Process Book Group_0

Data set contains { room type
lng, lat
price
Boroughs
host name
: etc.

Data: Airbnb

Url: inside airbnb.com

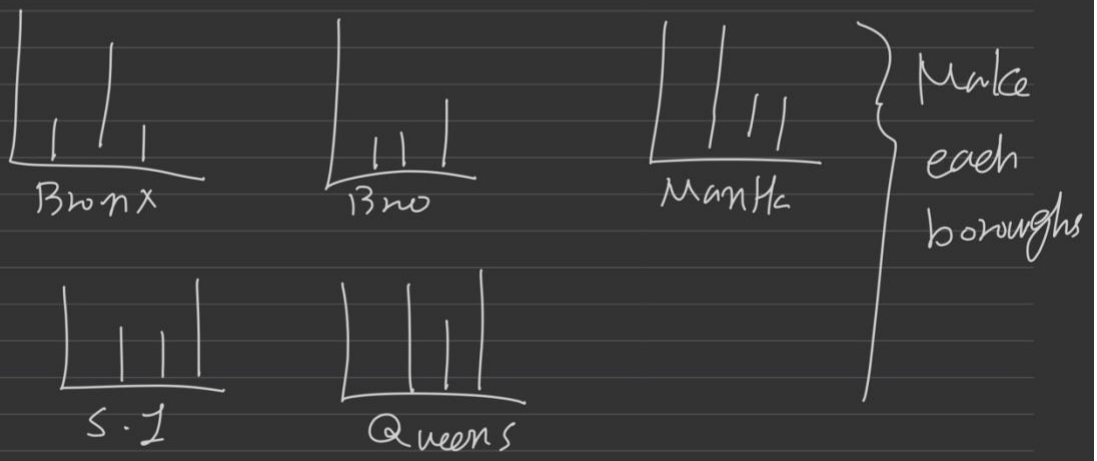
Lavanya => ggplot2

Su => word clouds

KJ => Geospatial

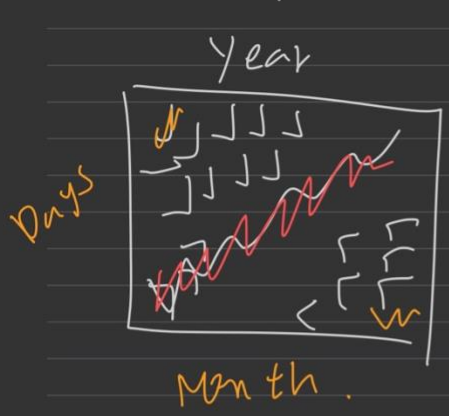
Armaan => Geospatial

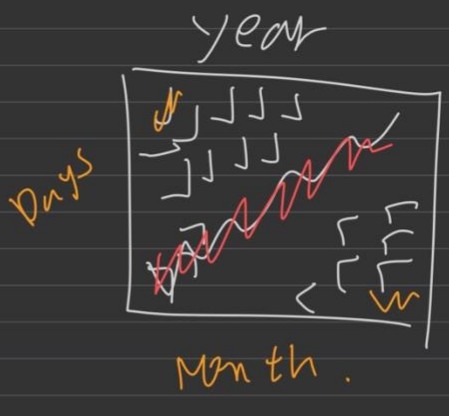
〈NYC Data set〉



↑ would be interesting observe each borough

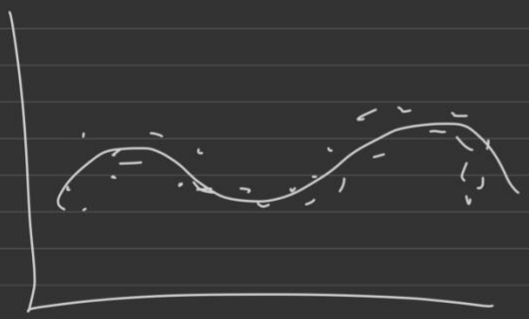
Heatmap





Revenue Rate

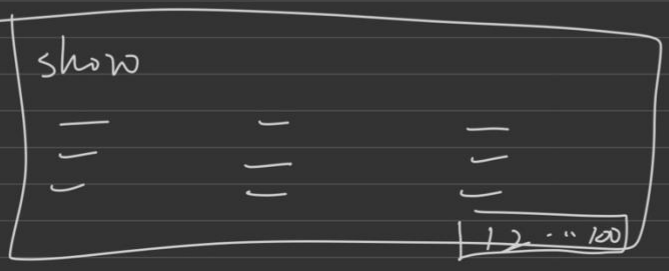
total Avg



& w/ trends line.

