geom',
 'properties': {'name': 'Richmond Valley',
 'stacked': 2,
 'annoline1': 'Richmond',
 'annoline2': 'Valley',
 'annoline3': None,
 'annoangle': 0.0,
 'borough': 'Staten Island',
 'bbox': [-74.22957080626941,
 40.51954145748909,
 -74.22957080626941,
 40.51954145748909]}},
{'type': 'Feature',
 'id': 'nyu_2451_34572.295',
 'geometry': {'type': 'Point',
 'coordinates': [-73.82667757138641, 40.79060155670148]},
 'geometry_name': 'geom',
 'properties': {'name': 'Malba',
 'stacked': 1,
 'annoline1': 'Malba',
 'annoline2': None,
 'annoline3': None,
 'annoangle': 0.0,
 'borough': 'Queens',
 'bbox': [-73.82667757138641,
 40.79060155670148,
 -73.82667757138641,
 40.79060155670148]}},
{'type': 'Feature',
 'id': 'nyu_2451_34572.296',
 'geometry': {'type': 'Point',
 'coordinates': [-73.890345709872, 40.6819989345173]},
 'geometry_name': 'geom',
 'properties': {'name': 'Highland Park',
 'stacked': 2,
```

```

'annoline1': 'Highland',
'annoline2': 'Park',
'annoline3': None,
'annoangle': 0.0,
'borough': 'Brooklyn',
'bbox': [-73.890345709872,
40.6819989345173,
-73.890345709872,
40.6819989345173]}},
{'type': 'Feature',
'id': 'nyu_2451_34572.297',
'geometry': {'type': 'Point',
'coordinates': [-73.94841515328893, 40.60937770113766]},
'geometry_name': 'geom',
'properties': {'name': 'Madison',
'stacked': 1,
'annoline1': 'Madison',
'annoline2': None,
'annoline3': None,
'annoangle': 0.0,
'borough': 'Brooklyn',
'bbox': [-73.94841515328893,
40.60937770113766,
-73.94841515328893,
40.60937770113766]}},
{'type': 'Feature',
'id': 'nyu_2451_34572.298',
'geometry': {'type': 'Point',
'coordinates': [-73.86172577555115, 40.85272297633017]},
'geometry_name': 'geom',
'properties': {'name': 'Bronxdale',
'stacked': 1,
'annoline1': 'Bronxdale',
'annoline2': None,
'annoline3': None,
'annoangle': 0.0,
'borough': 'Bronx',
'bbox': [-73.86172577555115,
40.85272297633017,
-73.86172577555115,
40.85272297633017]}},
{'type': 'Feature',
'id': 'nyu_2451_34572.299',
'geometry': {'type': 'Point',
'coordinates': [-73.85931863221647, 40.86578787802982]},
'geometry_name': 'geom',
'properties': {'name': 'Allerton',
'stacked': 1,
'annoline1': 'Allerton',
'annoline2': None,
'annoline3': None,
'annoangle': 0.0,
'borough': 'Bronx',
'bbox': [-73.85931863221647,
40.86578787802982,
-73.85931863221647,
40.86578787802982]}},

```

```
{'type': 'Feature',
'id': 'nyu_2451_34572.300',
'geometry': {'type': 'Point',
'coordinates': [-73.90152264513144, 40.8703923914147]}},
'geometry_name': 'geom',
'properties': {'name': 'Kingsbridge Heights',
'stacked': 2,
'annoline1': 'Kingsbridge',
'annoline2': 'Heights',
'annoline3': None,
'annoangle': 0.0,
'borough': 'Bronx',
'bbox': [-73.90152264513144,
40.8703923914147,
-73.90152264513144,
40.8703923914147]}},
{'type': 'Feature',
'id': 'nyu_2451_34572.301',
'geometry': {'type': 'Point',
'coordinates': [-73.94817709920184, 40.64692606658579]}},
'geometry_name': 'geom',
'properties': {'name': 'Erasmus',
'stacked': 1,
'annoline1': 'Erasmus',
'annoline2': None,
'annoline3': None,
'annoangle': 0.0,
'borough': 'Brooklyn',
'bbox': [-73.94817709920184,
40.64692606658579,
-73.94817709920184,
40.64692606658579]}},
{'type': 'Feature',
'id': 'nyu_2451_34572.302',
'geometry': {'type': 'Point',
'coordinates': [-74.00011136202637, 40.75665808227519]}},
'geometry_name': 'geom',
'properties': {'name': 'Hudson Yards',
'stacked': 2,
'annoline1': 'Hudson',
'annoline2': 'Yards',
'annoline3': None,
'annoangle': 0.0,
'borough': 'Manhattan',
'bbox': [-74.00011136202637,
40.75665808227519,
-74.00011136202637,
40.75665808227519]}},
{'type': 'Feature',
'id': 'nyu_2451_34572.303',
'geometry': {'type': 'Point',
'coordinates': [-73.80553002968718, 40.58733774018741]}},
'geometry_name': 'geom',
'properties': {'name': 'Hammels',
'stacked': 1,
'annoline1': 'Hammels',
'annoline2': None,
```

```

    'annoline3': None,
    'annoangle': 0.0,
    'borough': 'Queens',
    'bbox': [-73.80553002968718,
    40.58733774018741,
    -73.80553002968718,
    40.58733774018741]]},
    {'type': 'Feature',
    'id': 'nyu_2451_34572.304',
    'geometry': {'type': 'Point',
    'coordinates': [-73.76596781445627, 40.611321691283834]}},
    'geometry_name': 'geom',
    'properties': {'name': 'Bayswater',
    'stacked': 1,
    'annoline1': 'Bayswater',
    'annoline2': None,
    'annoline3': None,
    'annoangle': 0.0,
    'borough': 'Queens',
    'bbox': [-73.76596781445627,
    40.611321691283834,
    -73.76596781445627,
    40.611321691283834]}},
    {'type': 'Feature',
    'id': 'nyu_2451_34572.305',
    'geometry': {'type': 'Point',
    'coordinates': [-73.94563070334091, 40.756091297094706]}},
    'geometry_name': 'geom',
    'properties': {'name': 'Queensbridge',
    'stacked': 1,
    'annoline1': 'Queensbridge',
    'annoline2': None,
    'annoline3': None,
    'annoangle': 0.0,
    'borough': 'Queens',
    'bbox': [-73.94563070334091,
    40.756091297094706,
    -73.94563070334091,
    40.756091297094706]}},
    {'type': 'Feature',
    'id': 'nyu_2451_34572.306',
    'geometry': {'type': 'Point',
    'coordinates': [-74.08173992211962, 40.61731079252983]}},
    'geometry_name': 'geom',
    'properties': {'name': 'Fox Hills',
    'stacked': 2,
    'annoline1': 'Fox',
    'annoline2': 'Hills',
    'annoline3': None,
    'annoangle': 0.0,
    'borough': 'Staten Island',
    'bbox': [-74.08173992211962,
    40.61731079252983,
    -74.08173992211962,
    40.61731079252983]}]},
    'crs': {'type': 'name', 'properties': {'name': 'urn:ogc:def:crs:EPSG::4326'}}},

```

```
'bbox': [-74.2492599487305,  
40.5033187866211,  
-73.7061614990234,  
40.9105606079102]]}
```

In [47]:

```
neighborhoods_data = newyork_data['features']
```

In [48]:

```
neighborhoods_data[0]
```

Out[48]:

```
{'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 [49]:

```
# define the dataframe columns  
column_names = ['Borough', 'Neighborhood', 'Latitude', 'Longitude']  
  
# instantiate the dataframe  
neighborhoods = pd.DataFrame(columns=column_names)
```

In [50]:

```
neighborhoods
```

Out[50]:

Borough	Neighborhood	Latitude	Longitude
---------	--------------	----------	-----------



In [51]:

```
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
e)
```

In [52]:

```
neighborhoods
```

Out[52]:

	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
5	Bronx	Kingsbridge	40.881687	-73.902818
6	Manhattan	Marble Hill	40.876551	-73.910660
7	Bronx	Woodlawn	40.898273	-73.867315
8	Bronx	Norwood	40.877224	-73.879391
9	Bronx	Williamsbridge	40.881039	-73.857446
10	Bronx	Baychester	40.866858	-73.835798
11	Bronx	Pelham Parkway	40.857413	-73.854756
12	Bronx	City Island	40.847247	-73.786488
13	Bronx	Bedford Park	40.870185	-73.885512
14	Bronx	University Heights	40.855727	-73.910416
15	Bronx	Morris Heights	40.847898	-73.919672
16	Bronx	Fordham	40.860997	-73.896427
17	Bronx	East Tremont	40.842696	-73.887356
18	Bronx	West Farms	40.839475	-73.877745
19	Bronx	High Bridge	40.836623	-73.926102
20	Bronx	Melrose	40.819754	-73.909422
21	Bronx	Mott Haven	40.806239	-73.916100
22	Bronx	Port Morris	40.801664	-73.913221
23	Bronx	Longwood	40.815099	-73.895788
24	Bronx	Hunts Point	40.809730	-73.883315
25	Bronx	Morrisania	40.823592	-73.901506
26	Bronx	Soundview	40.821012	-73.865746
27	Bronx	Clason Point	40.806551	-73.854144
28	Bronx	Throgs Neck	40.815109	-73.816350
29	Bronx	Country Club	40.844246	-73.824099
30	Bronx	Parkchester	40.837938	-73.856003
31	Bronx	Westchester Square	40.840619	-73.842194
32	Bronx	Van Nest	40.843608	-73.866299
33	Bronx	Morris Park	40.847549	-73.850402

