NERD GUIDE TO NEW YORK CITY

THE ULTIMATE NERD GUIDE TO NEW YORK CITY

BuzzFeed

Legend:
- VIDEO GAMES (pink)
- TELEVISION (magenta)
- MOVIES (green)
- BOOKS (yellow)
- COMICS (purple)

NIGHTWING'S SECRET HQ
NIGHTWING
200TH & BROADWAY

MEETING WITH CYRUS
THE WARRIORS
NORTH BRONX

DAREDEVIL'S NEIGHBORHOOD
DAREDEVIL
HELL'S KITCHEN

LUKE CAGE'S OFFICE AT THE GEM
LUKE CAGE
234 W 42ND ST

THE BAXTER BUILDING
THE FANTASTIC FOUR
MADISON AVE & E 42ND ST

GLADIATOR ARENA
ESCAPE FROM NEW YORK
MADISON SQUARE GARDEN

THE DAILY BUGLE
SPIDER-MAN: THE MOVIE
FLATIRON BUILDING
1 W 23RD ST

THE DAILY PLANET
SUPERMAN: THE MOVIE
220 EAST 42ND STREET

MUSEUM OF NATURAL HISTORY
NIGHT AT THE MUSEUM
79TH AND CENTRAL PARK WEST

THE DAKOTA
TIME AND AGAIN
1 W 72ND ST

ODETTA PUSHED IN FRONT OF TRAIN
THE DARK TOWER
CHRISTOPHER ST STATION

DANA BARRETT (ZUUL)'S APARTMENT
GHOSTBUSTERS
55 CENTRAL PARK WEST

JAKE PICKERING'S APARTMENT
TIME AND TIME AGAIN
19 GRAMERCY PARK S

BETH'S APARTMENT
CLOVERFIELD
10 COLUMBUS CIR

AVENGERS HQ
THE AVENGERS
890 5TH AVE

PRISM HQ
CRYSIS 2
ROOSEVELT ISLAND

THE SANCTUM SANCTORUM
DOCTOR STRANGE
177 BLEECKER ST

ROBERT NEVILLE'S HOUSE
I AM LEGEND
11 WASHINGTON PARK N.

FUTURE HOME OF PLANET EXPRESS
FUTURAMA
W 57TH ST. & 12TH AVE

ORIGINAL S.H.I.E.L.D. HQ
NICK FURY: AGENT OF S.H.I.E.L.D
59TH ST AND MADISON AVE

FINAL SHOWDOWN AT THE UNISPHERE
MEN IN BLACK
EXPO FAIR GROUNDS, QUEENS

DOC OCK'S LABORATORY
SPIDER-MAN 2: THE MOVIE
32 2ND AVE

REFUGE FROM THE MONSTER
CLOVERFIELD
SPRING ST 6 STOP

LITTLE MAC'S TRAINING ROUTE
MIKE TYSON PUNCH OUT
PIER 6, BROOKLYN

PETER PARKER'S APARTMENT
SPIDER-MAN: THE MOVIE
187 CHRYSTIE ST

STARK TOWER
IRON MAN
COLUMBUS CIRCLE

QUENTIN'S HOUSE
THE MAGICIANS
336 3RD ST, BROOKLYN

MASSIVE DYNAMIC
FRINGE
WTC BUILDING #7

DAY 52
RAMPAGE
MIDTOWN

GHOSTBUSTERS HEADQUARTERS
GHOSTBUSTERS
14 N MOORE ST

MANHATTAN RESTAURANT OF THE MIND
THE DARK TOWER
2ND AVE & E 53RD ST

MARIO'S PLUMBING
SUPER MARIO BROS.
FLATBUSH, BROOKLYN

MIB HQ
MEN IN BLACK
2 BROADWAY

TEENAGE MUTANT NINJA TURTLES HQ
TEENAGE MUTANT NINJA TURTLES
CITY HALL SUBWAY STATION

UNATCO BUNKER
DEUS EX
LIBERTY ISLAND

ENDING OF PLANET OF THE APES
PLANET OF THE APES
LIBERTY ISLAND

THE DARK TOWER AND VACANT LOT
THE DARK TOWER
2 DAG HAMMARSKJOLD PLAZA

THE BLUE FAIRY
A.I.
CONEY ISLAND

THE WARRIORS HEADQUARTERS
THE WARRIORS
CONEY ISLAND

INTRODUCTION

Although traveling is a pure joy, preparing it is full of agony

- Visiting New York City on a budget might sound a bit far-fetched for some travelers, but with a little careful planning, you can have a successful trip to NYC on any budget.

