PROTECT | EMPOWER | ASIANS 2021

BATTLE of the MANHATTAN Neighborhoods

EMPOWER | PROTECT | ASIANS 2021

The NBCNEWS article

https://www.nbcnews.com/news/asi an-america/anti-asian-hate-crimesincreased-nearly-150-2020-mostlyn-n1260264 stated that "Anti-Asian hate crimes increased by nearly 150% in 2020, mostly in N.Y. and L.A."

"The analysis revealed a surge in cities such as New York, where anti-Asian hate crimes rose from three in 2019 to 28 in 2020, a 833 percent increase."



NEWYORK CITY NEIGHBORHOODS

New York City Boroughs and Neighborhoods

New York city has a total of 5 boroughs and 306 neighborhoods



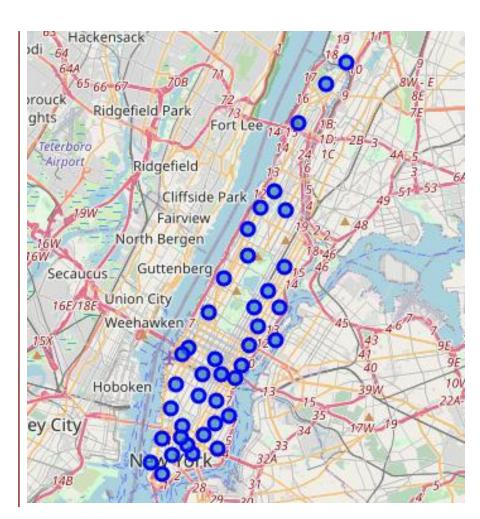
MANHATTAN NEIGHBORHOODS

Manhattan Neighborhoods

Program Organizers would like to launch the project in the Asian community in the Manhattan area.

We will recommend the areas where a number of Asians frequent in the Manhattan area.

Locating Asian Restaurants will be the ideal venues to begin with.



Use FourSquare API to get nearby venues at the Manhattan neighborhoods

	Neighborhood	Neighborhood Latitude	•	Venue	Venue Latitude	Venue Longitude	
0	Marble Hill	40.876551	-73.91066	Bikram Yoga	40.876844	-73.906204	Yoga Studio
1	Marble Hill	40.876551	-73.91066	Arturo's	40.874412	-73.910271	Pizza Place
2	Marble Hill	40.876551	-73.91066	Tibbett Diner	40.880404	-73.908937	Diner
3	Marble Hill	40.876551	-73.91066	Astral Fitness & Wellness Center	40.876705	-73.906372	Gym
4	Marble Hill	40.876551	-73.91066	Starbucks	40.877531	-73.905582	Coffee Shop