	<b>Borough</b>	<b>Neighborhood</b>	<b>Latitude</b>	<b>Longitude</b>
<b>34</b>	Bronx	Belmont	40.857277	-73.888452
<b>35</b>	Bronx	Spuyten Duyvil	40.881395	-73.917190
<b>36</b>	Bronx	North Riverdale	40.908543	-73.904531
<b>37</b>	Bronx	Pelham Bay	40.850641	-73.832074
<b>38</b>	Bronx	Schuylerville	40.826580	-73.826203
<b>39</b>	Bronx	Edgewater Park	40.821986	-73.813885
<b>40</b>	Bronx	Castle Hill	40.819014	-73.848027
<b>41</b>	Bronx	Olinville	40.871371	-73.863324
<b>42</b>	Bronx	Pelham Gardens	40.862966	-73.841612
<b>43</b>	Bronx	Concourse	40.834284	-73.915589
<b>44</b>	Bronx	Unionport	40.829774	-73.850535
<b>45</b>	Bronx	Edenwald	40.884561	-73.848083
<b>46</b>	Brooklyn	Bay Ridge	40.625801	-74.030621
<b>47</b>	Brooklyn	Bensonhurst	40.611009	-73.995180
<b>48</b>	Brooklyn	Sunset Park	40.645103	-74.010316
<b>49</b>	Brooklyn	Greenpoint	40.730201	-73.954241
<b>50</b>	Brooklyn	Gravesend	40.595260	-73.973471
<b>51</b>	Brooklyn	Brighton Beach	40.576825	-73.965094
<b>52</b>	Brooklyn	Sheepshead Bay	40.586890	-73.943186
<b>53</b>	Brooklyn	Manhattan Terrace	40.614433	-73.957438
<b>54</b>	Brooklyn	Flatbush	40.636326	-73.958401
<b>55</b>	Brooklyn	Crown Heights	40.670829	-73.943291
<b>56</b>	Brooklyn	East Flatbush	40.641718	-73.936103
<b>57</b>	Brooklyn	Kensington	40.642382	-73.980421
<b>58</b>	Brooklyn	Windsor Terrace	40.656946	-73.980073
<b>59</b>	Brooklyn	Prospect Heights	40.676822	-73.964859
<b>60</b>	Brooklyn	Brownsville	40.663950	-73.910235
<b>61</b>	Brooklyn	Williamsburg	40.707144	-73.958115
<b>62</b>	Brooklyn	Bushwick	40.698116	-73.925258
<b>63</b>	Brooklyn	Bedford Stuyvesant	40.687232	-73.941785
<b>64</b>	Brooklyn	Brooklyn Heights	40.695864	-73.993782
<b>65</b>	Brooklyn	Cobble Hill	40.687920	-73.998561
<b>66</b>	Brooklyn	Carroll Gardens	40.680540	-73.994654
<b>67</b>	Brooklyn	Red Hook	40.676253	-74.012759
<b>68</b>	Brooklyn	Gowanus	40.673931	-73.994441
<b>69</b>	Brooklyn	Fort Greene	40.688527	-73.972906

	<b>Borough</b>	<b>Neighborhood</b>	<b>Latitude</b>	<b>Longitude</b>
70	Brooklyn	Park Slope	40.672321	-73.977050
71	Brooklyn	Cypress Hills	40.682391	-73.876616
72	Brooklyn	East New York	40.669926	-73.880699
73	Brooklyn	Starrett City	40.647589	-73.879370
74	Brooklyn	Canarsie	40.635564	-73.902093
75	Brooklyn	Flatlands	40.630446	-73.929113
76	Brooklyn	Mill Island	40.606336	-73.908186
77	Brooklyn	Manhattan Beach	40.577914	-73.943537
78	Brooklyn	Coney Island	40.574293	-73.988683
79	Brooklyn	Bath Beach	40.599519	-73.998752
80	Brooklyn	Borough Park	40.633131	-73.990498
81	Brooklyn	Dyker Heights	40.619219	-74.019314
82	Brooklyn	Gerritsen Beach	40.590848	-73.930102
83	Brooklyn	Marine Park	40.609748	-73.931344
84	Brooklyn	Clinton Hill	40.693229	-73.967843
85	Brooklyn	Sea Gate	40.576375	-74.007873
86	Brooklyn	Downtown	40.690844	-73.983463
87	Brooklyn	Boerum Hill	40.685683	-73.983748
88	Brooklyn	Prospect Lefferts Gardens	40.658420	-73.954899
89	Brooklyn	Ocean Hill	40.678403	-73.913068
90	Brooklyn	City Line	40.678570	-73.867976
91	Brooklyn	Bergen Beach	40.615150	-73.898556
92	Brooklyn	Midwood	40.625596	-73.957595
93	Brooklyn	Prospect Park South	40.647009	-73.962613
94	Brooklyn	Georgetown	40.623845	-73.916075
95	Brooklyn	East Williamsburg	40.708492	-73.938858
96	Brooklyn	North Side	40.714823	-73.958809
97	Brooklyn	South Side	40.710861	-73.958001
98	Brooklyn	Ocean Parkway	40.613060	-73.968367
99	Brooklyn	Fort Hamilton	40.614768	-74.031979
100	Manhattan	Chinatown	40.715618	-73.994279
101	Manhattan	Washington Heights	40.851903	-73.936900
102	Manhattan	Inwood	40.867684	-73.921210
103	Manhattan	Hamilton Heights	40.823604	-73.949688
104	Manhattan	Manhattanville	40.816934	-73.957385
105	Manhattan	Central Harlem	40.815976	-73.943211

	<b>Borough</b>	<b>Neighborhood</b>	<b>Latitude</b>	<b>Longitude</b>
106	Manhattan	East Harlem	40.792249	-73.944182
107	Manhattan	Upper East Side	40.775639	-73.960508
108	Manhattan	Yorkville	40.775930	-73.947118
109	Manhattan	Lenox Hill	40.768113	-73.958860
110	Manhattan	Roosevelt Island	40.762160	-73.949168
111	Manhattan	Upper West Side	40.787658	-73.977059
112	Manhattan	Lincoln Square	40.773529	-73.985338
113	Manhattan	Clinton	40.759101	-73.996119
114	Manhattan	Midtown	40.754691	-73.981669
115	Manhattan	Murray Hill	40.748303	-73.978332
116	Manhattan	Chelsea	40.744035	-74.003116
117	Manhattan	Greenwich Village	40.726933	-73.999914
118	Manhattan	East Village	40.727847	-73.982226
119	Manhattan	Lower East Side	40.717807	-73.980890
120	Manhattan	Tribeca	40.721522	-74.010683
121	Manhattan	Little Italy	40.719324	-73.997305
122	Manhattan	Soho	40.722184	-74.000657
123	Manhattan	West Village	40.734434	-74.006180
124	Manhattan	Manhattan Valley	40.797307	-73.964286
125	Manhattan	Morningside Heights	40.808000	-73.963896
126	Manhattan	Gramercy	40.737210	-73.981376
127	Manhattan	Battery Park City	40.711932	-74.016869
128	Manhattan	Financial District	40.707107	-74.010665
129	Queens	Astoria	40.768509	-73.915654
130	Queens	Woodside	40.746349	-73.901842
131	Queens	Jackson Heights	40.751981	-73.882821
132	Queens	Elmhurst	40.744049	-73.881656
133	Queens	Howard Beach	40.654225	-73.838138
134	Queens	Corona	40.742382	-73.856825
135	Queens	Forest Hills	40.725264	-73.844475
136	Queens	Kew Gardens	40.705179	-73.829819
137	Queens	Richmond Hill	40.697947	-73.831833
138	Queens	Flushing	40.764454	-73.831773
139	Queens	Long Island City	40.750217	-73.939202
140	Queens	Sunnyside	40.740176	-73.926916
141	Queens	East Elmhurst	40.764073	-73.867041

	<b>Borough</b>	<b>Neighborhood</b>	<b>Latitude</b>	<b>Longitude</b>
<b>142</b>	Queens	Maspeth	40.725427	-73.896217
<b>143</b>	Queens	Ridgewood	40.708323	-73.901435
<b>144</b>	Queens	Glendale	40.702762	-73.870742
<b>145</b>	Queens	Rego Park	40.728974	-73.857827
<b>146</b>	Queens	Woodhaven	40.689887	-73.858110
<b>147</b>	Queens	Ozone Park	40.680708	-73.843203
<b>148</b>	Queens	South Ozone Park	40.668550	-73.809865
<b>149</b>	Queens	College Point	40.784903	-73.843045
<b>150</b>	Queens	Whitestone	40.781291	-73.814202
<b>151</b>	Queens	Bayside	40.766041	-73.774274
<b>152</b>	Queens	Auburndale	40.761730	-73.791762
<b>153</b>	Queens	Little Neck	40.770826	-73.738898
<b>154</b>	Queens	Douglaston	40.766846	-73.742498
<b>155</b>	Queens	Glen Oaks	40.749441	-73.715481
<b>156</b>	Queens	Bellerose	40.728573	-73.720128
<b>157</b>	Queens	Kew Gardens Hills	40.722578	-73.820878
<b>158</b>	Queens	Fresh Meadows	40.734394	-73.782713
<b>159</b>	Queens	Briarwood	40.710935	-73.811748
<b>160</b>	Queens	Jamaica Center	40.704657	-73.796902
<b>161</b>	Queens	Oakland Gardens	40.745619	-73.754950
<b>162</b>	Queens	Queens Village	40.718893	-73.738715
<b>163</b>	Queens	Hollis	40.711243	-73.759250
<b>164</b>	Queens	South Jamaica	40.696911	-73.790426
<b>165</b>	Queens	St. Albans	40.694445	-73.758676
<b>166</b>	Queens	Rochdale	40.675211	-73.772588
<b>167</b>	Queens	Springfield Gardens	40.666230	-73.760421
<b>168</b>	Queens	Cambria Heights	40.692775	-73.735269
<b>169</b>	Queens	Rosedale	40.659816	-73.735261
<b>170</b>	Queens	Far Rockaway	40.603134	-73.754980
<b>171</b>	Queens	Broad Channel	40.603027	-73.820055
<b>172</b>	Queens	Breezy Point	40.557401	-73.925512
<b>173</b>	Queens	Steinway	40.775923	-73.902290
<b>174</b>	Queens	Beechhurst	40.792781	-73.804365
<b>175</b>	Queens	Bay Terrace	40.782843	-73.776802
<b>176</b>	Queens	Edgemere	40.595642	-73.776133
<b>177</b>	Queens	Arverne	40.589144	-73.791992

	<b>Borough</b>	<b>Neighborhood</b>	<b>Latitude</b>	<b>Longitude</b>
178	Queens	Rockaway Beach	40.582802	-73.822361
179	Queens	Neponsit	40.572037	-73.857547
180	Queens	Murray Hill	40.764126	-73.812763
181	Queens	Floral Park	40.741378	-73.708847
182	Queens	Holliswood	40.720957	-73.767142
183	Queens	Jamaica Estates	40.716805	-73.787227
184	Queens	Queensboro Hill	40.744572	-73.825809
185	Queens	Hillcrest	40.723825	-73.797603
186	Queens	Ravenswood	40.761705	-73.931575
187	Queens	Lindenwood	40.663918	-73.849638
188	Queens	Laurelton	40.667884	-73.740256
189	Queens	Lefrak City	40.736075	-73.862525
190	Queens	Belle Harbor	40.576156	-73.854018
191	Queens	Rockaway Park	40.580343	-73.841534
192	Queens	Somerville	40.597711	-73.796648
193	Queens	Brookville	40.660003	-73.751753
194	Queens	Bellaire	40.733014	-73.738892
195	Queens	North Corona	40.754071	-73.857518
196	Queens	Forest Hills Gardens	40.714611	-73.841022
197	Staten Island	St. George	40.644982	-74.079353
198	Staten Island	New Brighton	40.640615	-74.087017
199	Staten Island	Stapleton	40.626928	-74.077902
200	Staten Island	Rosebank	40.615305	-74.069805
201	Staten Island	West Brighton	40.631879	-74.107182
202	Staten Island	Grymes Hill	40.624185	-74.087248
203	Staten Island	Todt Hill	40.597069	-74.111329
204	Staten Island	South Beach	40.580247	-74.079553
205	Staten Island	Port Richmond	40.633669	-74.129434
206	Staten Island	Mariner's Harbor	40.632546	-74.150085
207	Staten Island	Port Ivory	40.639683	-74.174645
208	Staten Island	Castleton Corners	40.613336	-74.119181
209	Staten Island	New Springville	40.594252	-74.164960
210	Staten Island	Travis	40.586314	-74.190737
211	Staten Island	New Dorp	40.572572	-74.116479
212	Staten Island	Oakwood	40.558462	-74.121566
213	Staten Island	Great Kills	40.549480	-74.149324