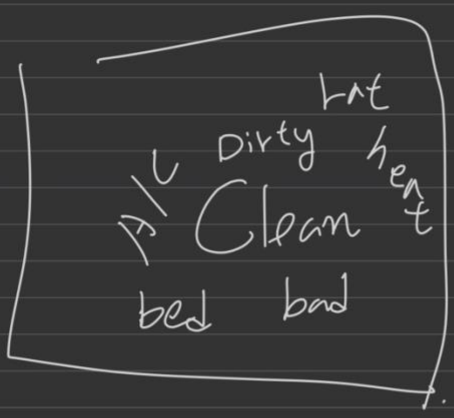
DT

data table

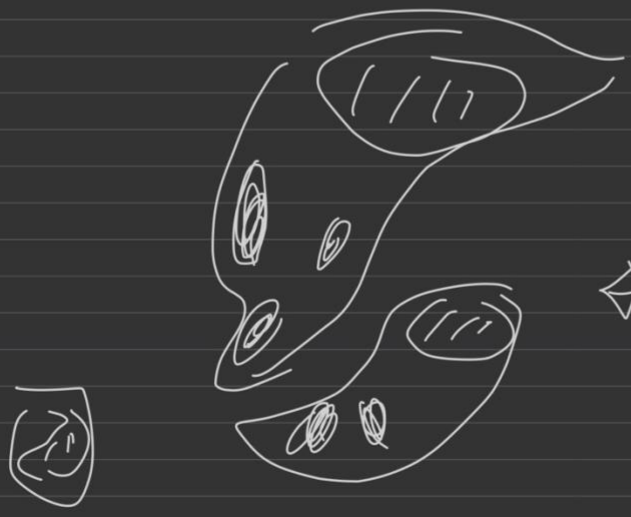


Word Cloud

{ Reviews w/ good ; bad



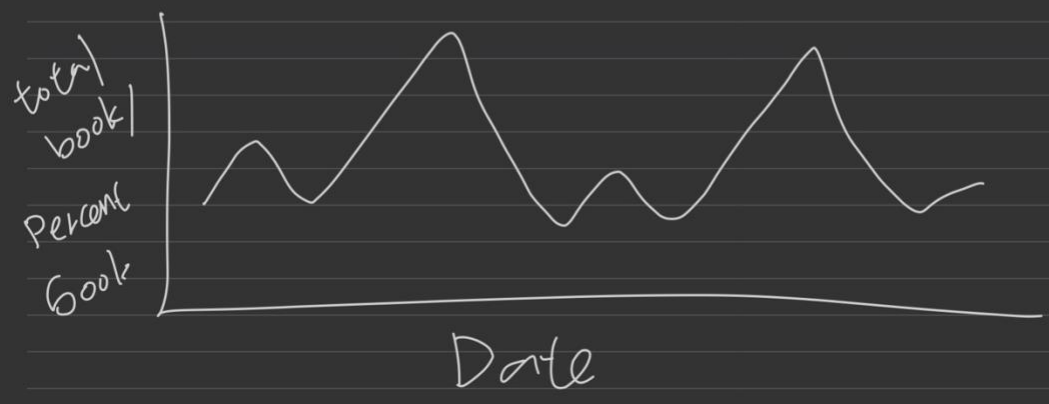
Geo - choropleth

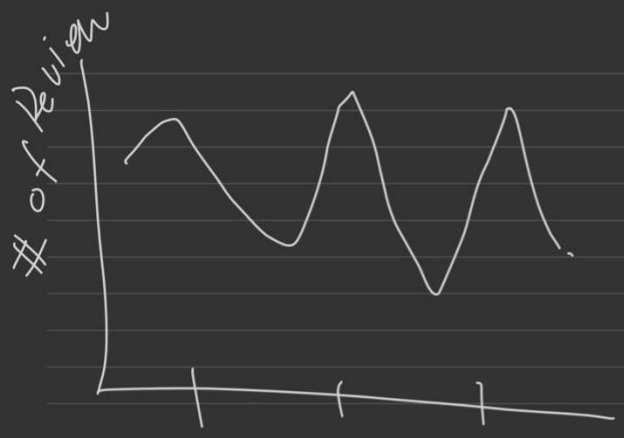


by room_type

Interactive? ggmap? leaflet?

