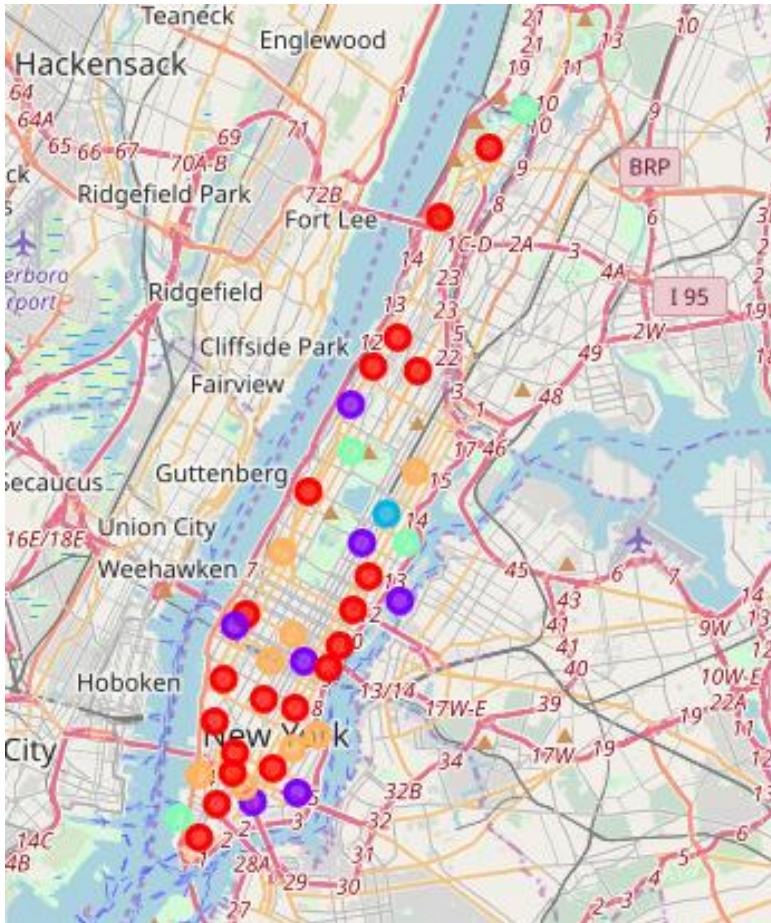


Manhattan restaurant analysis

Capstone project

Restaurant clusters



Total 40 neighborhoods in Manhattan

979 restaurants returned by searching the top 200 venues within a radius of 500 meters per neighborhood from Foursquare

Manhattan has 76 different types of restaurant , offering wide selection of foods

Top 10 Restaurant	Total number	% Total venue
Italian Restaurant	136	14%
American Restaurant	77	8%
Mexican Restaurant	58	6%
French Restaurant	57	6%
Sushi Restaurant	47	5%
Chinese Restaurant	46	5%
Japanese Restaurant	43	5%
Seafood Restaurant	40	4%
Indian Restaurant	30	3%
Thai Restaurant	27	3%

- Italian, America, and Mexican restaurants have the most representation

Greenwich Village, Chinatown, and East Village are the most competitive neighborhoods

Neighborhood	Total venues
Greenwich Village	44
Chinatown	41
East Village	40
Turtle Bay	38
Upper West Side	37
West Village	36
Noho	34
Murray Hill	33
Flatiron	32
Midtown South	31
Sutton Place	30
Lenox Hill	29
Tudor City	28
Yorkville	28
Tribeca	27
Carnegie Hill	26
Chelsea	26
Gramercy	26
Little Italy	26
Upper East Side	26

Neighborhood	Total venues
Civic Center	24
Financial District	22
Manhattan Valley	22
Washington Heights	22
Clinton	21
Midtown	21
Hamilton Heights	19
Soho	19
Manhattanville	18
Lincoln Square	16
East Harlem	15
Inwood	15
Lower East Side	15
Central Harlem	14
Hudson Yards	14
Battery Park City	10
Morningside Heights	9
Marble Hill	2
Roosevelt Island	2
Stuyvesant Town	1

Cluster 1 (red color dots on map)