	<b>Borough</b>	<b>Neighborhood</b>	<b>Latitude</b>	<b>Longitude</b>
<b>214</b>	Staten Island	Eltingville	40.542231	-74.164331
<b>215</b>	Staten Island	Annadale	40.538114	-74.178549
<b>216</b>	Staten Island	Woodrow	40.541968	-74.205246
<b>217</b>	Staten Island	Tottenville	40.505334	-74.246569
<b>218</b>	Staten Island	Tompkinsville	40.637316	-74.080554
<b>219</b>	Staten Island	Silver Lake	40.619193	-74.096290
<b>220</b>	Staten Island	Sunnyside	40.612760	-74.097126
<b>221</b>	Brooklyn	Ditmas Park	40.643675	-73.961013
<b>222</b>	Brooklyn	Wingate	40.660947	-73.937187
<b>223</b>	Brooklyn	Rugby	40.655572	-73.926882
<b>224</b>	Staten Island	Park Hill	40.609190	-74.080157
<b>225</b>	Staten Island	Westerleigh	40.621090	-74.133041
<b>226</b>	Staten Island	Graniteville	40.620172	-74.153152
<b>227</b>	Staten Island	Arlington	40.635325	-74.165104
<b>228</b>	Staten Island	Arrochar	40.596313	-74.067124
<b>229</b>	Staten Island	Grasmere	40.598268	-74.076674
<b>230</b>	Staten Island	Old Town	40.596329	-74.087511
<b>231</b>	Staten Island	Dongan Hills	40.588673	-74.096399
<b>232</b>	Staten Island	Midland Beach	40.573527	-74.093483
<b>233</b>	Staten Island	Grant City	40.576216	-74.105856
<b>234</b>	Staten Island	New Dorp Beach	40.564255	-74.104327
<b>235</b>	Staten Island	Bay Terrace	40.553988	-74.139166
<b>236</b>	Staten Island	Huguenot	40.531912	-74.191741
<b>237</b>	Staten Island	Pleasant Plains	40.524699	-74.219831
<b>238</b>	Staten Island	Butler Manor	40.506082	-74.229504
<b>239</b>	Staten Island	Charleston	40.530531	-74.232158
<b>240</b>	Staten Island	Rossville	40.549404	-74.215729
<b>241</b>	Staten Island	Arden Heights	40.549286	-74.185887
<b>242</b>	Staten Island	Greenridge	40.555295	-74.170794
<b>243</b>	Staten Island	Heartland Village	40.589139	-74.159022
<b>244</b>	Staten Island	Chelsea	40.594726	-74.189560
<b>245</b>	Staten Island	Bloomfield	40.605779	-74.187256
<b>246</b>	Staten Island	Bulls Head	40.609592	-74.159409
<b>247</b>	Manhattan	Carnegie Hill	40.782683	-73.953256
<b>248</b>	Manhattan	Noho	40.723259	-73.988434
<b>249</b>	Manhattan	Civic Center	40.715229	-74.005415

	<b>Borough</b>	<b>Neighborhood</b>	<b>Latitude</b>	<b>Longitude</b>
<b>250</b>	Manhattan	Midtown South	40.748510	-73.988713
<b>251</b>	Staten Island	Richmond Town	40.569606	-74.134057
<b>252</b>	Staten Island	Shore Acres	40.609719	-74.066678
<b>253</b>	Staten Island	Clifton	40.619178	-74.072642
<b>254</b>	Staten Island	Concord	40.604473	-74.084024
<b>255</b>	Staten Island	Emerson Hill	40.606794	-74.097762
<b>256</b>	Staten Island	Randall Manor	40.635630	-74.098051
<b>257</b>	Staten Island	Howland Hook	40.638433	-74.186223
<b>258</b>	Staten Island	Elm Park	40.630147	-74.141817
<b>259</b>	Brooklyn	Remsen Village	40.652117	-73.916653
<b>260</b>	Brooklyn	New Lots	40.662744	-73.885118
<b>261</b>	Brooklyn	Paerdegat Basin	40.631318	-73.902335
<b>262</b>	Brooklyn	Mill Basin	40.615974	-73.915154
<b>263</b>	Queens	Jamaica Hills	40.711460	-73.796465
<b>264</b>	Queens	Utopia	40.733500	-73.796717
<b>265</b>	Queens	Pomonok	40.734936	-73.804861
<b>266</b>	Queens	Astoria Heights	40.770317	-73.894680
<b>267</b>	Bronx	Claremont Village	40.831428	-73.901199
<b>268</b>	Bronx	Concourse Village	40.824780	-73.915847
<b>269</b>	Bronx	Mount Eden	40.843826	-73.916556
<b>270</b>	Bronx	Mount Hope	40.848842	-73.908299
<b>271</b>	Manhattan	Sutton Place	40.760280	-73.963556
<b>272</b>	Queens	Hunters Point	40.743414	-73.953868
<b>273</b>	Manhattan	Turtle Bay	40.752042	-73.967708
<b>274</b>	Manhattan	Tudor City	40.746917	-73.971219
<b>275</b>	Manhattan	Stuyvesant Town	40.731000	-73.974052
<b>276</b>	Manhattan	Flatiron	40.739673	-73.990947
<b>277</b>	Queens	Sunnyside Gardens	40.745652	-73.918193
<b>278</b>	Queens	Blissville	40.737251	-73.932442
<b>279</b>	Brooklyn	Fulton Ferry	40.703281	-73.995508
<b>280</b>	Brooklyn	Vinegar Hill	40.703321	-73.981116
<b>281</b>	Brooklyn	Weeksville	40.675040	-73.930531
<b>282</b>	Brooklyn	Broadway Junction	40.677861	-73.903317
<b>283</b>	Brooklyn	Dumbo	40.703176	-73.988753
<b>284</b>	Staten Island	Manor Heights	40.601810	-74.120594
<b>285</b>	Staten Island	Willowbrook	40.603707	-74.132084

	Borough	Neighborhood	Latitude	Longitude
286	Staten Island	Sandy Ground	40.541140	-74.217766
287	Staten Island	Egbertville	40.579119	-74.127272
288	Queens	Roxbury	40.567376	-73.892138
289	Brooklyn	Homecrest	40.598525	-73.959185
290	Queens	Middle Village	40.716415	-73.881143
291	Staten Island	Prince's Bay	40.526264	-74.201526
292	Staten Island	Lighthouse Hill	40.576506	-74.137927
293	Staten Island	Richmond Valley	40.519541	-74.229571
294	Queens	Malba	40.790602	-73.826678
295	Brooklyn	Highland Park	40.681999	-73.890346
296	Brooklyn	Madison	40.609378	-73.948415
297	Bronx	Bronxdale	40.852723	-73.861726
298	Bronx	Allerton	40.865788	-73.859319
299	Bronx	Kingsbridge Heights	40.870392	-73.901523
300	Brooklyn	Erasmus	40.646926	-73.948177
301	Manhattan	Hudson Yards	40.756658	-74.000111
302	Queens	Hammels	40.587338	-73.805530
303	Queens	Bayswater	40.611322	-73.765968
304	Queens	Queensbridge	40.756091	-73.945631
305	Staten Island	Fox Hills	40.617311	-74.081740

In [53]:

```
print('The dataframe has {} boroughs and {} neighborhoods.'.format(
    len(neighborhoods['Borough'].unique()),
    neighborhood.shape[0]
))
```

The dataframe has 5 boroughs and 306 neighborhoods.

In [54]:

```
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.

**Create a map of New York with neighborhoods superimposed on top.**

In [55]:

```
# 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[55]:

**Let's simplify the above map and segment and cluster only the neighborhoods in Queens. So let's slice the original dataframe and create a new dataframe of the Queens data.**

In [56]:

```
Queens_data = neighborhoods[neighborhoods['Borough'] == 'Queens'].reset_index(drop=True)
Queens_data.head()
```

Out[56]:

	Borough	Neighborhood	Latitude	Longitude
0	Queens	Astoria	40.768509	-73.915654
1	Queens	Woodside	40.746349	-73.901842
2	Queens	Jackson Heights	40.751981	-73.882821
3	Queens	Elmhurst	40.744049	-73.881656
4	Queens	Howard Beach	40.654225	-73.838138

In [57]:

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

The geographical coordinate of Queens are 40.6524927, -73.7914214158161.

In [58]:

```
# create map of Queens using Latitude and Longitude values
map_Queens = folium.Map(location=[latitude, longitude], zoom_start=11)
# add markers to map
for lat, lng, label in zip(Queens_data['Latitude'], Queens_data['Longitude'], Queens_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_Queens)

map_Queens
```

Out[58]:

## 4.Data Modelling

### Define Foursquare Credentials and Version

In [59]:

```
CLIENT_ID = 'HZWQATJKJFBOW35GMHRSYLLJ5UG4HHYVT0NINAR4VFASGSY0' # your Foursquare ID
CLIENT_SECRET = '0QOE2DPPCVSYUBN1UN3JOMHNGP5EUKXP3PQHBV534DWDKKO' # your Foursquare Secret
VERSION = '20180605' # Foursquare API version
print('Your credentials:')
print('CLIENT_ID: ' + CLIENT_ID)
print('CLIENT_SECRET: ' + CLIENT_SECRET)
```

Your credentials:

```
CLIENT_ID: HZWQATJKJFBOW35GMHRSYLLJ5UG4HHYVT0NINAR4VFASGSY0
CLIENT_SECRET: 0QOE2DPPCVSYUBN1UN3JOMHNGP5EUKXP3PQHBV534DWDKKO
```

In [60]:

```
Queens_data.loc[0, 'Neighborhood']
```

Out[60]:

'Astoria'

In [61]:

```
neighborhood_latitude = Queens_data.loc[0, 'Latitude'] # neighborhood latitude value
neighborhood_longitude = Queens_data.loc[0, 'Longitude'] # neighborhood longitude value
neighborhood_name = Queens_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 Astoria are 40.76850859335492, -73.91565374304234.

In [62]:

```
LIMIT = 100 # limit of number of venues returned by Foursquare API
radius = 500 # define radius
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 # display URL
```

Out[62]:

```
'https://api.foursquare.com/v2/venues/explore?&client_id=HZWQATJKJFBOW35GMHRSYLLJ5UG4HHYVT0NINAR4VFASGSY0&client_secret=0QOE2DPPCVSYUBN1UN3JOMHNGP5EUKXP3PQHBV534DWDKKO&v=20180605&ll=40.76850859335492,-73.91565374304234&radius=500&limit=100'
```

In [63]:

