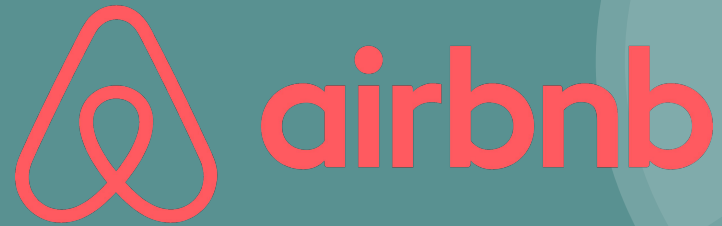


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Reviving Airbnb Business Revenue Post Covid

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- CHAITALI DESAI

Agenda

- ▶ Objective
- ▶ Key findings
- ▶ Recommendations
- ▶ Appendix:
 - ▶ Data Source
 - ▶ Data methodology
 - ▶ Data Assumptions



Objective

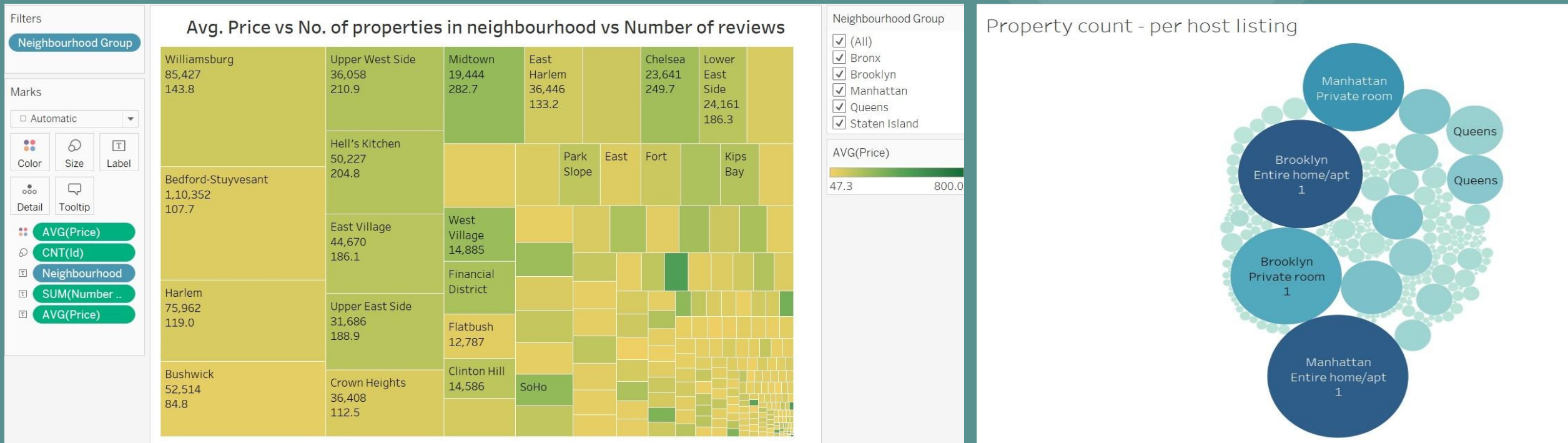
For the past few months, Airbnb has seen a major decline in revenue. Now that the restrictions have started lifting and people have started to travel more, Airbnb wants to make sure that it is fully prepared for this change.

The different leaders at Airbnb want to understand some important insights based on various attributes in the dataset so as to increase the revenue such as -

- ▶ Understand Key Insights from Pre-Covid Period (2011-2019) Data.
- ▶ Post Covid Business Analysis & Growth Opportunities.
- ▶ Identify Customer Preferences for Post Covid Travel Rebound.