20 neighborhoods

	Neighborhood	1st 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	9th Most Common Venue	10th Most Common Venue
2	Washington Heights	Café	Bakery	Mobile Phone Shop	Spanish Restaurant	Sandwich Place	Chinese Restaurant	Shoe Store	Grocery Store	Gym	Mexican Restaurant
3	Inwood	Café	Mexican Restaurant	Pizza Place	Lounge	Deli / Bodega	Wine Bar	American Restaurant	Bakery	Restaurant	Park
4	Hamilton Heights	Mexican Restaurant	Deli / Bodega	Café	Coffee Shop	Pizza Place	Yoga Studio	Chinese Restaurant	Sandwich Place	Cocktail Bar	Liquor Store
5	Manhattanville	Deli / Bodega	Sushi Restaurant	Italian Restaurant	Mexican Restaurant	Seafood Restaurant	Diner	Supermarket	Burger Joint	Bus Station	Spanish Restaurant
6	Central Harlem	African Restaurant	French Restaurant	Pizza Place	American Restaurant	Gym / Fitness Center	Cosmetics Shop	Chinese Restaurant	Seafood Restaurant	Bookstore	Ethiopian Restaurant
10	Lenox Hill	Italian Restaurant	Coffee Shop	Sushi Restaurant	Gym / Fitness Center	Pizza Place	Gym	Sporting Goods Shop	Burger Joint	Art Gallery	Bakery
12	Upper West Side	Italian Restaurant	Bar	Coffee Shop	Wine Bar	Bakery	Burger Joint	Indian Restaurant	Vegetarian / Vegan Restaurant	Seafood Restaurant	Gym / Fitness Center
14	Clinton	Theater	Coffee Shop	Gym / Fitness Center	American Restaurant	Italian Restaurant	Gym	Wine Shop	Spa	Hotel	Dog Run
17	Chelsea	Coffee Shop	Italian Restaurant	Ice Cream Shop	Nightclub	Bakery	American Restaurant	Hotel	Seafood Restaurant	Theater	Art Gallery
18	Greenwich Village	Italian Restaurant	Sushi Restaurant	Clothing Store	French Restaurant	Seafood Restaurant	Indian Restaurant	Café	Chinese Restaurant	Sandwich Place	Caribbean Restaurant
23	Soho	Clothing Store	Boutique	Women's Store	Men's Store	Shoe Store	Coffee Shop	Italian Restaurant	Mediterranean Restaurant	Art Gallery	Design Studio
24	West Village	Italian Restaurant	New American Restaurant	Cosmetics Shop	Wine Bar	Gastropub	Jazz Club	Park	American Restaurant	Bakery	French Restaurant
27	Gramercy	Italian Restaurant	Bagel Shop	Cocktail Bar	Coffee Shop	Restaurant	Wine Shop	American Restaurant	Grocery Store	Mexican Restaurant	Pizza Place
29	Financial District	Coffee Shop	Hotel	Steakhouse	Wine Shop	Bar	Gym	Food Truck	Italian Restaurant	Pizza Place	Vegetarian / Vegan Restaurant
31	Noho	Italian Restaurant	French Restaurant	Cocktail Bar	Grocery Store	Mexican Restaurant	Coffee Shop	American Restaurant	Bookstore	Hotel	Gift Shop
32	Civic Center	Gym / Fitness Center	Italian Restaurant	Bakery	French Restaurant	Yoga Studio	Sporting Goods Shop	Park	Coffee Shop	Cocktail Bar	Gym
34	Sutton Place	Gym / Fitness Center	Italian Restaurant	Furniture / Home Store	Indian Restaurant	Juice Bar	Dessert Shop	American Restaurant	Bakery	Sushi Restaurant	Beer Garden
35	Turtle Bay	Italian Restaurant	Sushi Restaurant	Wine Bar	Hotel	Coffee Shop	Japanese Restaurant	Noodle House	Park	Steakhouse	French Restaurant
36	Tudor City	Park	Pizza Place	Greek Restaurant	Café	Mexican Restaurant	Hotel	Dog Run	Deli / Bodega	Diner	Asian Restaurant
38	Flatiron	Italian Restaurant	Yoga Studio	American Restaurant	New American Restaurant	Gym / Fitness Center	Women's Store	Sporting Goods Shop	Cosmetics Shop	Gym	Clothing Store

Cluster 2 (purple color dots on map)