```
results = requests.get(url).json()  
results
```



Out[63]:

```
{
  'meta': {
    'code': 200,
    'requestId': '5d2c62c7bf7dde002c2021bb'
  },
  'response': {
    'suggestedFilters': {
      'header': 'Tap to show:',
      'filters': [
        {
          'name': '$-$$$$',
          'key': 'price'
        },
        {
          'name': 'Open now',
          'key': 'openNow'
        }
      ]
    },
    'headerLocation': 'Astoria',
    'headerFullLocation': 'Astoria, Queens',
    'headerLocationGranularity': 'neighborhood',
    'totalResults': 109,
    'suggestedBounds': {
      'ne': {
        'lat': 40.773008597854925,
        'lng': -73.90972309237958
      },
      'sw': {
        'lat': 40.76400858885492,
        'lng': -73.9215843937051
      }
    },
    'groups': [
      {
        'type': 'Recommended Places',
        'name': 'recommended',
        'items': [
          {
            'reasons': {
              'count': 0,
              'items': [
                {
                  'summary': 'This spot is popular',
                  'type': 'general',
                  'reasonName': 'globalInteractionReason'
                }
              ]
            },
            'venue': {
              'id': '4bdf502a89ca76b062b75d5e',
              'name': 'Favela Grill',
              'location': {
                'address': '33-18 28th Ave',
                'crossStreet': 'btwn 33rd & 34th St.',
                'lat': 40.76734843380796,
                'lng': -73.91789747356819,
                'labeledLatLngs': [
                  {
                    'label': 'display',
                    'lat': 40.76734843380796,
                    'lng': -73.91789747356819
                  }
                ],
                'distance': 229,
                'postalCode': '11103',
                'cc': 'US',
                'city': 'Astoria',
                'state': 'NY',
                'country': 'United States',
                'formattedAddress': [
                  '33-18 28th Ave (btwn 33rd & 34th St.)',
                  'Astoria, NY 11103',
                  'United States'
                ]
              },
              'categories': [
                {
                  'id': '4bf58dd8d48988d16b941735',
                  'name': 'Brazilian Restaurant',
                  'pluralName': 'Brazilian Restaurants',
                  'shortName': 'Brazilian',
                  'icon': {
                    'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/argentinian_',
                    'suffix': '.png',
                    'primary': True
                  }
                }
              ],
              'delivery': {
                'id': '289413',
                'url': 'https://www.seamless.com/menu/favela-brazilian-cuisine-33-18-28th-ave-astoria/289413?affiliate=1131&utm_source=foursquare-affiliate-network&utm_medium=affiliate&utm_campaign=1131&utm_content=289413',
                'provider': {
                  'name': 'seamless',
                  'icon': {
                    'prefix': 'https://fastly.4sqi.net/img/general/cap/',
                    'sizes': [40, 50],
                    'name': '/delivery_provider_seamless_20180129.png'
                  }
                },
                'photos': {
                  'count': 0,
                  'groups': []
                },
                'referralId': 'e-0-4bdf502a89ca76b062b75d5e-0',
                'reasons': {
                  'count': 0,
                  'items': [
                    {
                      'summary': 'This spot is popular',

```

```

    'type': 'general',
    'reasonName': 'globalInteractionReason']]],
'venuue': {'id': '4c94d26d58d4b60c40fc2b29',
'name': 'CrossFit Queens',
'location': {'address': '25-50 31st St',
'crossStreet': 'Astoria Blvd',
'lat': 40.76940404539832,
'lng': -73.91897736979166,
'labeledLatLngs': [{'label': 'display',
'lat': 40.76940404539832,
'lng': -73.91897736979166}]},
'distance': 297,
'postalCode': '11102',
'cc': 'US',
'city': 'Astoria',
'state': 'NY',
'country': 'United States',
'formattedAddress': ['25-50 31st St (Astoria Blvd)',
'Astoria, NY 11102',
'United States']},
'categories': [{'id': '4bf58dd8d48988d176941735',
'name': 'Gym',
'pluralName': 'Gyms',
'shortName': 'Gym',
'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/building/
gym_',
'suffix': '.png'},
'primary': True}],
'photos': {'count': 0, 'groups': []}},
'referralId': 'e-0-4c94d26d58d4b60c40fc2b29-1'},
{'reasons': {'count': 0,
'items': [{'summary': 'This spot is popular',
'type': 'general',
'reasonName': 'globalInteractionReason']]],
'venuue': {'id': '4a9c0105f964a520b03520e3',
'name': 'Titan Foods Inc.',
'location': {'address': '25-56 31st St',
'crossStreet': 'btwn 28th Rd. & Newtown Ave.',
'lat': 40.76919777900986,
'lng': -73.9192530467441,
'labeledLatLngs': [{'label': 'display',
'lat': 40.76919777900986,
'lng': -73.9192530467441}]},
'distance': 312,
'postalCode': '11102',
'cc': 'US',
'city': 'Astoria',
'state': 'NY',
'country': 'United States',
'formattedAddress': ['25-56 31st St (btwn 28th Rd. & Newtown Ave.)',
'Astoria, NY 11102',
'United States']},
'categories': [{'id': '4bf58dd8d48988d1f5941735',
'name': 'Gourmet Shop',
'pluralName': 'Gourmet Shops',
'shortName': 'Gourmet',
'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/shops/foo

```

```

d_gourmet_',
  'suffix': '.png'},
  'primary': True]],
  'photos': {'count': 0, 'groups': []},
  'venuePage': {'id': '68301435'}},
  'referralId': 'e-0-4a9c0105f964a520b03520e3-2'},
{'reasons': {'count': 0,
  'items': [{'summary': 'This spot is popular',
    'type': 'general',
    'reasonName': 'globalInteractionReason'}]},
  'venue': {'id': '52c580e8498eddd52d925dd9',
    'name': 'Orange Blossom',
    'location': {'lat': 40.76985614579503,
      'lng': -73.9170119137407,
      'labeledLatLngs': [{'label': 'display',
        'lat': 40.76985614579503,
        'lng': -73.9170119137407}]},
    'distance': 188,
    'cc': 'US',
    'city': 'Queens',
    'state': 'NY',
    'country': 'United States',
    'formattedAddress': ['Queens, NY', 'United States']},
  'categories': [{'id': '4bf58dd8d48988d1f5941735',
    'name': 'Gourmet Shop',
    'pluralName': 'Gourmet Shops',
    'shortName': 'Gourmet',
    'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/shops/fo
d_gourmet_',
  'suffix': '.png'},
  'primary': True]],
  'photos': {'count': 0, 'groups': []},
  'referralId': 'e-0-52c580e8498eddd52d925dd9-3'},
{'reasons': {'count': 0,
  'items': [{'summary': 'This spot is popular',
    'type': 'general',
    'reasonName': 'globalInteractionReason'}]},
  'venue': {'id': '4d7ce85486cfa14365a2d2a0',
    'name': 'Simply Fit Astoria',
    'location': {'address': '37-16 Astoria Blvd',
      'crossStreet': 'at 25 Ave',
      'lat': 40.76911377971976,
      'lng': -73.91240303580314,
      'labeledLatLngs': [{'label': 'display',
        'lat': 40.76911377971976,
        'lng': -73.91240303580314}]},
    'distance': 282,
    'postalCode': '11103',
    'cc': 'US',
    'city': 'Astoria',
    'state': 'NY',
    'country': 'United States',
    'formattedAddress': ['37-16 Astoria Blvd (at 25 Ave)',
      'Astoria, NY 11103',
      'United States']},
  'categories': [{'id': '4bf58dd8d48988d176941735',
    'name': 'Gym',

```

```

    'pluralName': 'Gyms',
    'shortName': 'Gym',
    'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/building/
gym_',
    'suffix': '.png'},
    'primary': True}},
    'photos': {'count': 0, 'groups': []}},
    'referralId': 'e-0-4d7ce85486cfa14365a2d2a0-4'},
    {'reasons': {'count': 0,
    'items': [{'summary': 'This spot is popular',
    'type': 'general',
    'reasonName': 'globalInteractionReason'}]}},
    'venue': {'id': '514f9fd5e4b023ae1edd4a68',
    'name': 'Off The Hook',
    'location': {'address': '28-08 34th St',
    'crossStreet': 'btwn 28th & 30th Ave.',
    'lat': 40.76720036066658,
    'lng': -73.91810419486981,
    'labeledLatLngs': [{'label': 'display',
    'lat': 40.76720036066658,
    'lng': -73.91810419486981}]},
    'distance': 252,
    'postalCode': '11103',
    'cc': 'US',
    'city': 'Astoria',
    'state': 'NY',
    'country': 'United States',
    'formattedAddress': ['28-08 34th St (btwn 28th & 30th Ave.)',
    'Astoria, NY 11103',
    'United States']},
    'categories': [{'id': '4bf58dd8d48988d1ce941735',
    'name': 'Seafood Restaurant',
    'pluralName': 'Seafood Restaurants',
    'shortName': 'Seafood',
    'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/seaf
ood_',
    'suffix': '.png'},
    'primary': True}},
    'delivery': {'id': '299409',
    'url': 'https://www.seamless.com/menu/off-the-hook-raw-bar--grill-28-
08-34th-st-astoria/299409?affiliate=1131&utm_source=foursquare-affiliate-netw
ork&utm_medium=affiliate&utm_campaign=1131&utm_content=299409',
    'provider': {'name': 'seamless',
    'icon': {'prefix': 'https://fastly.4sqi.net/img/general/cap/',
    'sizes': [40, 50],
    'name': '/delivery_provider_seamless_20180129.png'}}},
    'photos': {'count': 0, 'groups': []},
    'venuePage': {'id': '79257111'}},
    'referralId': 'e-0-514f9fd5e4b023ae1edd4a68-5'},
    {'reasons': {'count': 0,
    'items': [{'summary': 'This spot is popular',
    'type': 'general',
    'reasonName': 'globalInteractionReason'}]}},
    'venue': {'id': '5208fbc011d228eef0972843',
    'name': 'Sitan Muay Thai',
    'location': {'address': '25-73 Steinway St',
    'lat': 40.76610776852132,

```

