

# RECOMMENDING NEW CUISINE FOR A RESTAURANT

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- If you are a restaurant owner or company wouldn't it be great if you could find out popular cuisine in New York or the least number of cuisines available in a neighborhood, so you can decide on the cuisines you want in your restaurant?
- This project can recommend a cuisine to be added to existed restaurants or new restaurants to be opened.

# DATA ACQUISITION AND CLEANING

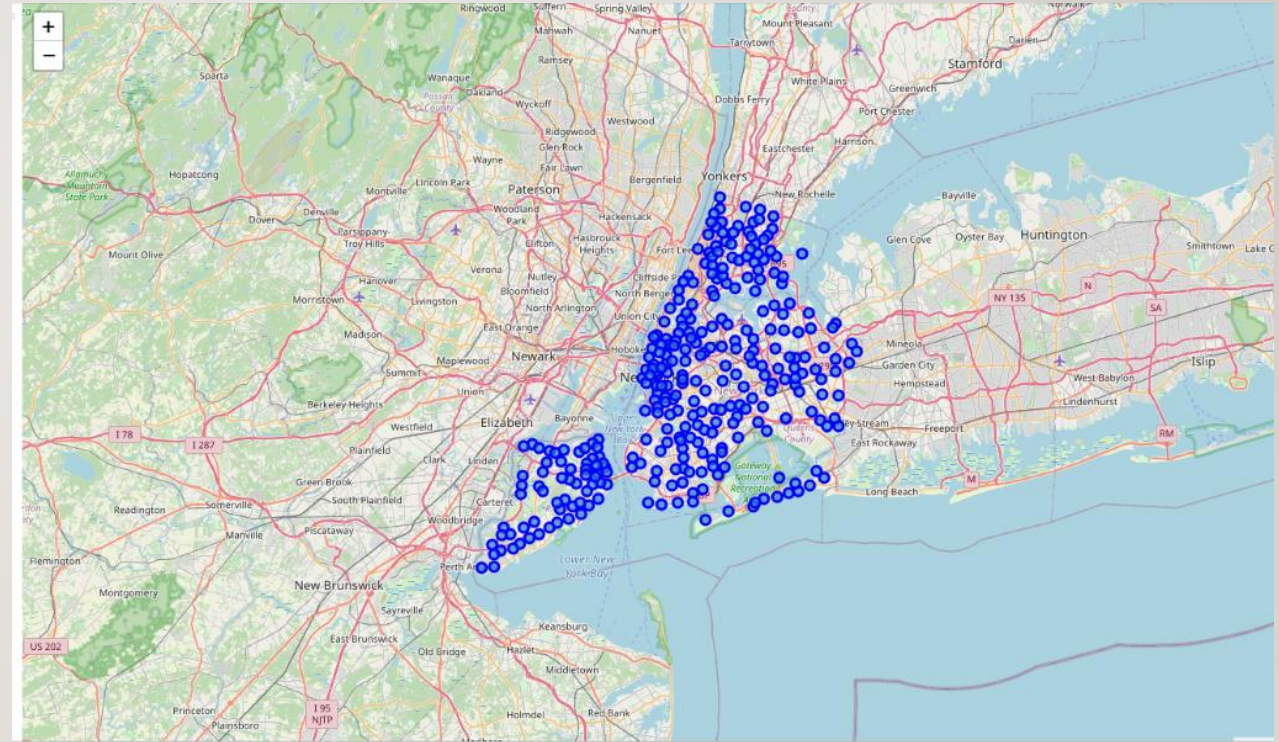
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- a dataset that contains the boroughs and the neighborhoods that exist in each borough as well as the latitude and longitude coordinates of each neighborhood  
[https://cocl.us/new\\_york\\_dataset](https://cocl.us/new_york_dataset)
- Utilizing Foursquare API to explore the neighborhoods venues that contain cuisine of restaurant
- After data cleaning, there were 3019 samples 74 features in the data