Seasonal Change booking -



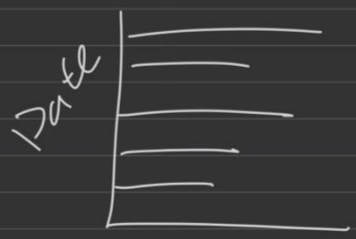


- possibly observe some pattern such as Vacation Seasons

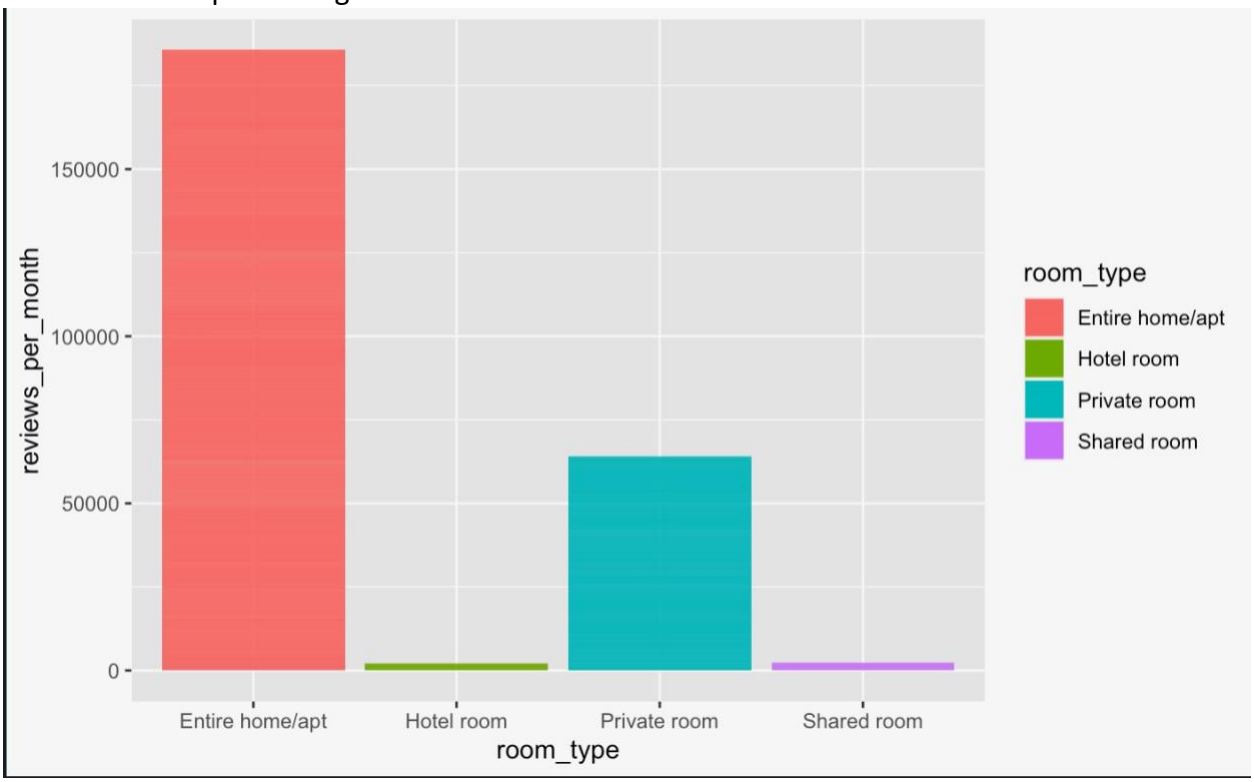
# of list occupancy revenue —

in 2019 e.g. 2M total

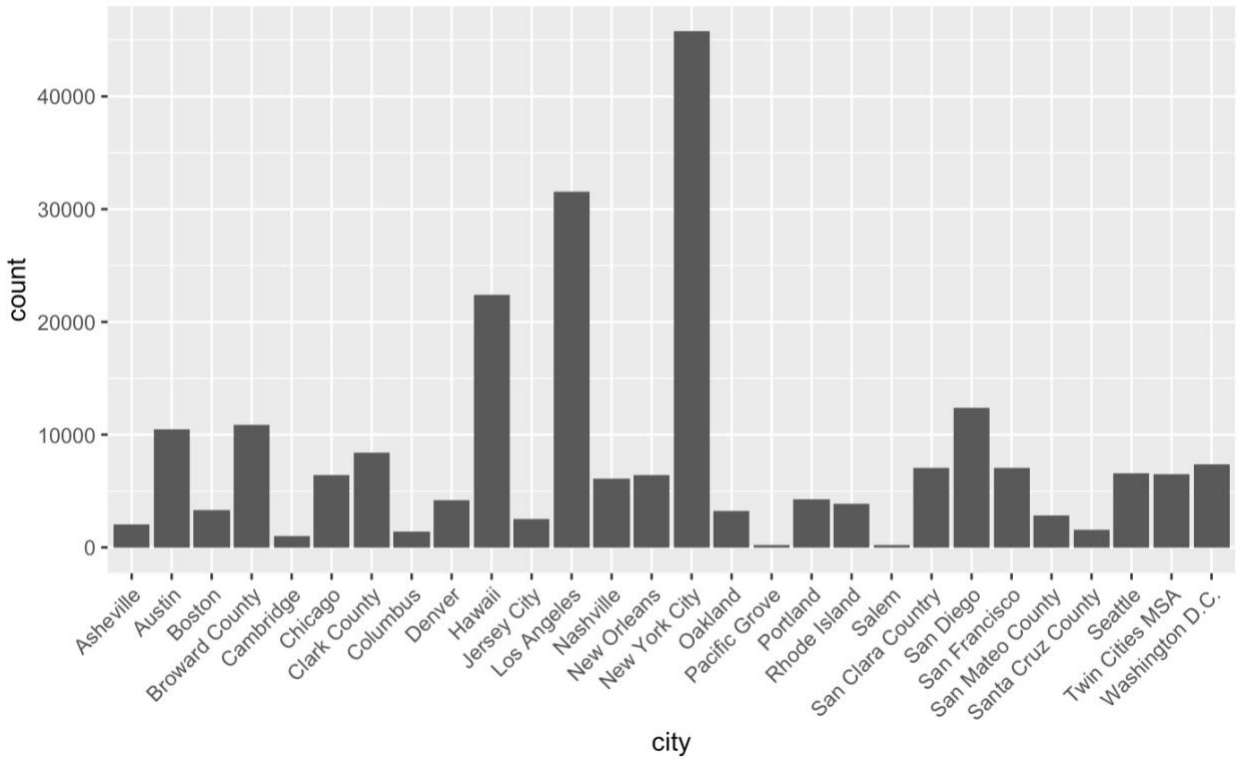
in 2020 0.7M total



Actual viz while processing

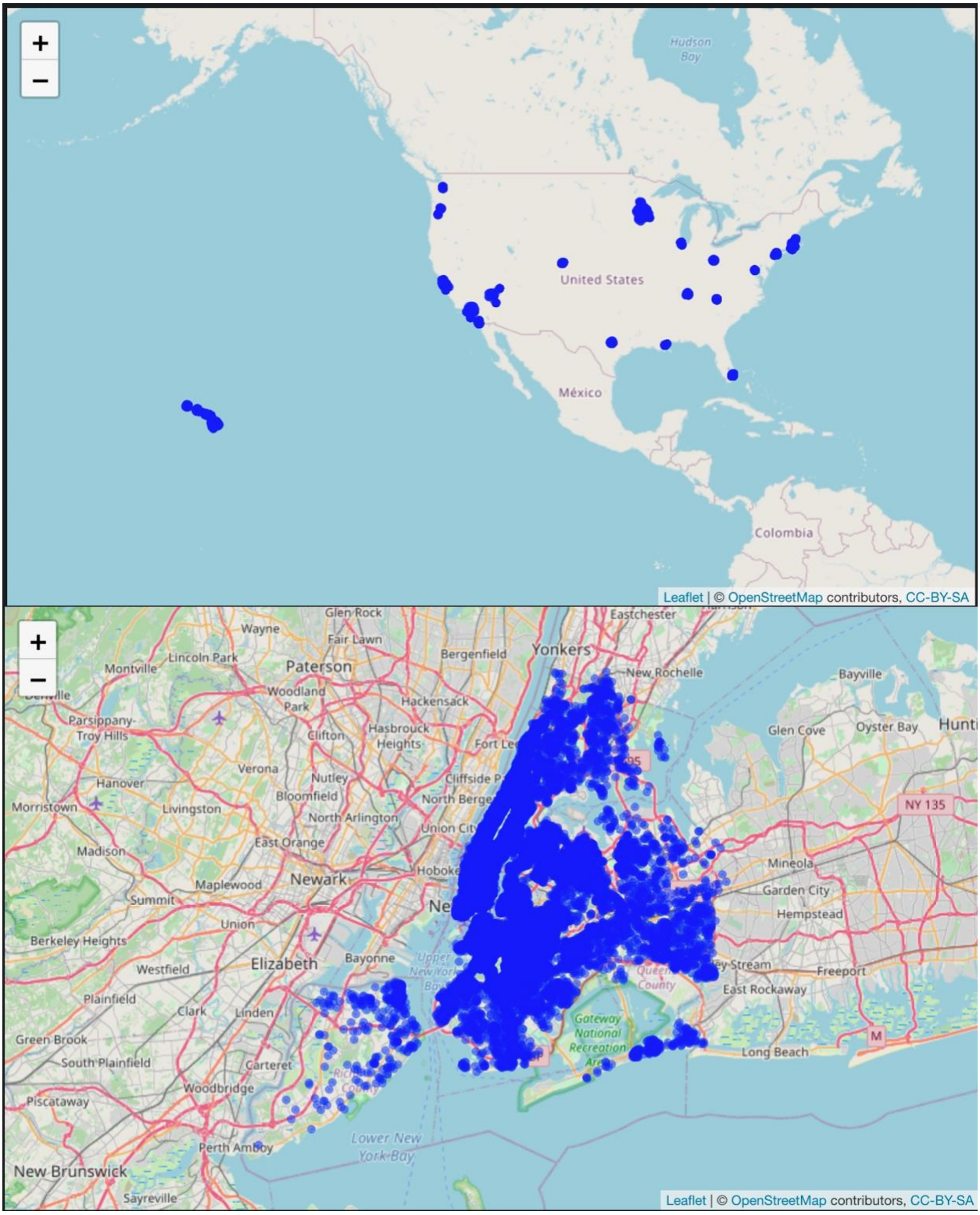


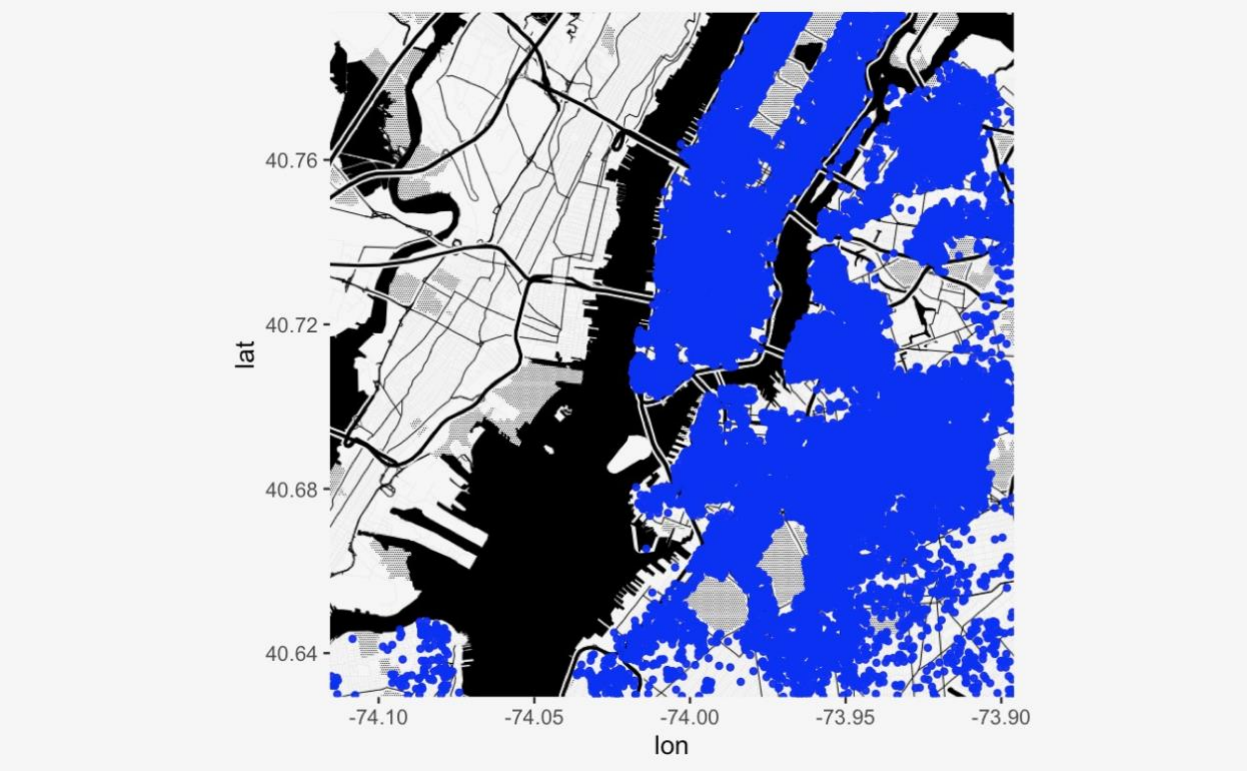
Room type & Reviews Per Month. It was the very basic ggplot2 package visualization.



We tried to use national level dataset at the beginning, but it was too big, so we ended up deciding to focus on New York City specifically.