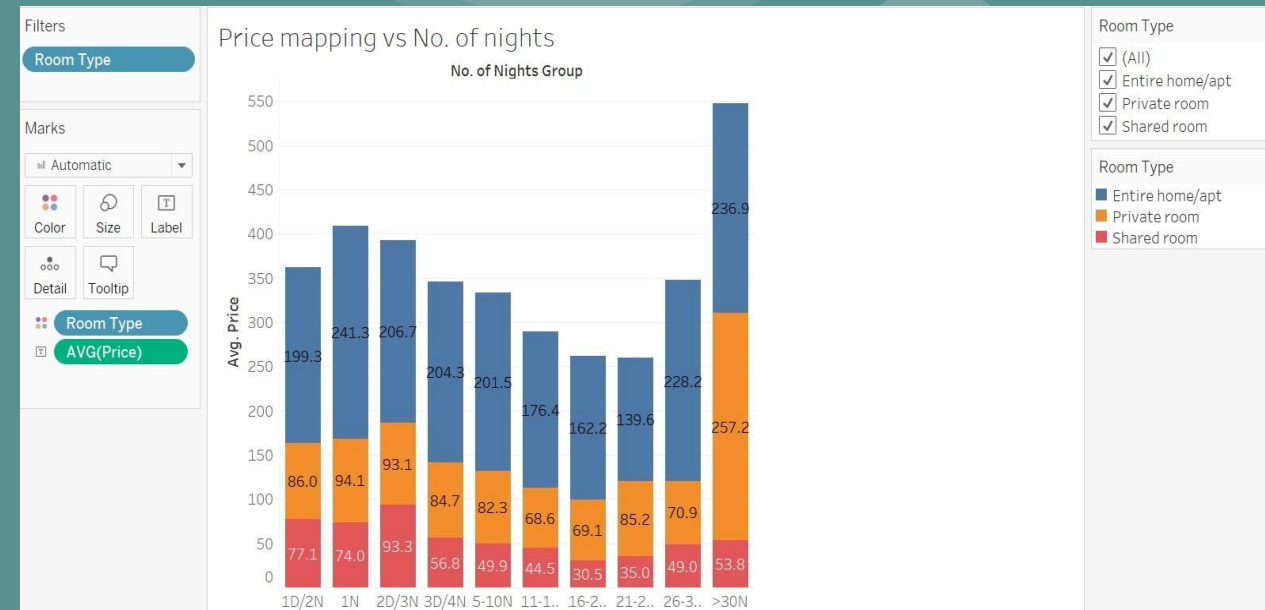
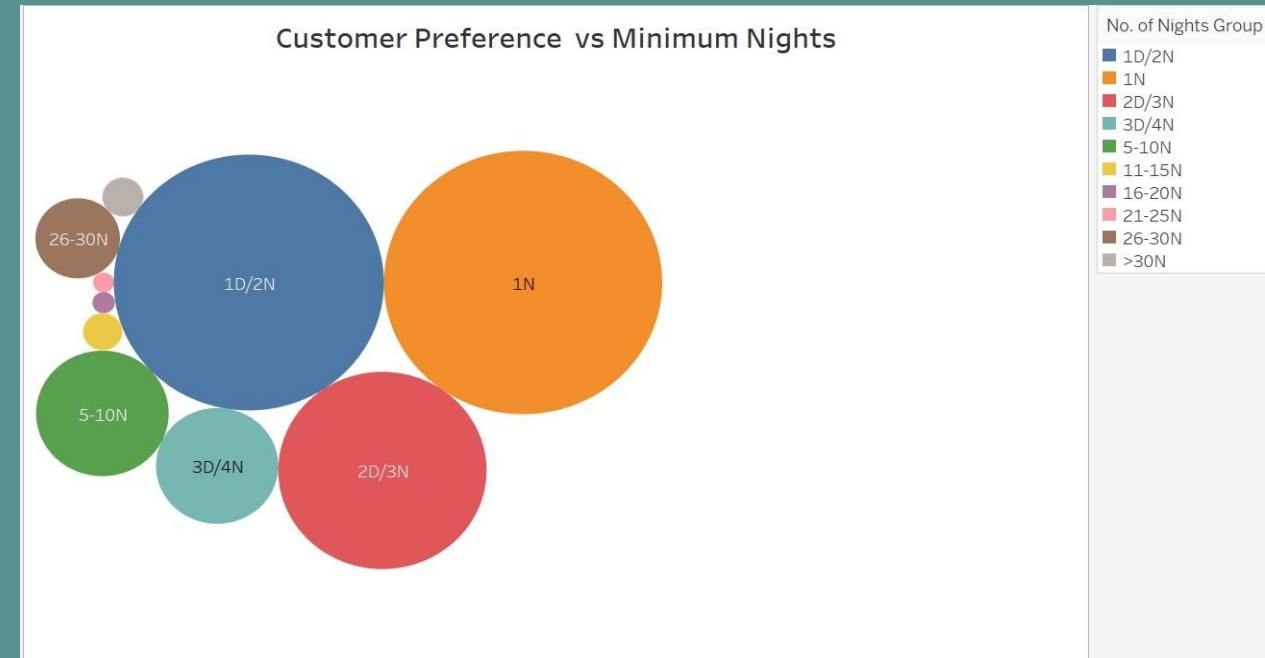
Average Property price & Count in Neighbourhood