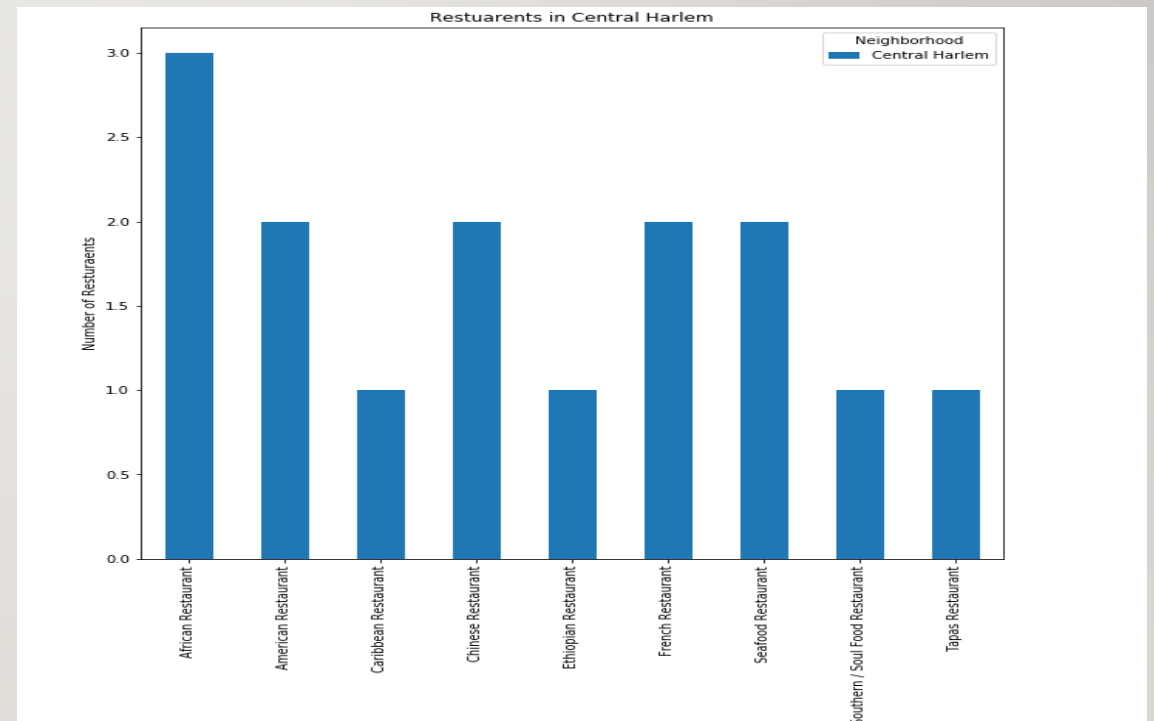
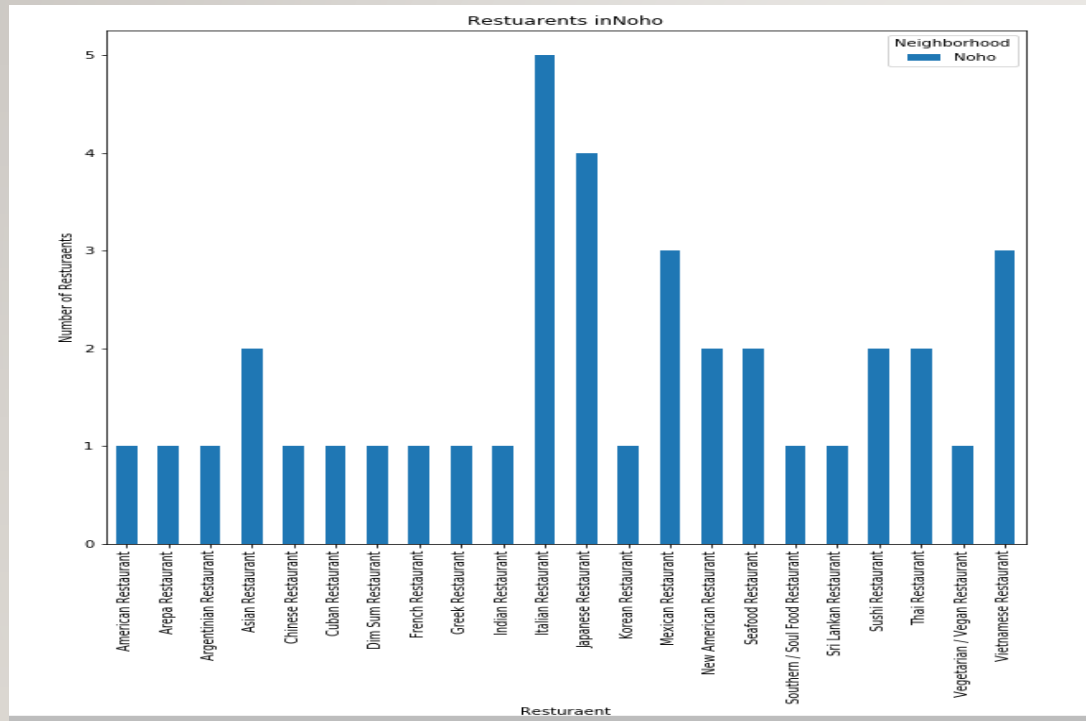