7 neighborhoods

	Neighborhood	1st 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	9th Most Common Venue	10th Most Common Venue
1	Chinatown	Chinese Restaurant	Bubble Tea Shop	American Restaurant	Cocktail Bar	Vietnamese Restaurant	Dim Sum Restaurant	Hotpot Restaurant	Salon / Barbershop	Noodle House	Bakery
8	Upper East Side	Italian Restaurant	Exhibit	Art Gallery	Coffee Shop	Bakery	Juice Bar	Hotel	French Restaurant	Boutique	Gym / Fitness Center
11	Roosevelt Island	Park	Sandwich Place	Deli / Bodega	Greek Restaurant	Liquor Store	Coffee Shop	Gym	School	Baseball Field	Residential Building (Apartment / Condo)
16	Murray Hill	Hotel	Japanese Restaurant	Bar	Spa	Coffee Shop	Salon / Barbershop	French Restaurant	Sandwich Place	Italian Restaurant	Gym
20	Lower East Side	Coffee Shop	Café	Latin American Restaurant	Ramen Restaurant	Japanese Restaurant	Sandwich Place	Cocktail Bar	Art Gallery	Shoe Store	Chinese Restaurant
26	Morningside Heights	Coffee Shop	Bookstore	American Restaurant	Food Truck	Park	Tennis Court	Deli / Bodega	Burger Joint	Sandwich Place	Outdoor Sculpture
39	Hudson Yards	Coffee Shop	Italian Restaurant	Café	Hotel	American Restaurant	Theater	Gym / Fitness Center	Restaurant	Thai Restaurant	Gym

Cluster 3 (blue color dots on map)

1 neighborhood

	Neighborhood	1st 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	9th Most Common Venue	10th Most Common Venue
30	Carnegie Hill	Pizza Place	Cosmetics Shop	Coffee Shop	Café	Yoga Studio	Gym	Bar	French Restaurant	Japanese Restaurant	Bookstore

Cluster 4 (key lime color dots on map)

4 neighborhoods

	Neighborhood	1st 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	9th Most Common Venue	10th Most Common Venue
0	Marble Hill	Coffee Shop	Discount Store	Yoga Studio	Kids Store	Steakhouse	Supplement Shop	Shopping Mall	Shoe Store	Tennis Stadium	Seafood Restaurant
9	Yorkville	Italian Restaurant	Gym	Bar	Coffee Shop	Pizza Place	Japanese Restaurant	Sushi Restaurant	Mexican Restaurant	Deli / Bodega	Spa
25	Manhattan Valley	Coffee Shop	Pizza Place	Yoga Studio	Spa	Szechuan Restaurant	Mexican Restaurant	Bar	Italian Restaurant	Deli / Bodega	Thai Restaurant
28	Battery Park City	Coffee Shop	Park	Hotel	Wine Shop	Italian Restaurant	Burger Joint	Cupcake Shop	Department Store	Plaza	BBQ Joint

Cluster 5 (peach color dots on map)

8 neighborhoods

	Neighborhood	1st 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	9th Most Common Venue	10th Most Common Venue
7	East Harlem	Mexican Restaurant	Bakery	Latin American Restaurant	Deli / Bodega	Thai Restaurant	Beer Bar	Liquor Store	Grocery Store	Coffee Shop	Spanish Restaurant
13	Lincoln Square	Gym / Fitness Center	Theater	Concert Hall	Italian Restaurant	Plaza	Café	French Restaurant	Park	Indie Movie Theater	Performing Arts Venue
15	Midtown	Hotel	Theater	Steakhouse	Clothing Store	Coffee Shop	American Restaurant	Bakery	Food Truck	Park	Bookstore
19	East Village	Bar	Ice Cream Shop	Wine Bar	Mexican Restaurant	Cocktail Bar	Speakeasy	Ramen Restaurant	Chinese Restaurant	Pizza Place	Korean Restaurant
21	Tribeca	Italian Restaurant	American Restaurant	Spa	Café	Park	Wine Bar	Coffee Shop	Greek Restaurant	Boutique	Gym
22	Little Italy	Bakery	Café	Yoga Studio	Bubble Tea Shop	Salon / Barbershop	Sandwich Place	Cocktail Bar	Seafood Restaurant	Ice Cream Shop	Women's Store
33	Midtown South	Korean Restaurant	Coffee Shop	Cosmetics Shop	Hotel Bar	Japanese Restaurant	Bakery	Italian Restaurant	Gym / Fitness Center	Cocktail Bar	Boutique
37	Stuyvesant Town	Bar	Playground	Park	Basketball Court	Pet Service	Cocktail Bar	Coffee Shop	Heliport	Farmers Market	Baseball Field