Manhattan Neighborhoods Top Venues

Battery Park City venue freq Chinese Restaurant 0.5 Japanese Restaurant 0.5 Asian Restaurant 0.0 Shanghai Restaurant 0.0 Udon Restaurant 0.0	Civic Center venue freq Korean Restaurant 0.4 Sushi Restaurant 0.4 Asian Restaurant 0.2 Dim Sum Restaurant 0.0 Dumpling Restaurant 0.0	•Flatiron venue freq 0 Japanese Restaurant 0.50 1 Korean Restaurant 0.25 2 Thai Restaurant 0.12 3 Sushi Restaurant 0.12 4 Malay Restaurant 0.00
Carnegie Hill venue freq 8 Sushi Restaurant 0.4 1 Vietnamese Restaurant 0.2 2 Chinese Restaurant 0.2 3 Japanese Restaurant 0.2 4 Shanghai Restaurant 0.0	venue freq Korean Restaurant 0.25 Chinese Restaurant 0.25 Dim Sum Restaurant 0.25 Thai Restaurant 0.25 Shanghai Restaurant 0.00	venue freq Vietnamese Restaurant 0.2 Dim Sum Restaurant 0.2 Thai Restaurant 0.2 Filipino Restaurant 0.2 Sushi Restaurant 0.2
venue freq Chinese Restaurant 1.0 Asian Restaurant 0.0 Malay Restaurant 0.0 Udon Restaurant 0.0 Thai Restaurant 0.0	East Harlem venue freq Thai Restaurant 1.0 Asian Restaurant 0.0 Malay Restaurant 0.0 Udon Restaurant 0.0 Taiwanese Restaurant 0.0	•Greenwich Village venue freq Sush1 Restaurant 0.5 Vietnamese Restaurant 0.2 Chinese Restaurant 0.2 Udon Restaurant 0.1 Malay Restaurant 0.0
venue freq Thai Restaurant 0.29 Sushi Restaurant 0.29 Asian Restaurant 0.14 Chinese Restaurant 0.14 Japanese Restaurant 0.14	East Village venue freq Korean Restaurant 0.27 Vietnamese Restaurant 0.27 Japanese Restaurant 0.18 Chinese Restaurant 0.09 Filipino Restaurant 0.09	•Hamilton Heights venue freq 0 Chinese Restaurant 0.4 1 Sushi Restaurant 0.4 2 Japanese Restaurant 0.2 3 Asian Restaurant 0.0 4 Shanghai Restaurant 0.0
•Chinatown venue freq Chinese Restaurant 0.43 Asian Restaurant 0.09 Dumpling Restaurant 0.09 Malay Restaurant 0.09 Vietnamese Restaurant 0.09	venue freq 3 Japanese Curry Restaurant 0.5 Japanese Restaurant 0.5 Asian Restaurant 0.0 Shanghai Restaurant 0.0 Udon Restaurant 0.0	venue freq Thai Restaurant 1.0 Asian Restaurant 0.0 Malay Restaurant 0.0 Udon Restaurant 0.0 Taiwanese Restaurant 0.0

Manhattan Neighborhoods Top Venues

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7 Section Residuate VIII	wan nestaviane VIIT
Little ItalyMidtown South	in South
venue freq venue freq venue freq	vanua +nag
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Murray Hill	/ H111
venue freq venue freq venue freq 0 Korean Restaurant 0.5	venue trea
0 Japanese Restaurant 0.38	oco Roctamant 6 38
1 Vietnamese Kestaurant 0.15	ese Kestaurant 0.15
Sushi Restaurant 0.15	ISN1 Restaurant 0.15
Thai Restaurant 0.08	hai Restaurant 0.08
4 Japanese Restaurant 0.14 4 Shanghai Restaurant 0.08 4 Thai Restaurant 0.0	hai Restaurant 0.08 4 Thai Restaurant 0.0

Manhattan Neighborhoods Top Venues

```
----Tudor City----
                  venue freq
       Sushi Restaurant
                          0.3
  Vietnamese Restaurant
        Thai Restaurant
    Japanese Restaurant
    Shanghai Restaurant
                                    ----Washington Heights----
----Turtle Bay----
                                                    venue freq
                                      Chinese Restaurant
                                                           0.33
        Japanese Restaurant
                                          Thai Restaurant
           Sushi Restaurant 0.33
                                         Sushi Restaurant
                                                           0.33
2
            Thai Restaurant 0.17
                                         Asian Restaurant
           Asian Restaurant 0.08
                                         Malay Restaurant
                                                           0.00
  Japanese Curry Restaurant 0.08
                                    ----West Village----
----Upper East Side----
                                                    venue
                                                           freq
                venue frea
                                      Chinese Restaurant
                                                           0.50
   Chinese Restaurant
                                        Korean Restaurant
                                                           0.25
       Thai Restaurant 0.25
                                         Sushi Restaurant
                                                           0.25
  Japanese Restaurant
                                         Malay Restaurant
                                                           0.00
3
     Sushi Restaurant 0.25
                                         Udon Restaurant 0.00
     Asian Restaurant 0.00
                                    ----Yorkville----
----Upper West Side----
                                                       venue frea
                  venue
                                            Sushi Restaurant
                                                              0.33
        Thai Restaurant 0.25
       Sushi Restaurant 0.25
                                         Japanese Restaurant
                                                              0.25
       Asian Restaurant 0.12
                                      Vietnamese Restaurant
     Japanese Restaurant
                                             Thai Restaurant
                                                              0.08
  Vietnamese Restaurant 0.12
                                            Asian Restaurant 0.08
```

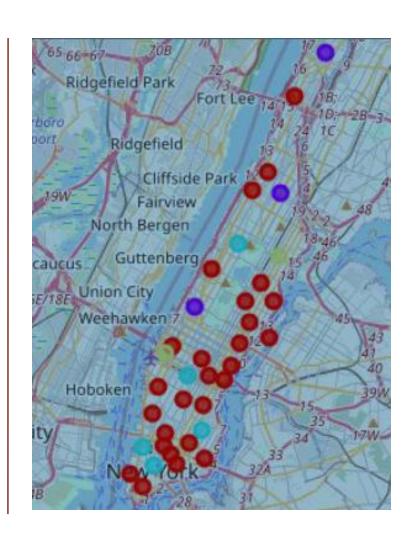
Total Asian Restaurants per Neighborhood

	Neighborhood Latitude
Neighborhood	
Chinatown	23
Midtown South	21
Murray Hill	13
Yorkville	12
Turtle Bay	12
East Village	12
Greenwich Village	10
Tudor City	10
Noho	10
Little Italy	10
Flatiron	8

ASIAN RESTAURANT CLUSTERING

Asian Restaurants Clusters

Using K-means clustering to partition Asian Restaurants in Manhattan and for further analysis



The 4 Clusters

Cluster 0

	Neighborhood	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Yenue	6th Most Common Venue	6th Most Common Venue	7th Most Common Venue	8th Most Common Venue	9th Most Common Venue	10th Most Common Venue
0	Bettery Park City	Japanese Restaurant	Chinese Restaurant	Vetnemese Restaurant	Contonese Restrurant	Dim Sum Restaurant	Dumpling Restaurant	Plipino Restaurant	Japanese Curry Restaurant	Korean Restaurant	Udon Restaurant
1	Carnegie Hill	Suchi Restaurant	Vietnamese Restaurant	Japanese Restaurant	Chinese Restaurant	Cantonese Restaurant	Dire Sum Restaurant	Durapling Restaurant	Filipino Restaurant	Japanese Curry Restaurant	Korean Restaurant
2	Chelsea	Thai Restaurant	Sushi Restaurant	Asian Restaurant	Chinese Restaurant	Japanese Restaurant	Japanese Curry Restaurant	Cantonese Restaurant	Dire Sum Restaurant	Dumping Restaurant	Filipino Restaurant
4	Chinateen	Chinese Restaurant	Visitnamene Restaurant	Maley Restaurant	Dumpling Restaurant	Asian Restaurant	Shanghai Restaurant	Talwanese Restaurant	Dim Sum Restaurant	Trai Restaurant	Contonese Restaurant
6	Clinton	Korean Restaurant	Thei Restaurant	Othnese Restaurant	Dim Gum Restaurant	Japanese Restaurant	Cartonese Restaurant	Dumpling Restaurant	Filipino Restaurant	Japanese Curry Restaurant.	Vietnamese Restaurant
9	Financial District	Japanese Restaurant	Japanese Curry Restaurant	Vetnamese Restaurant	Cantonese Restaurant	Chinese Restaurant	Dire Sum Restaurant	Duraping Restaurant	Filipino Restaurant	Korean Restaurant	Udon Restaurant
10	Flatron	Japanese Restaurant	Korean Restaurant	The Restaurant	Sughi Restaurant	Japanese Curry Restaurant	Cartonese Restaurant	Chinese Restaurant	Dim Sum Restaurant	Dumping Restaurant	Pilipino Restaurant

Cluster 1

	Neighborhood	fish Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue	7th Most Common Venue	8th Most Common Venue	5th Most Common Venue	10th Most Common Venue
2	Central Harlem	Chinese Restaurant	Visitnamese Resisurant	Japanese Restaurant	Centonese Restaurant	Dim Sum Restaurant	Dumping Restaurant	Filipino Restaurant	Japanese Curry Restaurant	Korean Restaurant	Udon Restaurant
15	Inwood	Chinese Restaurant	Vietnamese Restaurant	Japanese Restaurant	Cantonese Restaurant	Dire Sum Restaurant	Dumping Restaurant	Filipino Restaurant	Japanese Curry Restaurant	Korean Restaurant	Udon Restaurant
17	Lincoln Square	Chinese Restaurant	Vietnamese Restaurant	Japanese Restaurant	Cantonese Restaurant	Dim Sum Restaurant	Dumping Restaurant	Filipino Restaurant	Japanese Curry Restaurant	Korean Restaurant	Udon Restaurant

Cluster 2

	Neighborhood	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	6th Most Common Venue	6th Most Common Venue	7th Most Common Venue	8th Most Common Venue	5th Most Common Venue	19th Most Common Venue
5	Civic Center	Korean Restaurant	Sushi Restaurant	Asian Restaurant	Talwanese Restaurant	Spethuan Restaurant	The Reservant	Shanghai Restaurant	Malay Restaurant	Udon Restaurant	Japanese Restaurant
	East Village	Vietnamese Restaurant	Korean Restaurant	Japanese Restaurant	Talwanese Restaurant	Filipino Restaurant	Chinese Restaurant	Thai Restaurant	Spechuan Restaurant	Sushi Restaurant	Shanghai Restaurant
20	Manhatian Valley	Thei Restaurant	Vietnamese Restaurant	Spechuan Restaurant	Korean Restaurant	Tahvanese Restaurant	Sushi Restaurant	Shanghai Restaurant	Malay Restaurant	Udon Restaurant	Japanese Restaurant
23	Mictown South	Korean Restaurant	Japanese Restaurant	Cantonese Restaurant	Chinese Restaurant	Dim Sum Restaurant	Dumpling Restaurant	Filipino Restaurant	Japanese Curry Restaurant	Vietnamese Restaurant	Udon Restaurant
29	Tribeca	Korean Restaurant	Sushi Restaurant	Japanese Restaurant	Contonese Restaurant	Chinese Restaurant	Dim Sum Restaurant	Dumpling Restaurant	Filipino Restaurant	Japanese Cony Restaurant	Visitnemese Restaurant.

Cluster 3

	Neighborhood	142 Most Common Venue	2nd Most Common Venue	and Most Common Venue	4th Most Common Venue	5th Most Common Vesue	eth Most Common Yesue	Value Most Common Venue	STR MOSE Common Venue	3th Most Common Venue	10th Blost Common Venue
	7 East Harlen	Thai Restaurant	Vietnamese Restaurant	Japanese Restaurant	Cantonese Restaurant	Chinese Restaurant	Dim Sum Restaurant	Dumpling Restaurant	Filipino Restaurant	Japanese Curry Restaurant	Korean Restaurant
1	4 Hudson Yards	Thei Restaurant	Vietnamese Restaurant	Japanese Restaurant	Contonese Restaurant	Chinese Restaurant	Dim Sum Restaurant	Dumpling Restaurant	Pilipino Restaurant	Japanese Curry Restaurant	Korean Restaurant

RECOMMENDATIONS

- The project can target the top neighbourhoods with the most Asian restaurants.
- The top Asian restaurants per neighbourhood can give insights to the customization of the program
- Cluster o shows that the most common are Japanese restaurants
- Cluster 1 shows that the most common are Chinese Restaurants
- Cluster 2 shows that most common are Korean Restaurants
- Cluster 3 shows that the most common are Thai Restaurants

CONCLUSION

CONCLUSION

 The program team can start with Chinatown and Midtown South where they can find most of the Asian restaurants.

- Adapt the program to the following communities which make up the different clusters:
 - Japanese
 - Chinese
 - Korean
 - Thai