- ▶ Brooklyn and Manhattan have the highest booking among all the neighborhood group and are the most popular districts.
- ▶ Bedford & Williamsburg in Brooklyn, and Harlem in Manhattan has the highest bookings in the year 2019.
- ▶ Properties in Manhattan generates higher revenue for the host with lower bookings.



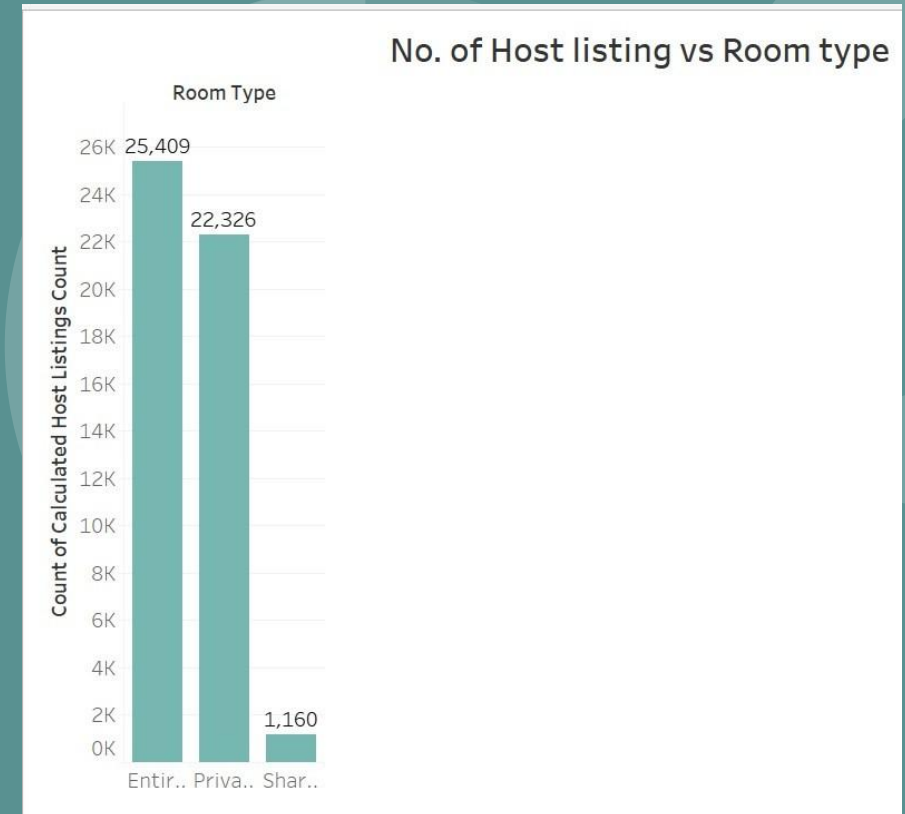
Customer Preference on Price & Min. Nights

- Most no: of bookings are made for minimum night stay for 1,2,3 and 30 days.
- Interestingly, those who booked for Private Room and Entire home got the maximum revenue for minimum stay 1 night.
- Overall we should focus more on properties having 1,2,3 and 30 minimum night stay.



Types of Property Count & Price Range

- Most no: of bookings are for entire home/apts across all the locations.
- The second highest no: of bookings are for are of private rooms across all neighborhoods.
- Private rooms has the highest price among all the room types in the price range.