This is the sample visualization when we imported multiple cities dataset. As seen in the figure, New York and Los angles have to most Airbnb vacancy.


Hudson Bay
United States
México
Colombia
Leaflet | © OpenStreetMap contributors, CC-BY-SA
Glen Rock
Wayne
Fair Lawn
Eastchester
Yonkers
Lincoln Park
Montville
Paterson
Bergenfield
New Rochelle
Bayville
Woodland Park
Hackensack
Parsippany-Troy Hills
Clifton
Hasbrouck Heights
Glen Cove
Oyster Bay
Verona
Nutley
Hanover
Bloomfield
Morristown
Livingston
North Arlington
NY 135
East Orange
Madison
Newark
Maplewood
Mineola
Summit
Garden City
Hempstead
Union
Berkeley Heights
Elizabeth
Bayonne
Westfield
Freeport
East Rockaway
Plainfield
Clark
Linden
Green Brook
South Plainfield
Carteret
Gateway National Recreation Area
Long Beach
Woodbridge
Piscataway
Perth Amboy
Lower New York Bay
New Brunswick
Sayreville
Leaflet | © OpenStreetMap contributors, CC-BY-SA



We tried to use geospatial map function and package actively. As mentioned, we tried to use national level dataset but at the moment when we visualize on the map, we realize our computer would not be able to handle the works. So, we focused on New York City. Those two leaflets are the first attempt.

Show 10 entries Search:

	room_type	price
1	Private room	60
2	Entire home/apt	470
3	Entire home/apt	75
4	Entire home/apt	90
5	Private room	125
6	Entire home/apt	134
7	Private room	48
8	Private room	65
9	Entire home/apt	71
10	Entire home/apt	50

Showing 1 to 10 of 226,030 entries Previous 1 2 3 4 5 … 22603 Next

Lastly, we tried to use DT package because it is a good to get the information by sorting, such as price and room type.