```

'lng': -73.9132238599876,
'labeledLatLngs': [{'label': 'display',
  'lat': 40.76610776852132,
  'lng': -73.9132238599876}],
'distance': 336,
'postalCode': '11103',
'cc': 'US',
'city': 'Astoria',
'state': 'NY',
'country': 'United States',
'formattedAddress': ['25-73 Steinway St',
  'Astoria, NY 11103',
  'United States']],
'categories': [{'id': '4bf58dd8d48988d101941735',
  'name': 'Martial Arts Dojo',
  'pluralName': 'Martial Arts Dojos',
  'shortName': 'Martial Arts',
  'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/shops/gym
_martialarts_',
  'suffix': '.png'},
  'primary': True}],
'photos': {'count': 0, 'groups': []},
'venuePage': {'id': '83742041'}},
'referralId': 'e-0-5208fbc011d228eef0972843-6'},
{'reasons': {'count': 0,
  'items': [{'summary': 'This spot is popular',
  'type': 'general',
  'reasonName': 'globalInteractionReason'}]},
'venue': {'id': '4ba58abaf964a520d01039e3',
  'name': 'Al-sham Sweets and Pastries',
  'location': {'address': '24-39 Steinway St',
  'crossStreet': 'Astoria Boulevard & 25th Avenue',
  'lat': 40.768076961690774,
  'lng': -73.91156100683968,
  'labeledLatLngs': [{'label': 'display',
  'lat': 40.768076961690774,
  'lng': -73.91156100683968}],
  'distance': 348,
  'postalCode': '11103',
  'cc': 'US',
  'neighborhood': 'Astoria',
  'city': 'Astoria',
  'state': 'NY',
  'country': 'United States',
  'formattedAddress': ['24-39 Steinway St (Astoria Boulevard & 25th Ave
nue)',
  'Astoria, NY 11103',
  'United States']],
'categories': [{'id': '4bf58dd8d48988d115941735',
  'name': 'Middle Eastern Restaurant',
  'pluralName': 'Middle Eastern Restaurants',
  'shortName': 'Middle Eastern',
  'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/midd
leeastern_',
  'suffix': '.png'},
  'primary': True}],
'photos': {'count': 0, 'groups': []}},

```

```

'referralId': 'e-0-4ba58abaf964a520d01039e3-7'},
{'reasons': {'count': 0,
  'items': [{'summary': 'This spot is popular',
    'type': 'general',
    'reasonName': 'globalInteractionReason'}]}],
'venu': {'id': '4176fc00f964a520b61d1fe3',
  'name': 'Irish Rover',
  'location': {'address': '3718 28th Ave',
    'crossStreet': 'at 38th St.',
    'lat': 40.76583545894952,
    'lng': -73.91464727517706,
    'labeledLatLngs': [{'label': 'display',
      'lat': 40.76583545894952,
      'lng': -73.91464727517706}]},
  'distance': 309,
  'postalCode': '11103',
  'cc': 'US',
  'city': 'Astoria',
  'state': 'NY',
  'country': 'United States',
  'formattedAddress': ['3718 28th Ave (at 38th St.)',
    'Astoria, NY 11103',
    'United States']},
'categories': [{'id': '4bf58dd8d48988d11b941735',
  'name': 'Pub',
  'pluralName': 'Pubs',
  'shortName': 'Pub',
  'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/nightlif
e/pub_',
    'suffix': '.png'},
  'primary': True}],
'photos': {'count': 0, 'groups': []}},
'referralId': 'e-0-4176fc00f964a520b61d1fe3-8'},
{'reasons': {'count': 0,
  'items': [{'summary': 'This spot is popular',
    'type': 'general',
    'reasonName': 'globalInteractionReason'}]}],
'venu': {'id': '4adc66a6f964a520122c21e3',
  'name': 'El Cafetal',
  'location': {'address': '3019 Astoria Blvd',
    'lat': 40.77015319512015,
    'lng': -73.91821410404256,
    'labeledLatLngs': [{'label': 'display',
      'lat': 40.77015319512015,
      'lng': -73.91821410404256}]},
  'distance': 283,
  'postalCode': '11102',
  'cc': 'US',
  'city': 'Astoria',
  'state': 'NY',
  'country': 'United States',
  'formattedAddress': ['3019 Astoria Blvd',
    'Astoria, NY 11102',
    'United States']},
'categories': [{'id': '4bf58dd8d48988d1c1941735',
  'name': 'Mexican Restaurant',
  'pluralName': 'Mexican Restaurants',

```

```

    'shortName': 'Mexican',
    'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/mexi
can_',
    'suffix': '.png'},
    'primary': True}],
    'photos': {'count': 0, 'groups': []}},
    'referralId': 'e-0-4adc66a6f964a520122c21e3-9'},
    {'reasons': {'count': 0,
    'items': [{'summary': 'This spot is popular',
    'type': 'general',
    'reasonName': 'globalInteractionReason'}]},
    'venue': {'id': '4ff0ec8ee4b08cbcb87a4e6b',
    'name': 'Noisette',
    'location': {'address': '24-21 Steinway St',
    'lat': 40.768543965185785,
    'lng': -73.91124779846233,
    'labeledLatLngs': [{'label': 'display',
    'lat': 40.768543965185785,
    'lng': -73.91124779846233}],
    'distance': 371,
    'postalCode': '11103',
    'cc': 'US',
    'city': 'Astoria',
    'state': 'NY',
    'country': 'United States',
    'formattedAddress': ['24-21 Steinway St',
    'Astoria, NY 11103',
    'United States']},
    'categories': [{'id': '4bf58dd8d48988d1d0941735',
    'name': 'Dessert Shop',
    'pluralName': 'Dessert Shops',
    'shortName': 'Desserts',
    'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/dess
ert_',
    'suffix': '.png'},
    'primary': True}],
    'photos': {'count': 0, 'groups': []}},
    'referralId': 'e-0-4ff0ec8ee4b08cbcb87a4e6b-10'},
    {'reasons': {'count': 0,
    'items': [{'summary': 'This spot is popular',
    'type': 'general',
    'reasonName': 'globalInteractionReason'}]},
    'venue': {'id': '4bbfe9634cdfc9b6bd369221',
    'name': "Sabry's",
    'location': {'address': '2425 Steinway St',
    'lat': 40.76844624846522,
    'lng': -73.91126714076336,
    'labeledLatLngs': [{'label': 'display',
    'lat': 40.76844624846522,
    'lng': -73.91126714076336}],
    'distance': 369,
    'postalCode': '11103',
    'cc': 'US',
    'city': 'Astoria',
    'state': 'NY',
    'country': 'United States',
    'formattedAddress': ['2425 Steinway St',

```

```

'Astoria, NY 11103',
'United States']},
'categories': [{ 'id': '4bf58dd8d48988d1ce941735',
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'primary': True}],
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re-affiliate-network&utm_medium=affiliate&utm_campaign=1131&utm_content=32321
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'Astoria, NY 11103',
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'United States']},
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filiate&utm_campaign=1131&utm_content=292331',
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    'location': {'address': '32-06 30th Ave, Queens, NY 11102',
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'United States']},
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etwork&utm_medium=affiliate&utm_campaign=1131&utm_content=1015643',
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um=affiliate&utm_campaign=1131&utm_content=299715',
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    'United States']},
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n_',
    'suffix': '.png'},
    'primary': True}],
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  'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/bbqa
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    'suffix': '.png'},
    'primary': True}],
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affiliate&utm_campaign=1131&utm_content=274923',
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        'lng': -73.9211870791133,
        'labeledLatLngs': [{'label': 'display',
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          'United States']},
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-newton-ave-astoria/349277?affiliate=1131&utm_source=foursquare-affiliate-net
work&utm_medium=affiliate&utm_campaign=1131&utm_content=349277',
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    'country': 'United States',
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    'United States']],
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    'shortName': 'Salon / Barbershop',
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    'suffix': '.png'},
    'primary': True}],
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    'shortName': 'Hookah Bar',
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'suffix': '.png'},
'primary': True}],
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'name': '/delivery_provider_seamless_20180129.png'}}},
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'United States']},

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twork&utm_medium=affiliate&utm_campaign=1131&utm_content=1244125',
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filiate&utm_campaign=1131&utm_content=288747',
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                'lng': -73.91563699810902,
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                    'lng': -73.91563699810902}]},
                'distance': 472,

```

```

'postalCode': '11103',
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'Astoria, NY 11103',
'United States']],
'categories': [{ 'id': '4bf58dd8d48988d175941735',
'name': 'Gym / Fitness Center',
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'shortName': 'Gym / Fitness',
'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/building/
gym_',
'suffix': '.png'},
'primary': True}],
'photos': { 'count': 0, 'groups': [] },
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{'reasons': { 'count': 0,
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'name': 'Layali Dubai',
'location': { 'address': '2417 Steinway St',
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'lng': -73.9109328752284,
'labeledLatLngs': [{ 'label': 'display',
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'lng': -73.9109328752284 } ] },
'distance': 398,
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'cc': 'US',
'city': 'Astoria',
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'country': 'United States',
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'Astoria, NY 11103',
'United States']],
'categories': [{ 'id': '4bf58dd8d48988d115941735',
'name': 'Middle Eastern Restaurant',
'pluralName': 'Middle Eastern Restaurants',
'shortName': 'Middle Eastern',
'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/midd
leeastern_',
'suffix': '.png'},
'primary': True}],
'delivery': { 'id': '966639',
'url': 'https://www.seamless.com/menu/layali-dubai-restaurant-2417-st
einway-st-astoria/966639?affiliate=1131&utm_source=foursquare-affiliate-netwo
rk&utm_medium=affiliate&utm_campaign=1131&utm_content=966639',
'provider': { 'name': 'seamless',
'icon': { 'prefix': 'https://fastly.4sqi.net/img/general/cap/',
'sizes': [40, 50],
'name': '/delivery_provider_seamless_20180129.png' } } },
'photos': { 'count': 0, 'groups': [] },
'referralId': 'e-0-4ed859590aaf49e02718d9d6-88'},

```

```

{'reasons': {'count': 0,
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    'lat': 40.766339152101246,
    'lng': -73.92014456849674,
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  'city': 'Astoria',
  'state': 'NY',
  'country': 'United States',
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    'United States']},
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  'shortName': 'Food & Drink',
  'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/shops/foodanddrink_',
    'suffix': '.png'},
  'primary': True}],
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    'reasonName': 'globalInteractionReason'}]},
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  'name': 'Café To Go Creperie',
  'location': {'address': '3119 30th Ave',
    'lat': 40.76683085520095,
    'lng': -73.92044142362329,
    'labeledLatLngs': [{'label': 'display',
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      'lng': -73.92044142362329}]},
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  'cc': 'US',
  'city': 'Astoria',
  'state': 'NY',
  'country': 'United States',
  'formattedAddress': ['3119 30th Ave',
    'Astoria, NY 11102',
    'United States']},
'categories': [{'id': '4bf58dd8d48988d16d941735',
  'name': 'Café',
  'pluralName': 'Cafés',
  'shortName': 'Café',

```



