Capstone Project: The Battle of Neighborhoods

Peer-graded assignment

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Data

We will use the following data sources:

1. We will use the **New York City data** (https://cocl.us/new_york_dataset) including boroughs and neighborhoods. We will use this dataset to get a list of all boroughs and neighborhoods n New York City and to get their respective geographical coordinates (latitude, longitude)

   The following table shows an example of the neighborhoods data:

	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

2. We will use the **Foursquare API** to obtain venues as well as venue details. First, we will use the Places API to find all venues around given coordinates, e.g. the location of a neighborhood. Second, we will download venue details like the ratings or likes of a venue for further analysis.

   The following table shows an example of venue details which can be requested via the Foursquare Places API:

	Borough	Neighborhood	ID	Name	Likes	Rating	Tips
0	Bronx	Mott Haven	4bb28791715eef3b9f5e85bb	Pio Pio	67.0	8.8	23.0
1	Bronx	Port Morris	4bb28791715eef3b9f5e85bb	Pio Pio	67.0	8.8	23.0
2	Brooklyn	Bushwick	4c117b66416620a12136d9e4	Inca Chicken	34.0	8.5	15.0
3	Brooklyn	Gowanus	4db8c0fcfa8c978590c0f6f1	Surfish	134.0	8.2	58.0
4	Brooklyn	Bath Beach	4e3c94bc483b04e17a8b15a6	La granja	6.0	6.9	6.0