# RESTAURANTS IN NYC

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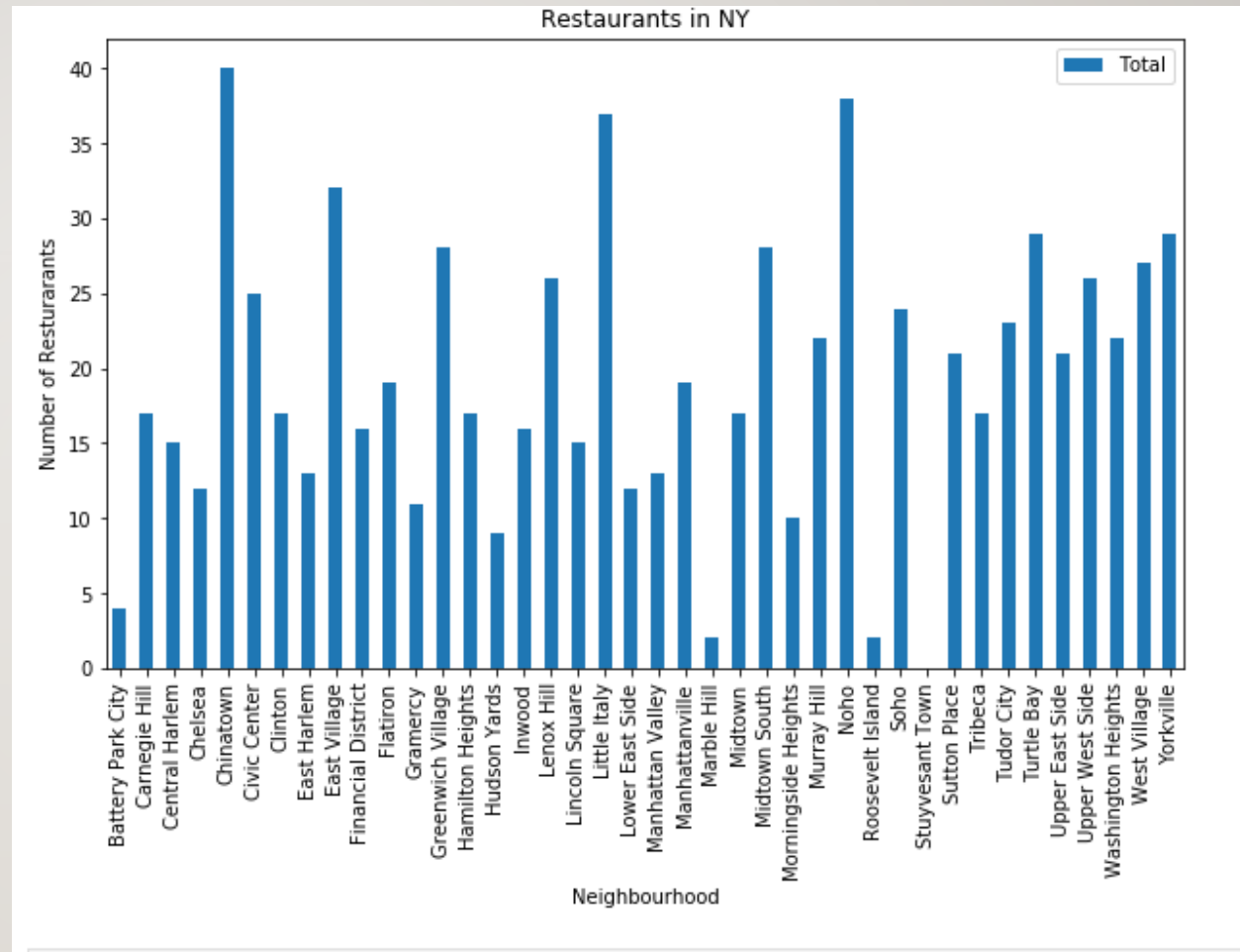