```

    'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/cafe
_ ',
    'suffix': '.png'},
    'primary': True}],
    'delivery': {'id': '300470',
    'url': 'https://www.seamless.com/menu/cafe-to-go-31-19-30th-ave-astor
ia/300470?affiliate=1131&utm_source=foursquare-affiliate-network&utm_medium=a
ffiliate&utm_campaign=1131&utm_content=300470',
    'provider': {'name': 'seamless',
    'icon': {'prefix': 'https://fastly.4sqi.net/img/general/cap/',
    'sizes': [40, 50],
    'name': '/delivery_provider_seamless_20180129.png'}}},
    'photos': {'count': 0, 'groups': []},
    'venuePage': {'id': '86476283'}},
    'referralId': 'e-0-4c15a182583c9c74bccf3fa4-90'},
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    'type': 'general',
    'reasonName': 'globalInteractionReason'}]},
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    'name': 'Midnight Lounge',
    'location': {'address': '25-39 Steinway St',
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    'lng': -73.91246212832796,
    'labeledLatLngs': [{'label': 'display',
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    'lng': -73.91246212832796}]},
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    'state': 'NY',
    'country': 'United States',
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    'Astoria, NY 11103',
    'United States']},
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    'shortName': 'Hookah Bar',
    'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/nightlif
e/hookahbar_',
    'suffix': '.png'},
    'primary': True}],
    'photos': {'count': 0, 'groups': []},
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    'items': [{'summary': 'This spot is popular',
    'type': 'general',
    'reasonName': 'globalInteractionReason'}]},
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    'lat': 40.76431864769857,
    'lng': -73.91466600127636,
    'labeledLatLngs': [{'label': 'display',

```

```

    'lat': 40.76431864769857,
    'lng': -73.91466600127636}],
    'distance': 473,
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    'city': 'Long Island City',
    'state': 'NY',
    'country': 'United States',
    'formattedAddress': ['2848 Steinway St',
    'Long Island City, NY 11103',
    'United States']],
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    'name': 'Chinese Restaurant',
    'pluralName': 'Chinese Restaurants',
    'shortName': 'Chinese',
    'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/asia
n_',
    'suffix': '.png'},
    'primary': True}],
    'delivery': {'id': '338402',
    'url': 'https://www.seamless.com/menu/sampan-chinese-restaurant-2848-
steinway-st-astoria/338402?affiliate=1131&utm_source=foursquare-affiliate-net
work&utm_medium=affiliate&utm_campaign=1131&utm_content=338402',
    'provider': {'name': 'seamless',
    'icon': {'prefix': 'https://fastly.4sqi.net/img/general/cap/',
    'sizes': [40, 50],
    'name': '/delivery_provider_seamless_20180129.png'}}},
    'photos': {'count': 0, 'groups': []}},
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    'state': 'NY',
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    'pluralName': 'Coffee Shops',
    'shortName': 'Coffee Shop',
    'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/coff
eeshop_',

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    'suffix': '.png'},
    'primary': True]],
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    'lng': -73.91862193108781,
    'labeledLatLngs': [{'label': 'display',
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    'lng': -73.91862193108781}]},
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    'cc': 'US',
    'city': 'Astoria',
    'state': 'NY',
    'country': 'United States',
    'formattedAddress': ['34-12 30th Ave',
    'Astoria, NY 11103',
    'United States']},
    'categories': [{'id': '4bf58dd8d48988d146941735',
    'name': 'Deli / Bodega',
    'pluralName': 'Delis / Bodegas',
    'shortName': 'Deli / Bodega',
    'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/deli

```

\_,

```

    'suffix': '.png'},
    'primary': True]],
    'photos': {'count': 0, 'groups': []}},
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    'type': 'general',
    'reasonName': 'globalInteractionReason'}]},
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    'name': 'Jannah Charcoal & Grill',
    'location': {'address': '30th Avenue',
    'crossStreet': '38th Street',
    'lat': 40.7640867218297,
    'lng': -73.91558201721965,
    'labeledLatLngs': [{'label': 'display',
    'lat': 40.7640867218297,
    'lng': -73.91558201721965}]},
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    'postalCode': '11102',
    'cc': 'US',
    'city': 'Astoria',
    'state': 'NY',
    'country': 'United States',
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    'Astoria, NY 11102',
    'United States']},

```

```

'categories': [{ 'id': '4bf58dd8d48988d1cb941735',
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    'suffix': '.png'},
  'primary': True}],
'photos': { 'count': 0, 'groups': []},
'referralId': 'e-0-4c7b10fe97028cfa3345e0fe-95'},
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    'type': 'general',
    'reasonName': 'globalInteractionReason'}]},
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  'name': 'Absolute Wine & Spirits',
  'location': { 'address': '3413 30th Ave',
    'crossStreet': 'btwn 34th & 35th St.',
    'lat': 40.76557301229827,
    'lng': -73.91846405194195,
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      'lng': -73.91846405194195}],
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    'state': 'NY',
    'country': 'United States',
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      'United States']},
  'categories': [{ 'id': '4bf58dd8d48988d119951735',
    'name': 'Wine Shop',
    'pluralName': 'Wine Shops',
    'shortName': 'Wine Shop',
    'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/shops/food_wineshop_',
      'suffix': '.png'},
    'primary': True}],
  'photos': { 'count': 0, 'groups': []},
  'referralId': 'e-0-4ba94144f964a5208b183ae3-96'},
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    'reasonName': 'globalInteractionReason'}]},
'venue': { 'id': '4b6659a5f964a520d31e2be3',
  'name': 'Matsu Sushi',
  'location': { 'address': '34-11 30th Ave',
    'lat': 40.76558710454389,
    'lng': -73.91857219992431,
    'labeledLatLngs': [{ 'label': 'display',
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      'lng': -73.91857219992431}],
    'distance': 407,
    'postalCode': '11103',
    'cc': 'US',

```

```

'city': 'Astoria',
'state': 'NY',
'country': 'United States',
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'Astoria, NY 11103',
'United States']},
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'name': 'Sushi Restaurant',
'pluralName': 'Sushi Restaurants',
'shortName': 'Sushi',
'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/sush
i_',
'suffix': '.png'}},
'primary': True}],
'photos': { 'count': 0, 'groups': []},
'venuePage': { 'id': '122831614'}},
'referralId': 'e-0-4b6659a5f964a520d31e2be3-97'},
{'reasons': { 'count': 0,
'items': [{ 'summary': 'This spot is popular',
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'reasonName': 'globalInteractionReason'}]},
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'location': { 'address': '31-08 30th Ave Apt 2',
'lat': 40.76673223813516,
'lng': -73.92106950875352,
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'lng': -73.92106950875352}],
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'cc': 'US',
'city': 'Astoria',
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'country': 'United States',
'formattedAddress': ['31-08 30th Ave Apt 2',
'Astoria, NY 11102',
'United States']},
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'name': 'Salon / Barbershop',
'pluralName': 'Salons / Barbershops',
'shortName': 'Salon / Barbershop',
'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/shops/sal
on_barber_',
'suffix': '.png'}},
'primary': True}],
'photos': { 'count': 0, 'groups': []}},
'referralId': 'e-0-4dee9d327d8be635ea67f698-98'},
{'reasons': { 'count': 0,
'items': [{ 'summary': 'This spot is popular',
'type': 'general',
'reasonName': 'globalInteractionReason'}]},
'venue': { 'id': '50e8c2c7e4b0688e455b3e52',
'name': 'Aden Restaurant',
'location': { 'address': '24-42 Steinway St',
'lat': 40.768233,
'lng': -73.911779,

```

```

'latitude': 40.768233,
'longitude': -73.911779},
'distance': 328,
'postalCode': '11103',
'cc': 'US',
'city': 'Astoria',
'state': 'NY',
'country': 'United States',
'formattedAddress': ['24-42 Steinway St',
'Astoria, NY 11103',
'United States']},
'categories': [{'id': '4bf58dd8d48988d115941735',
'name': 'Middle Eastern Restaurant',
'pluralName': 'Middle Eastern Restaurants',
'shortName': 'Middle Eastern',
'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/middle_eastern_',
'suffix': '.png'},
'primary': True}],
'photos': {'count': 0, 'groups': []}},
'referralId': 'e-0-50e8c2c7e4b0688e455b3e52-99'}]]]]}

```

In [64]:

```

# 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 [65]:

```

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[65]:

	name	categories	lat	lng
0	Favela Grill	Brazilian Restaurant	40.767348	-73.917897
1	CrossFit Queens	Gym	40.769404	-73.918977
2	Titan Foods Inc.	Gourmet Shop	40.769198	-73.919253
3	Orange Blossom	Gourmet Shop	40.769856	-73.917012
4	Simply Fit Astoria	Gym	40.769114	-73.912403

In [66]:

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

100 venues were returned by Foursquare.

## 5. Explore Neighborhoods in Queens

In [68]:

```

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 [69]:

```
Queens_venues = getNearbyVenues(names=Queens_data['Neighborhood'],  
                                latitudes=Queens_data['Latitude'],  
                                longitudes=Queens_data['Longitude'],  
                                )
```

Astoria  
Woodside  
Jackson Heights  
Elmhurst  
Howard Beach  
Corona  
Forest Hills  
Kew Gardens  
Richmond Hill  
Flushing  
Long Island City  
Sunnyside  
East Elmhurst  
Maspeth  
Ridgewood  
Glendale  
Rego Park  
Woodhaven  
Ozone Park  
South Ozone Park  
College Point  
Whitestone  
Bayside  
Auburndale  
Little Neck  
Douglaston  
Glen Oaks  
Bellerose  
Kew Gardens Hills  
Fresh Meadows  
Briarwood  
Jamaica Center  
Oakland Gardens  
Queens Village  
Hollis  
South Jamaica  
St. Albans  
Rochdale  
Springfield Gardens  
Cambria Heights  
Rosedale  
Far Rockaway  
Broad Channel  
Breezy Point  
Steinway  
Beechhurst  
Bay Terrace  
Edgemere  
Arverne  
Rockaway Beach  
Neponsit  
Murray Hill  
Floral Park  
Holliswood  
Jamaica Estates  
Queensboro Hill  
Hillcrest

Ravenswood  
 Lindenwood  
 Laurelton  
 Lefrak City  
 Belle Harbor  
 Rockaway Park  
 Somerville  
 Brookville  
 Bellaire  
 North Corona  
 Forest Hills Gardens  
 Jamaica Hills  
 Utopia  
 Pomonok  
 Astoria Heights  
 Hunters Point  
 Sunnyside Gardens  
 Blissville  
 Roxbury  
 Middle Village  
 Malba  
 Hammels  
 Bayswater  
 Queensbridge

In [70]:

```
print(Queens_venues.shape)
Queens_venues.head()
```

(2180, 7)

Out[70]:

	Neighborhood	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
0	Astoria	40.768509	-73.915654	Favela Grill	40.767348	-73.917897	Brazilian Restaurant
1	Astoria	40.768509	-73.915654	CrossFit Queens	40.769404	-73.918977	Gym
2	Astoria	40.768509	-73.915654	Titan Foods Inc.	40.769198	-73.919253	Gourmet Shop
3	Astoria	40.768509	-73.915654	Orange Blossom	40.769856	-73.917012	Gourmet Shop
4	Astoria	40.768509	-73.915654	Simply Fit Astoria	40.769114	-73.912403	Gym

In [71]:

```
Queens_venues.groupby('Neighborhood').count()
```

Out[71]:

