Location of Coffee Shops

Project Location:Bronx

Introduction

- Coffee Store to Be Located in New York.
- Bronx is the selected Borough for Shops.
- Starting with a maximum of 10 shops.
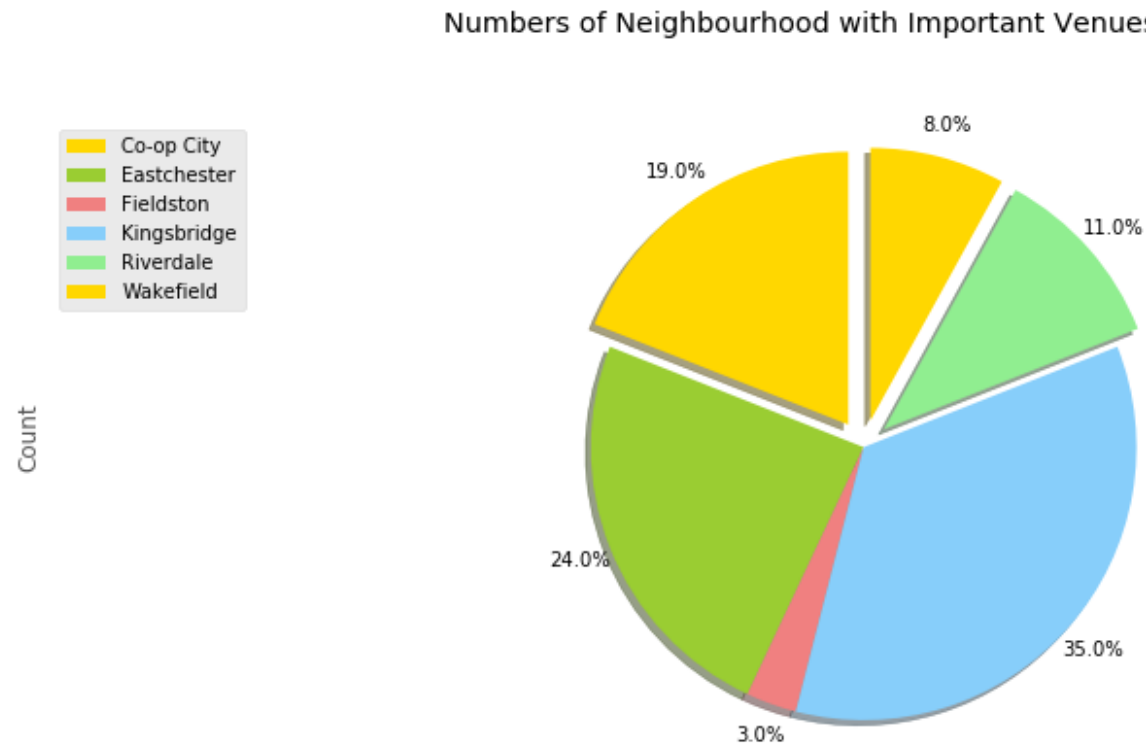
Data Collection

- Data will be collected from Foursquare which is a api for location data.

- Data will be preprocessed and cleaned using python libraries like pandas and numpy.

Methodology

- Conversion of received Data to table: This was the preprocessing carried out on the data which made it easier to analyze
- All the Venues that fell within the Bronx Borough were extracted from the initial table and then formed a table of their own.
- All the venues that were of type coffee shop were all removed from the table. This is because we won't be establishing a new coffee shop on another existing coffer shop.
- The top 100 venues were selected.
- The top 100 venues were converted to a table of their own and were then grouped based on the present Neighborhood
- To meet the target of the Client, each Neighborhood was to have a coffee shop per every 10 popular venues.
- A pie chart was used for the exploratory analysis to better describe the result

Result

- The Pie chart below shows the result of the analysis

Numbers of Neighbourhood with Important Venues in Bronx

- The Table below also shows the result

	Neighborhood	Count
0	Co-op City	19
1	Eastchester	24
2	Fieldston	3
3	Kingsbridge	35
4	Riverdale	11

Discussion

- Since the Clients does not want more than 10 stores, we will be siting a coffee store per 10 popular venues in the selected Neighborhood.

- The table below shows the number of coffee shops that will be available for each neighborhood.

Neighborhood	No of Shops
Co-op City	2
EastChester	2
FieldSton	1
Kingsbridge	3
Riverdale	1

Thank You