- While New York City is known to be one of the world's most expensive cities, there are plenty of ways to have an incredible trip without breaking the bank. One of my favorite ways to explore city, venues, budget hotels is always through checking with Foursquare

Aim: This project is aimed to make your travel experience to New York Simple by Providing all nearby locations, local areas, hotels, best places to visit in new York with help of Foursquare datasets.

Overview of How it Works:

➢ Foursquare API provides great amount of quality data's about locations.(cafe, restaurant etc)

➢ Using this data will allow tourists to easily decide where to go when they are in a specific city.

OBJECTIVES:

- First of all, the geojson data for each city's neighborhood is required.

- Then, analyzing the data using the Foursquare API.

- Use clustering to identify each area and its category.

GEOGRAPHICAL DATA (Data frame)

	Neighborhood	Latitude	Longitude
0	Wakefield	40.8947	−73.8472
1	Co-op City	40.8743	−73.8299
2	Eastchester	40.8876	−73.8278
3	Fieldston	40.8954	−73.9056
4	Riverdale	40.8908	−73.9126
5	Kingsbridge	40.8817	−73.9028
6	Marble Hill	40.8766	−73.9107
7	Woodlawn	40.8983	−73.8673
8	Norwood	40.8772	−73.8794
9	Williamsbridge	40.881	−73.8574
10	Baychester	40.8669	−73.8358
11	Pelham Parkway	40.8574	−73.8548
12	City Island	40.8472	−73.7865
13	Bedford Park	40.8702	−73.8855
14	University Heights	40.8557	−73.9104
15	Morris Heights	40.8479	−73.9197
16	Fordham	40.861	−73.8964
17	East Tremont	40.8427	−73.8874
18	West Farms	40.8395	−73.8777
19	High Bridge	40.8366	−73.9261
20	Melrose	40.8198	−73.9094
21	Mott Haven	40.8062	−73.9161
22	Port Morris	40.8017	−73.9132

RESULT

- Using techniques such as K-means clustering, I was able to get results about common venues in city.

- This information can be really helpful to tourists since they can focus on what they are trying to experience most during their Travel .(Food, culture, sport etc)

- These techniques also provides the visualization of clustering of city.

Results of common venues of New York city

	Borough	Neighborhood	Latitude	Longitude	Cluster Labels	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue
0	Bronx	Wakefield	40.8947	-73.8472	3	Food Truck	Caribbean Restaurant	Ice Cream Shop	Pharmacy	Dessert Shop	Sandwich Place
1	Bronx	Co-op City	40.8743	-73.8299	3	Pizza Place	Bus Station	Mattress Store	Shopping Mall	Trail	Gift Shop
2	Bronx	Eastchester	40.8876	-73.8278	0	Caribbean Restaurant	Diner	Deli / Bodega	Donut Shop	Bus Station	Fast Food Restaurant
3	Bronx	Fieldston	40.8954	-73.9056	0	River	Rock Club	Plaza	Women's Store	Filipino Restaurant	Event Service
4	Bronx	Riverdale	40.8908	-73.9126	0	Park	Bank	Gym / Fitness Center	Gym	Bus Station	Plaza
5	Bronx	Kingsbridge	40.8817	-73.9028	3	Pizza Place	Sandwich Place	Discount Store	Supermarket	Latin American Restaurant	Bar
6	Manhattan	Marble Hill	40.8766	-73.9107	4	Discount Store	Yoga Studio	Diner	Shoe Store	Seafood Restaurant	Gym
7	Bronx	Woodlawn	40.8983	-73.8673	3	Deli / Bodega	Food & Drink Shop	Bar	Playground	Pizza Place	Indian Restaurant
8	Bronx	Norwood	40.8772	-73.8794	3	Pizza Place	Park	Bank	Bus Station	Pharmacy	Fast Food Restaurant
9	Bronx	Williamsbridge	40.881	-73.8574	3	Soup Place	Bar	Caribbean Restaurant	Nightclub	Women's Store	Eye Doctor
10	Bronx	Baychester	40.8669	-73.8358	4	Spanish Restaurant	Supermarket	Gym / Fitness Center	Mattress Store	Fast Food Restaurant	Sandwich Place
11	Bronx	Pelham Parkway	40.8574	-73.8548	4	Italian Restaurant	Chinese Restaurant	Pizza Place	Sandwich Place	Bus Station	Performing Arts Venue
12	Bronx	City Island	40.8472	-73.7865	3	Harbor / Marina	Thrift / Vintage	Seafood Restaurant	Spanish Restaurant	Pizza Place	Sandwich Place

Clustering Of New York City