	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
Neighborhood						
Arverne	18	18	18	18	18	18
Astoria	100	100	100	100	100	100
Astoria Heights	13	13	13	13	13	13
Auburndale	18	18	18	18	18	18
Bay Terrace	40	40	40	40	40	40
Bayside	70	70	70	70	70	70
Bayswater	2	2	2	2	2	2
Beechhurst	16	16	16	16	16	16
Bellaire	12	12	12	12	12	12
Belle Harbor	18	18	18	18	18	18
Bellerose	23	23	23	23	23	23
Blissville	22	22	22	22	22	22
Breezy Point	4	4	4	4	4	4
Briarwood	14	14	14	14	14	14
Broad Channel	6	6	6	6	6	6
Brookville	1	1	1	1	1	1
Cambria Heights	17	17	17	17	17	17
College Point	41	41	41	41	41	41
Corona	22	22	22	22	22	22
Douglaston	22	22	22	22	22	22
East Elmhurst	11	11	11	11	11	11
Edgemere	14	14	14	14	14	14
Elmhurst	42	42	42	42	42	42
Far Rockaway	31	31	31	31	31	31
Floral Park	4	4	4	4	4	4
Flushing	58	58	58	58	58	58
Forest Hills	39	39	39	39	39	39
Forest Hills Gardens	21	21	21	21	21	21
Fresh Meadows	15	15	15	15	15	15
Glen Oaks	21	21	21	21	21	21
Glendale	4	4	4	4	4	4

	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
Neighborhood						
Hammels	19	19	19	19	19	19
Hillcrest	21	21	21	21	21	21
Hollis	20	20	20	20	20	20
Holliswood	4	4	4	4	4	4
Howard Beach	52	52	52	52	52	52
Hunters Point	72	72	72	72	72	72
Jackson Heights	80	80	80	80	80	80
Jamaica Center	46	46	46	46	46	46
Jamaica Estates	4	4	4	4	4	4
Jamaica Hills	25	25	25	25	25	25
Kew Gardens	48	48	48	48	48	48
Kew Gardens Hills	20	20	20	20	20	20
Laurelton	6	6	6	6	6	6
Lefrak City	28	28	28	28	28	28
Lindenwood	12	12	12	12	12	12
Little Neck	46	46	46	46	46	46
Long Island City	78	78	78	78	78	78
Malba	3	3	3	3	3	3
Maspeth	31	31	31	31	31	31
Middle Village	18	18	18	18	18	18
Murray Hill	46	46	46	46	46	46
Neponsit	5	5	5	5	5	5
North Corona	25	25	25	25	25	25
Oakland Gardens	24	24	24	24	24	24
Ozone Park	33	33	33	33	33	33
Pomonok	11	11	11	11	11	11
Queens Village	17	17	17	17	17	17
Queensboro Hill	25	25	25	25	25	25
Queensbridge	15	15	15	15	15	15
Ravenswood	26	26	26	26	26	26
Rego Park	46	46	46	46	46	46

	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
Neighborhood						
Richmond Hill	26	26	26	26	26	26
Ridgewood	36	36	36	36	36	36
Rochdale	23	23	23	23	23	23
Rockaway Beach	58	58	58	58	58	58
Rockaway Park	27	27	27	27	27	27
Rosedale	15	15	15	15	15	15
Roxbury	10	10	10	10	10	10
Somerville	1	1	1	1	1	1
South Jamaica	7	7	7	7	7	7
South Ozone Park	13	13	13	13	13	13
Springfield Gardens	16	16	16	16	16	16
St. Albans	16	16	16	16	16	16
Steinway	25	25	25	25	25	25
Sunnyside	40	40	40	40	40	40
Sunnyside Gardens	100	100	100	100	100	100
Utopia	17	17	17	17	17	17
Whitestone	6	6	6	6	6	6
Woodhaven	24	24	24	24	24	24
Woodside	75	75	75	75	75	75

In [72]:

```
print('There are {} uniques categories.'.format(len(Queens_venues['Venue Category'].unique())))
```

There are 273 uniques categories.

## 6. Analyze Each Neighborhood

In [73]:

```

# one hot encoding
Queens_onehot = pd.get_dummies(Queens_venues[['Venue Category']], prefix="", prefix_sep=""
)
# add neighborhood column back to dataframe
Queens_onehot['Neighborhood'] = Queens_venues['Neighborhood']
# move neighborhood column to the first column
fixed_columns = [Queens_onehot.columns[-1]] + list(Queens_onehot.columns[:-1])
Queens_onehot = Queens_onehot[fixed_columns]
Queens_onehot.head()

```

Out[73]:

	Yoga Studio	Accessories Store	Afghan Restaurant	Airport Terminal	American Restaurant	Arepa Restaurant	Argentinian Restaurant	Art Gallery	Museum
0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0

In [74]:

```
Queens_onehot.shape
```

Out[74]:

(2180, 273)



In [75]:

```
Queens_grouped = Queens_onehot.groupby('Neighborhood').mean().reset_index()
Queens_grouped
print(Queens_grouped .shape)
Queens_grouped .head(10)
```

(81, 273)

Out[75]:

	Neighborhood	Yoga Studio	Accessories Store	Afghan Restaurant	Airport Terminal	American Restaurant	Arepa Restaurant	Argentine Restaurant
0	Arverne	0.000000	0.000	0.0	0.0	0.000000	0.0	(
1	Astoria	0.000000	0.000	0.0	0.0	0.000000	0.0	(
2	Astoria Heights	0.000000	0.000	0.0	0.0	0.000000	0.0	(
3	Auburndale	0.000000	0.000	0.0	0.0	0.055556	0.0	(
4	Bay Terrace	0.000000	0.025	0.0	0.0	0.050000	0.0	(
5	Bayside	0.014286	0.000	0.0	0.0	0.042857	0.0	(
6	Bayswater	0.000000	0.000	0.0	0.0	0.000000	0.0	(
7	Beechhurst	0.062500	0.000	0.0	0.0	0.000000	0.0	(
8	Bellaire	0.000000	0.000	0.0	0.0	0.000000	0.0	(
9	Belle Harbor	0.000000	0.000	0.0	0.0	0.000000	0.0	(

Let us assume our customer wants to open either an Italian Restaurant or an Indian Restaurant

In [78]:

```
print(len(Queens_grouped[Queens_grouped["Italian Restaurant"] > 0]))
print(len(Queens_grouped[Queens_grouped["Indian Restaurant"] > 0]))
```

25

13

In [89]:

```
Queens_grouped = Queens_grouped[["Neighborhood", "Italian Restaurant", "Indian Restaurant"]]
```

In [90]:

```
Queens_grouped.head()
```

Out[90]:

	Neighborhood	Italian Restaurant	Indian Restaurant
0	Arverne	0.000000	0.00
1	Astoria	0.020000	0.02
2	Astoria Heights	0.153846	0.00
3	Auburndale	0.055556	0.00
4	Bay Terrace	0.000000	0.00

In [ ]:

In [91]:

```
num_top_venues = 5
for hood in Queens_grouped['Neighborhood']:
    print("-----"+hood+"-----")
    temp = Queens_grouped[Queens_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')
```