# COMPARING NEIGHBORHOOD



## RESTAURANTS IN NEIGHBORHOOD

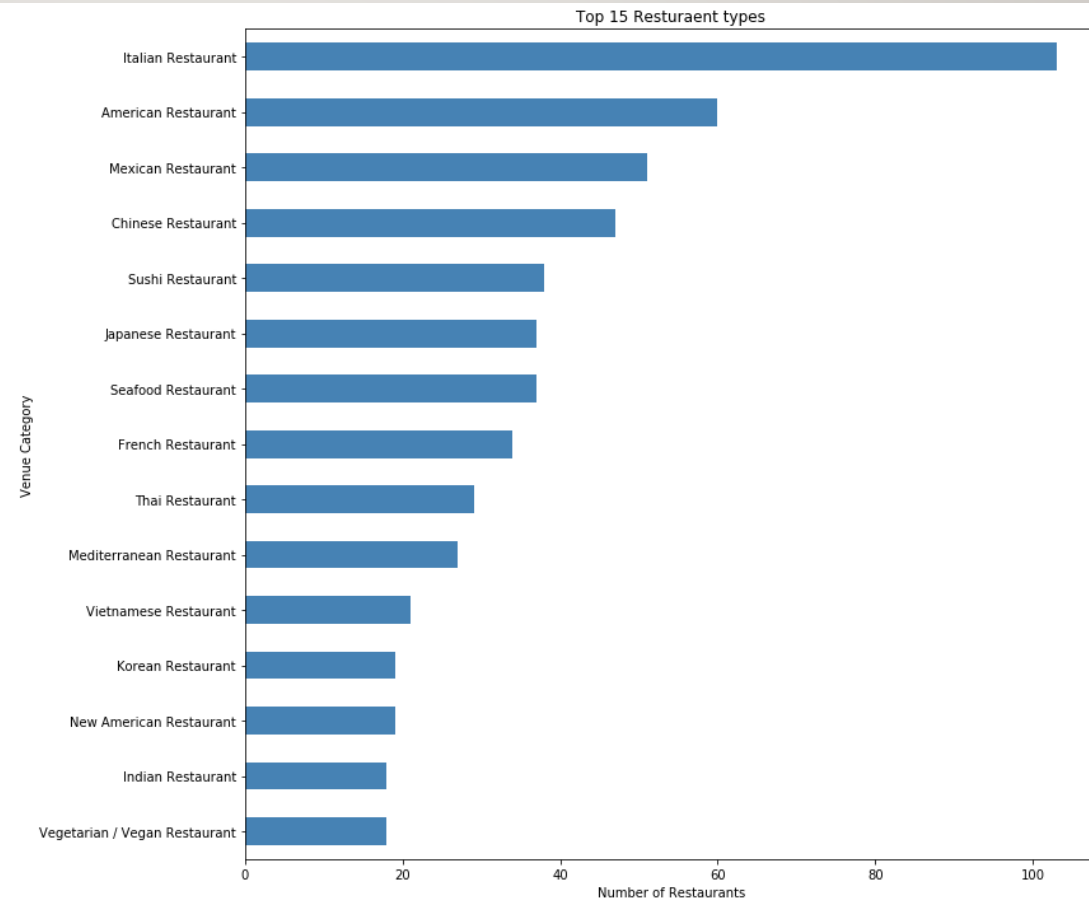
Here you can see highest count is for  
chinatown and least or Stuyvesant  
Town





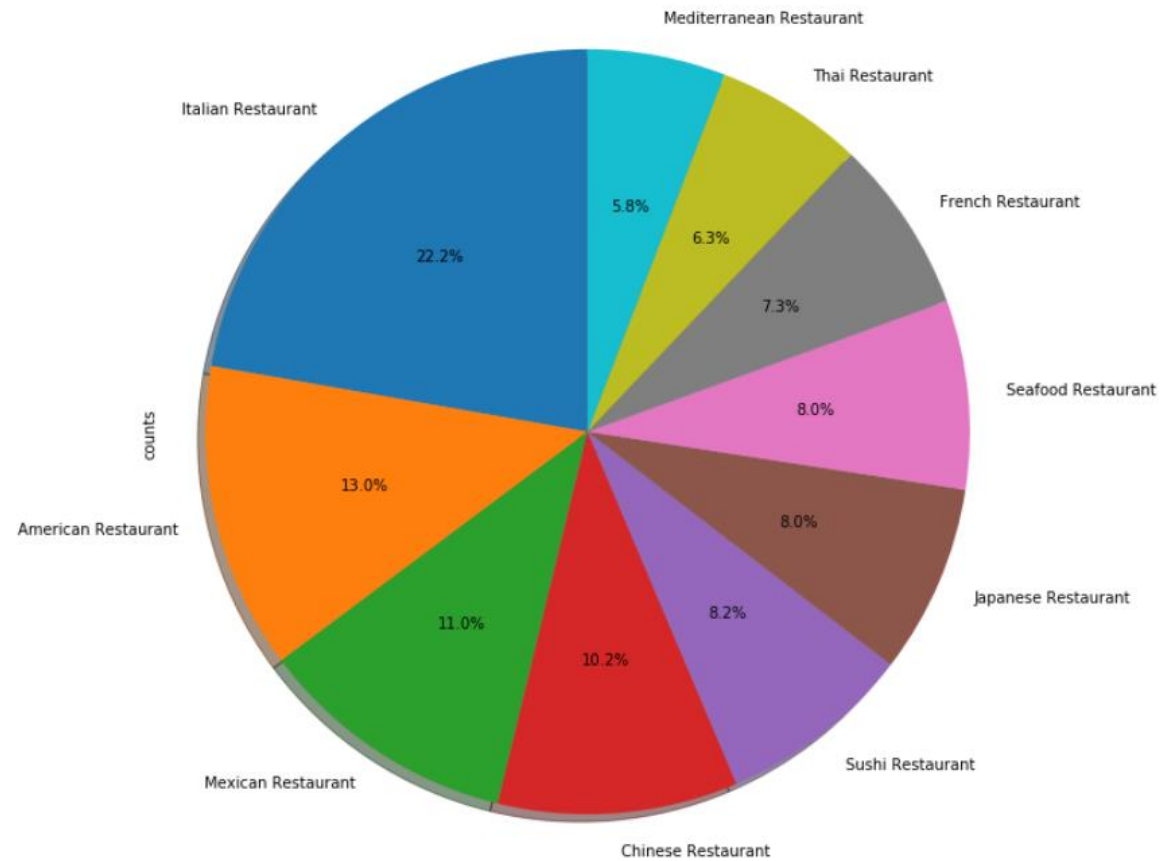
# RESTAURANTS

Italian Restaurant  
Restaurant Chinese  
Restaurant Italian  
Restaurant Mexican  
Restaurant American  
Restaurant Japanese  
Restaurant Seafood  
Restaurant French  
Restaurant Thai  
Restaurant Sushi  
Restaurant Vietnamese  
Restaurant Korean  
Restaurant New American  
Restaurant Indian  
Restaurant Vegetarian / Vegan



# POPULAR RESTAURANTS

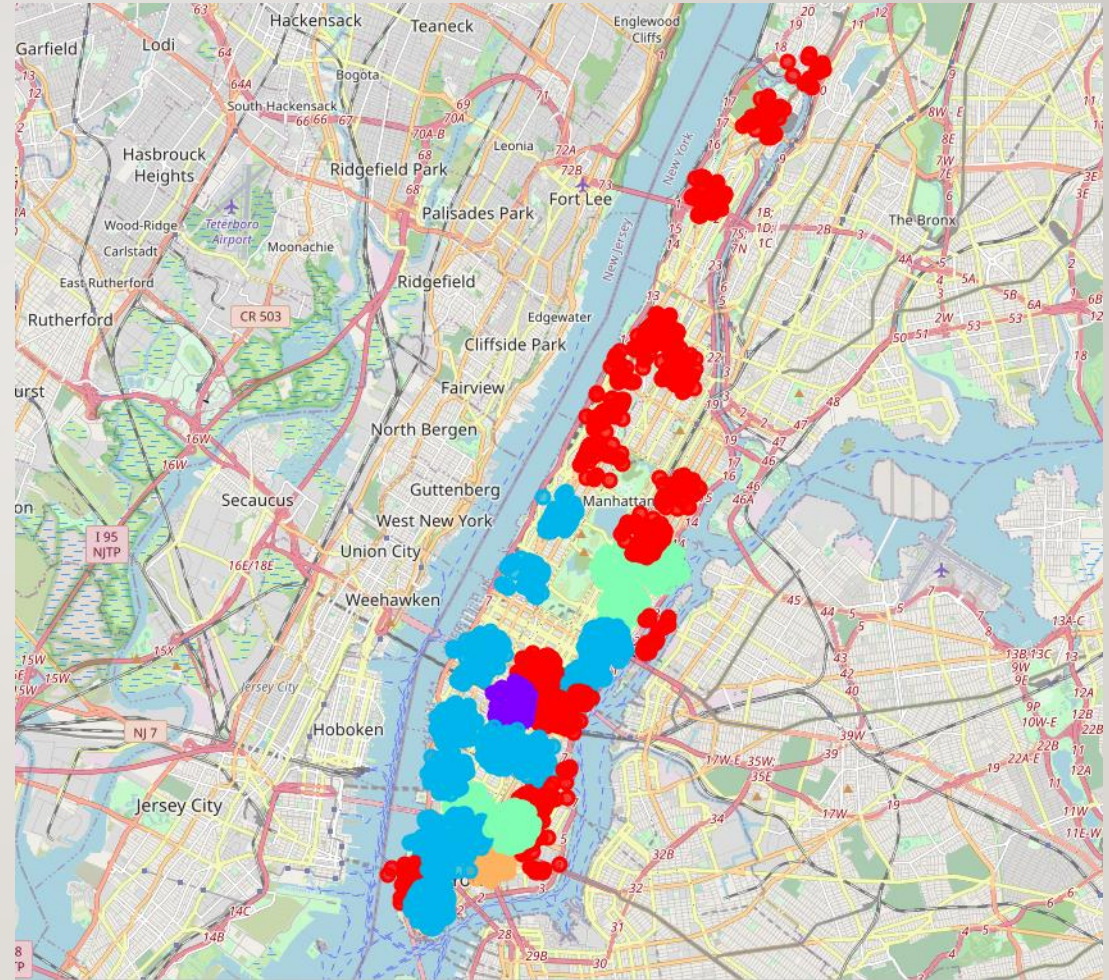
As we can see the popular restaurant is Italian restaurants, coming second is American restaurants





# MAP AFTER CLUSTERING

Neighborhood are clustered using k  
means technique



# CONCLUSION AND FUTURE DIRECTIONS

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- In this study, I analyzed the restaurants and neighborhoods and come to conclusion that Italian restaurant is the most common restaurant in all neighborhood. We also find out the 10 most common restaurant cuisines in all neighborhood. So from this data we can predict the new cuisines to be add to a restaurant menu
- By adding restaurant rating from place can also help in determining the good restaurant type. Also, availability of food product can refine the profit even more.