

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. 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

	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/8vbk-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

FaultName	Service Category	Service Type	Address	Address 2	Borough	ZipCode	Latitude	Longitude	AddressInfo	StarDate	EndDate	Monday	Tuesday	Wednesday	Thursday
0	Meat Pops (Deli/Market)	Farmers Markets and Food Stores	100th St bet Seventh & Eighth		Manhattan	10034	40.800205	-73.930205	Open year-round			Open	Open	Open	Open
4	12th Street Greenmarket	Farmers Markets	12th St bet 1st & 2nd Aves		Manhattan	10020	40.732440	-73.988024	Open year-round			Open	Open	Open	Open
5	12th Street Farmers Market	Farmers Markets	12th St & bet Chapin Platz & 3rd		Manhattan	10027	40.800205	-73.940207	Market open 8am-5pm 6/1/2017 to 11/2/2017	06/01/2017	11/02/2017	Open	Open	Open	Open
6	15th Street Farmers Market	Farmers Markets	15th St & bet 1st & 2nd Aves		Manhattan	10027	40.840205	-73.940207	Market open 8am-5pm 10/2/2017 to 11/2/2017	07/02/2017	11/02/2017	Open	Open	Open	Open
9	17th Street Greenmarket	Farmers Markets and Food Stores	17th St bet Madison Ave & Broadway		Manhattan	10020	40.840205	-73.970207	Market open 8am-5pm 10/2/2017 to 11/2/2017	06/02/2017	11/02/2017	Open	Open	Open	Open

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/Economy_of_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/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	Anuro'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	Tibbet 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	Loesser's Delicatessen	40.879242	-73.905471	Sandwich Place