## ----Arverne----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

## ----Astoria----

	venue	freq
0	Italian Restaurant	0.02
1	Indian Restaurant	0.02

## ----Astoria Heights----

	venue	freq
0	Italian Restaurant	0.15
1	Indian Restaurant	0.00

## ----Auburndale----

	venue	freq
0	Italian Restaurant	0.06
1	Indian Restaurant	0.00

## ----Bay Terrace----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

## ----Bayside----

	venue	freq
0	Indian Restaurant	0.04
1	Italian Restaurant	0.03

## ----Bayswater----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

## ----Beechhurst----

	venue	freq
0	Italian Restaurant	0.06
1	Indian Restaurant	0.00

## ----Bellaire----

	venue	freq
0	Italian Restaurant	0.08
1	Indian Restaurant	0.00

## ----Belle Harbor----

	venue	freq
0	Italian Restaurant	0.06

1	Indian Restaurant	0.00
---	-------------------	------

## ----Bellerose----

	venue	freq
0	Italian Restaurant	0.09
1	Indian Restaurant	0.00

## ----Blissville----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

## ----Breezy Point----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

## ----Briarwood----

	venue	freq
0	Indian Restaurant	0.07
1	Italian Restaurant	0.00

## ----Broad Channel----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

## ----Brookville----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

## ----Cambria Heights----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

## ----College Point----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

## ----Corona----

	venue	freq
0	Italian Restaurant	0.05
1	Indian Restaurant	0.00

## ----Douglaston----

	venue	freq
0	Italian Restaurant	0.05
1	Indian Restaurant	0.00

## ----East Elmhurst----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

## ----Edgemere----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

## ----Elmhurst----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

## ----Far Rockaway----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

## ----Floral Park----

	venue	freq
0	Indian Restaurant	0.25
1	Italian Restaurant	0.00

## ----Flushing----

	venue	freq
0	Italian Restaurant	0.02
1	Indian Restaurant	0.00

## ----Forest Hills----

	venue	freq
0	Italian Restaurant	0.03
1	Indian Restaurant	0.00

## ----Forest Hills Gardens----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

## ----Fresh Meadows----

	venue	freq
0	Italian Restaurant	0.0

1	Indian Restaurant	0.0
---	-------------------	-----

----Glen Oaks----

	venue	freq
0	Indian Restaurant	0.05
1	Italian Restaurant	0.00

----Glendale----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

----Hammels----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

----Hillcrest----

	venue	freq
0	Italian Restaurant	0.05
1	Indian Restaurant	0.00

----Hollis----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

----Holliswood----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

----Howard Beach----

	venue	freq
0	Italian Restaurant	0.08
1	Indian Restaurant	0.00

----Hunters Point----

	venue	freq
0	Italian Restaurant	0.06
1	Indian Restaurant	0.00

----Jackson Heights----

	venue	freq
0	Italian Restaurant	0.01
1	Indian Restaurant	0.00

## ----Jamaica Center----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

## ----Jamaica Estates----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

## ----Jamaica Hills----

	venue	freq
0	Indian Restaurant	0.12
1	Italian Restaurant	0.00

## ----Kew Gardens----

	venue	freq
0	Indian Restaurant	0.04
1	Italian Restaurant	0.02

## ----Kew Gardens Hills----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

## ----Laurelton----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

## ----Lefrak City----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

## ----Lindenwood----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

## ----Little Neck----

	venue	freq
0	Italian Restaurant	0.07
1	Indian Restaurant	0.00

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

	venue	freq
0	Italian Restaurant	0.01



1 Indian Restaurant 0.01

----Malba----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

----Maspeth----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

----Middle Village----

	venue	freq
0	Italian Restaurant	0.06
1	Indian Restaurant	0.00

----Murray Hill----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

----Neponsit----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

----North Corona----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

----Oakland Gardens----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

----Ozone Park----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

----Pomonok----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

## ----Queens Village----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

## ----Queensboro Hill----

	venue	freq
0	Indian Restaurant	0.04
1	Italian Restaurant	0.00

## ----Queensbridge----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

## ----Ravenswood----

	venue	freq
0	Italian Restaurant	0.08
1	Indian Restaurant	0.04

## ----Rego Park----

	venue	freq
0	Italian Restaurant	0.02
1	Indian Restaurant	0.00

## ----Richmond Hill----

	venue	freq
0	Indian Restaurant	0.04
1	Italian Restaurant	0.00

## ----Ridgewood----

	venue	freq
0	Italian Restaurant	0.03
1	Indian Restaurant	0.03

## ----Rochdale----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

## ----Rockaway Beach----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

## ----Rockaway Park----

	venue	freq
0	Italian Restaurant	0.0

1 Indian Restaurant 0.0

----Rosedale----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

----Roxbury----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

----Somerville----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

----South Jamaica----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

----South Ozone Park----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

----Springfield Gardens----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

----St. Albans----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

----Steinway----

	venue	freq
0	Italian Restaurant	0.08
1	Indian Restaurant	0.00

----Sunnyside----

	venue	freq
0	Italian Restaurant	0.08
1	Indian Restaurant	0.00

----Sunnyside Gardens----

	venue	freq
0	Indian Restaurant	0.01
1	Italian Restaurant	0.00

----Utopia----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

----Whitestone----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

----Woodhaven----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

----Woodside----

	venue	freq
0	Italian Restaurant	0.0
1	Indian Restaurant	0.0

In [97]:

```
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]
```

## 7. Cluster Neighborhoods

In [104]:

```
# set number of clusters
kclusters = 5
Queens_grouped_clustering = Queens_grouped.drop('Neighborhood', 1)
# run k-means clustering
kmeans = KMeans(n_clusters=kclusters, random_state=0).fit(Queens_grouped_clustering)
# check cluster labels generated for each row in the dataframe
kmeans.labels_[0:10]
```

Out[104]:

```
array([0, 0, 1, 4, 0, 2, 0, 4, 4, 4], dtype=int32)
```

In [114]:

```
# create a new dataframe that includes the cluster as well as the top 10 venues for each neighborhood.
Queens_merged = Queens_grouped.copy()

# add clustering labels
Queens_merged["Cluster Labels"] = kmeans.labels_
```

In [116]:

```
Queens_merged.head()
```

Out[116]:

	Neighborhood	Italian Restaurant	Indian Restaurant	Cluster Labels
0	Arverne	0.000000	0.00	0
1	Astoria	0.020000	0.02	0
2	Astoria Heights	0.153846	0.00	1
3	Auburndale	0.055556	0.00	4
4	Bay Terrace	0.000000	0.00	0

In [ ]:

## 8. Examine Clusters

### Cluster 1

In [136]:

```
Queens_merged.loc[Queens_merged['Cluster Labels'] == 0]
```

Out[136]:

	Restaurant_Location	Italian Restaurant	Indian Restaurant	Cluster Labels
0	Arverne	0.000000	0.000000	0
1	Astoria	0.020000	0.020000	0
4	Bay Terrace	0.000000	0.000000	0
6	Bayswater	0.000000	0.000000	0
11	Blissville	0.000000	0.000000	0
12	Breezy Point	0.000000	0.000000	0
14	Broad Channel	0.000000	0.000000	0
15	Brookville	0.000000	0.000000	0
16	Cambria Heights	0.000000	0.000000	0
17	College Point	0.000000	0.000000	0
20	East Elmhurst	0.000000	0.000000	0
21	Edgemere	0.000000	0.000000	0
22	Elmhurst	0.000000	0.000000	0
23	Far Rockaway	0.000000	0.000000	0
25	Flushing	0.017241	0.000000	0
26	Forest Hills	0.025641	0.000000	0
27	Forest Hills Gardens	0.000000	0.000000	0
28	Fresh Meadows	0.000000	0.000000	0
30	Glendale	0.000000	0.000000	0
31	Hammels	0.000000	0.000000	0
33	Hollis	0.000000	0.000000	0
34	Holliswood	0.000000	0.000000	0
37	Jackson Heights	0.012500	0.000000	0
38	Jamaica Center	0.000000	0.000000	0
39	Jamaica Estates	0.000000	0.000000	0
42	Kew Gardens Hills	0.000000	0.000000	0
43	Laurelton	0.000000	0.000000	0
44	Lefrak City	0.000000	0.000000	0
45	Lindenwood	0.000000	0.000000	0
47	Long Island City	0.012821	0.012821	0
48	Malba	0.000000	0.000000	0
49	Maspeth	0.000000	0.000000	0
51	Murray Hill	0.000000	0.000000	0
52	Neponsit	0.000000	0.000000	0

	Restaurant_Location	Italian Restaurant	Indian Restaurant	Cluster Labels
53	North Corona	0.000000	0.000000	0
54	Oakland Gardens	0.000000	0.000000	0
55	Ozone Park	0.000000	0.000000	0
56	Pomonok	0.000000	0.000000	0
57	Queens Village	0.000000	0.000000	0
59	Queensbridge	0.000000	0.000000	0
61	Rego Park	0.021739	0.000000	0
64	Rochdale	0.000000	0.000000	0
65	Rockaway Beach	0.000000	0.000000	0
66	Rockaway Park	0.000000	0.000000	0
67	Rosedale	0.000000	0.000000	0
68	Roxbury	0.000000	0.000000	0
69	Somerville	0.000000	0.000000	0
70	South Jamaica	0.000000	0.000000	0
71	South Ozone Park	0.000000	0.000000	0
72	Springfield Gardens	0.000000	0.000000	0
73	St. Albans	0.000000	0.000000	0
76	Sunnyside Gardens	0.000000	0.010000	0
77	Utopia	0.000000	0.000000	0
78	Whitestone	0.000000	0.000000	0
79	Woodhaven	0.000000	0.000000	0
80	Woodside	0.000000	0.000000	0

## Cluster 2

In [137]:

```
Queens_merged.loc[Queens_merged['Cluster Labels'] == 1]
```

Out[137]:

	Restaurant_Location	Italian Restaurant	Indian Restaurant	Cluster Labels
2	Astoria Heights	0.153846	0.0	1

## Cluster 3



In [138]:

```
Queens_merged.loc[Queens_merged['Cluster Labels'] == 2]
```

Out[138]:

	Restaurant_Location	Italian Restaurant	Indian Restaurant	Cluster Labels
5	Bayside	0.028571	0.042857	2
13	Briarwood	0.000000	0.071429	2
29	Glen Oaks	0.000000	0.047619	2
40	Jamaica Hills	0.000000	0.120000	2
41	Kew Gardens	0.020833	0.041667	2
58	Queensboro Hill	0.000000	0.040000	2
62	Richmond Hill	0.000000	0.038462	2
63	Ridgewood	0.027778	0.027778	2

#### Cluster 4

In [139]:

```
Queens_merged.loc[Queens_merged['Cluster Labels'] == 3]
```

Out[139]:

	Restaurant_Location	Italian Restaurant	Indian Restaurant	Cluster Labels
24	Floral Park	0.0	0.25	3

#### Cluster 5

In [140]:

```
Queens_merged.loc[Queens_merged['Cluster Labels'] == 4]
```

Out[140]:

	Restaurant_Location	Italian Restaurant	Indian Restaurant	Cluster Labels
3	Auburndale	0.055556	0.000000	4
7	Beechhurst	0.062500	0.000000	4
8	Bellaire	0.083333	0.000000	4
9	Belle Harbor	0.055556	0.000000	4
10	Bellerose	0.086957	0.000000	4
18	Corona	0.045455	0.000000	4
19	Douglaston	0.045455	0.000000	4
32	Hillcrest	0.047619	0.000000	4
35	Howard Beach	0.076923	0.000000	4
36	Hunters Point	0.055556	0.000000	4
46	Little Neck	0.065217	0.000000	4
50	Middle Village	0.055556	0.000000	4
60	Ravenswood	0.076923	0.038462	4
74	Steinway	0.080000	0.000000	4
75	Sunnyside	0.075000	0.000000	4

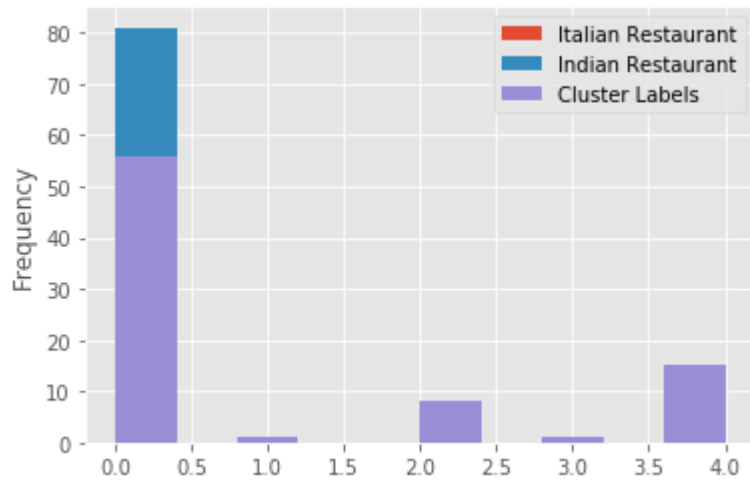
From the clustered data, we can see that for both Italian and Indian Restaurants, cluster 3 seems to be the best choice. There would be less or very little competition from existing restaurants.

In [141]:

```
import matplotlib as mpl
import matplotlib.pyplot as plt
import numpy as np
```

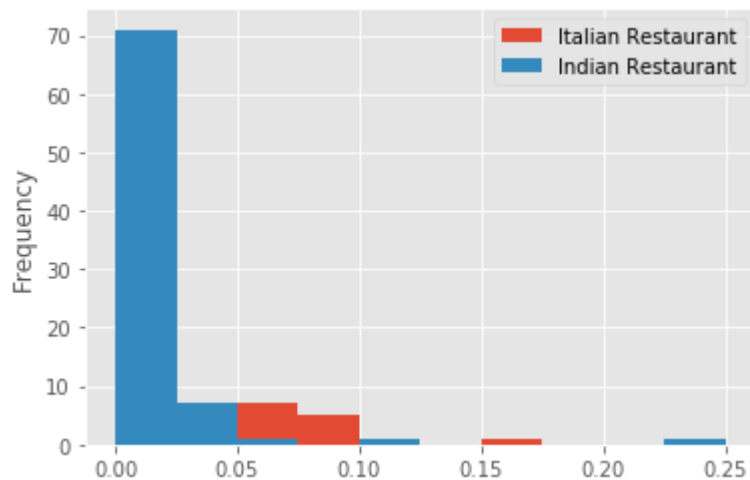
In [146]:

```
Queens_merged.plot(kind='hist')  
plt.show()
```



In [147]:

```
Queens_grouped.plot(kind='hist')  
plt.show()
```



In [ ]: