

## The Battle of the Neighborhoods Project - Week 1

### 2. Datasets Description:

One city will be analyzed in this project : New York City.

We will be using the below datasets for analyzing New York city

**Data 1** : Neighborhood has a total of 5 boroughs and 306 neighborhoods. In order to segment the neighborhoods and explore them, we will essentially need a dataset that contains the 5 boroughs and the neighborhoods that exist in each borough as well as the latitude and longitude coordinates of each neighborhood.

This dataset exists for free on the web. Link to the dataset is :

[https://geo.nyu.edu/catalog/nyu\\_2451\\_34572](https://geo.nyu.edu/catalog/nyu_2451_34572)

	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

Data 2 : Second data which will be used is the DOHMH Farmers Markets and Food Boxes dataset. In this we will be using the data of Farmers Markets

<https://data.cityofnewyork.us/dataset/DOHMH-Farmers-Markets-and-Food-Boxes/8vwk-6iz2>

Website-<https://www.grownyc.org/greenmarketco/foodbox>

Grow NYC's Fresh Food Box Program is a food access initiative that enables under-served communities to purchase fresh, healthy, and primarily regionally grown produce well below traditional retail prices.

A farmers' market is often defined as a public site used by two or more local or regional producers for the direct sale of farm products to consumers. In addition to fresh fruits and vegetables, markets may sell dairy products, fish, meat, baked goods, and other minimally processed foods

FacilityName	Service Category	Service_Type	Address	Address_2	Borough	ZipCode	Latitude	Longitude	AdditionalInfo	StartDate	EndDate	Monday	Tuesday	Wednesday	Thursday
0 Inwood Park Greenmarket	Farmers Markets and Food Bases	Farmers Markets	150th St bet Seaman & Cooper		NaN	Manhattan	10034	40.860395	-73.520320	Open year-round	NaN	NaN	NaN	NaN	NaN
1 62nd Street Greenmarket	Farmers Markets and Food Bases	Farmers Markets	62nd St bet 1st & York Aves		NaN	Manhattan	10022	40.772440	-73.948954	Open year-round	NaN	NaN	NaN	NaN	NaN
3 125th Street Farmers Market	Farmers Markets and Food Bases	Farmers Markets	125th St & Adam Clayton Powell Jr Blvd		NaN	Manhattan	10027	40.808081	-73.948327	Market open dates: 6/13/2017 to 11/21/2017	06/13/2017	11/21/2017	NaN	10am-7pm	NaN
4 173 Farm Stand	Farmers Markets and Food Bases	Farmers Markets	170th St & Townsend Ave		NaN	Bronx	10452	40.840395	-73.916627	Market open dates: 7/5/2017 to 11/22/2017	07/05/2017	11/22/2017	NaN	NaN	2:30pm-9:30pm
5 170th Street Greenmarket	Farmers Markets and Food Bases	Farmers Markets	170th St bet Vandevoort Ave & Broadway		NaN	Manhattan	10033	40.849556	-73.937613	Market open dates: 9/25/2017 to 11/30/2017	09/25/2017	11/30/2017	NaN	NaN	NaN

Data 3 : For the below analysis we will get data from Wikipedia as given below:

1. New York Population
2. New York City Demographics
3. Cuisine of New York city

New York Population New York City Demographics Cuisine of New York city

[https://en.wikipedia.org/wiki/New\\_York\\_City](https://en.wikipedia.org/wiki/New_York_City)

[https://en.wikipedia.org/wiki/Economy\\_of\\_New\\_York\\_City](https://en.wikipedia.org/wiki/Economy_of_New_York_City)

[https://en.wikipedia.org/wiki/Portal:New\\_York\\_City](https://en.wikipedia.org/wiki/Portal:New_York_City)

[https://en.wikipedia.org/wiki/Cuisine\\_of\\_New\\_York\\_City](https://en.wikipedia.org/wiki/Cuisine_of_New_York_City)

[https://en.wikipedia.org/wiki/List\\_of\\_Michelin\\_starred\\_restaurants\\_in\\_New\\_York\\_City](https://en.wikipedia.org/wiki/List_of_Michelin_starred_restaurants_in_New_York_City)

Data 4 : New York city geographical coordinates data will be utilized as input for the Foursquare API, that will be leveraged to provision venues information for each neighborhood. We will use the Foursquare API to explore neighborhoods in New York City. The below is image of the Foursquare API data.

	Neighborhood	NeighborhoodLatitude	NeighborhoodLongitude	Venue	VenueLatitude	VenueLongitude	VenueCategory
0	Marble Hill	40.876551	-73.91066	Arturo's	40.874412	-73.910271	Pizza Place
1	Marble Hill	40.876551	-73.91066	Bikram Yoga	40.876844	-73.906204	Yoga Studio
2	Marble Hill	40.876551	-73.91066	Tibbett Diner	40.880404	-73.908937	Diner
3	Marble Hill	40.876551	-73.91066	Sam's Pizza	40.879435	-73.905859	Pizza Place
4	Marble Hill	40.876551	-73.91066	Loeser's Delicatessen	40.879242	-73.905471	Sandwich Place