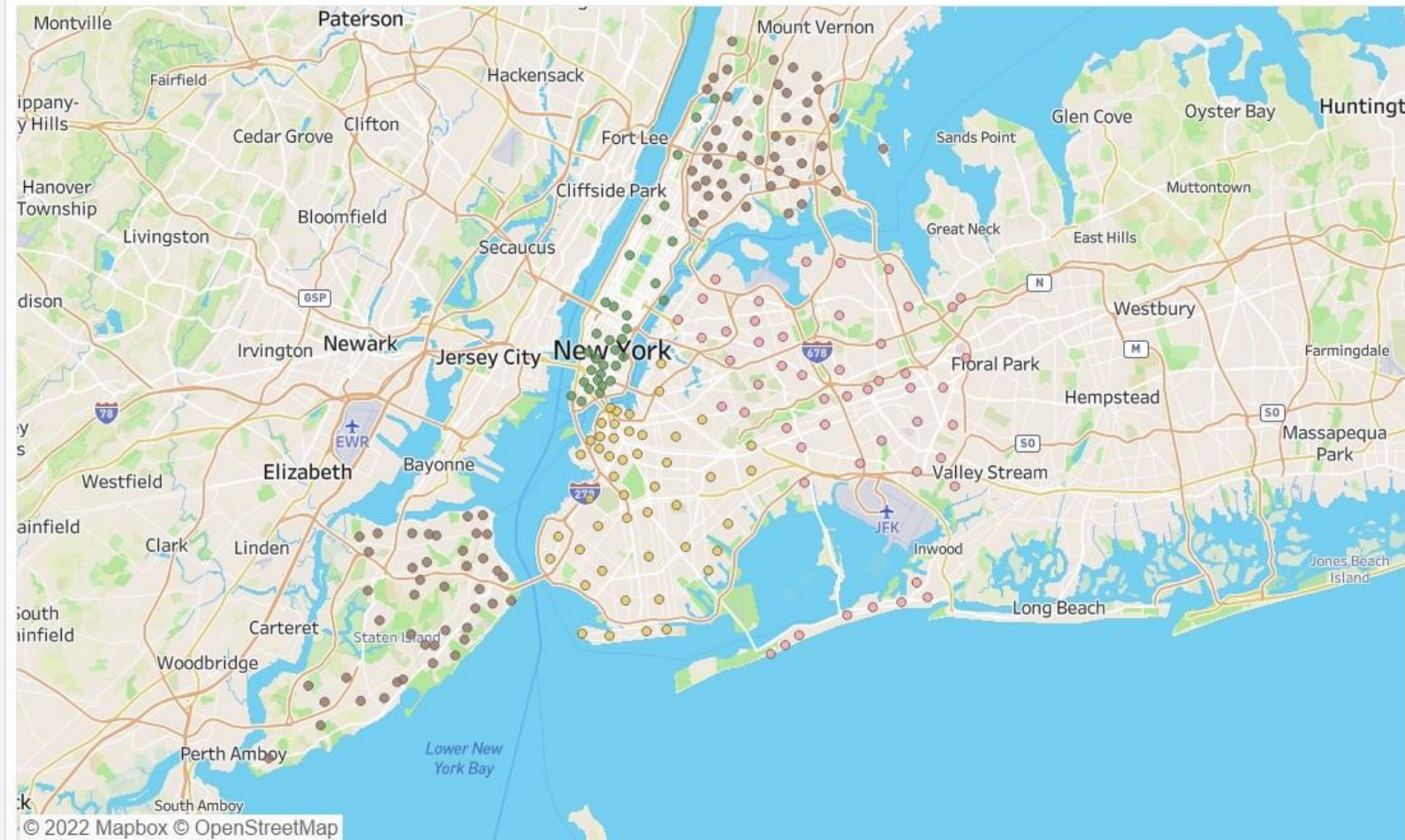
Price Range vs Room Type

Room Type	Price Bucket				
	Budget..	High	Low	Medium	Very Hi..
Entire home/apt	117	4,569	10,220	9,453	1,050
Private room	4,291	399	16,201	1,261	174
Shared room	619	23	462	45	11

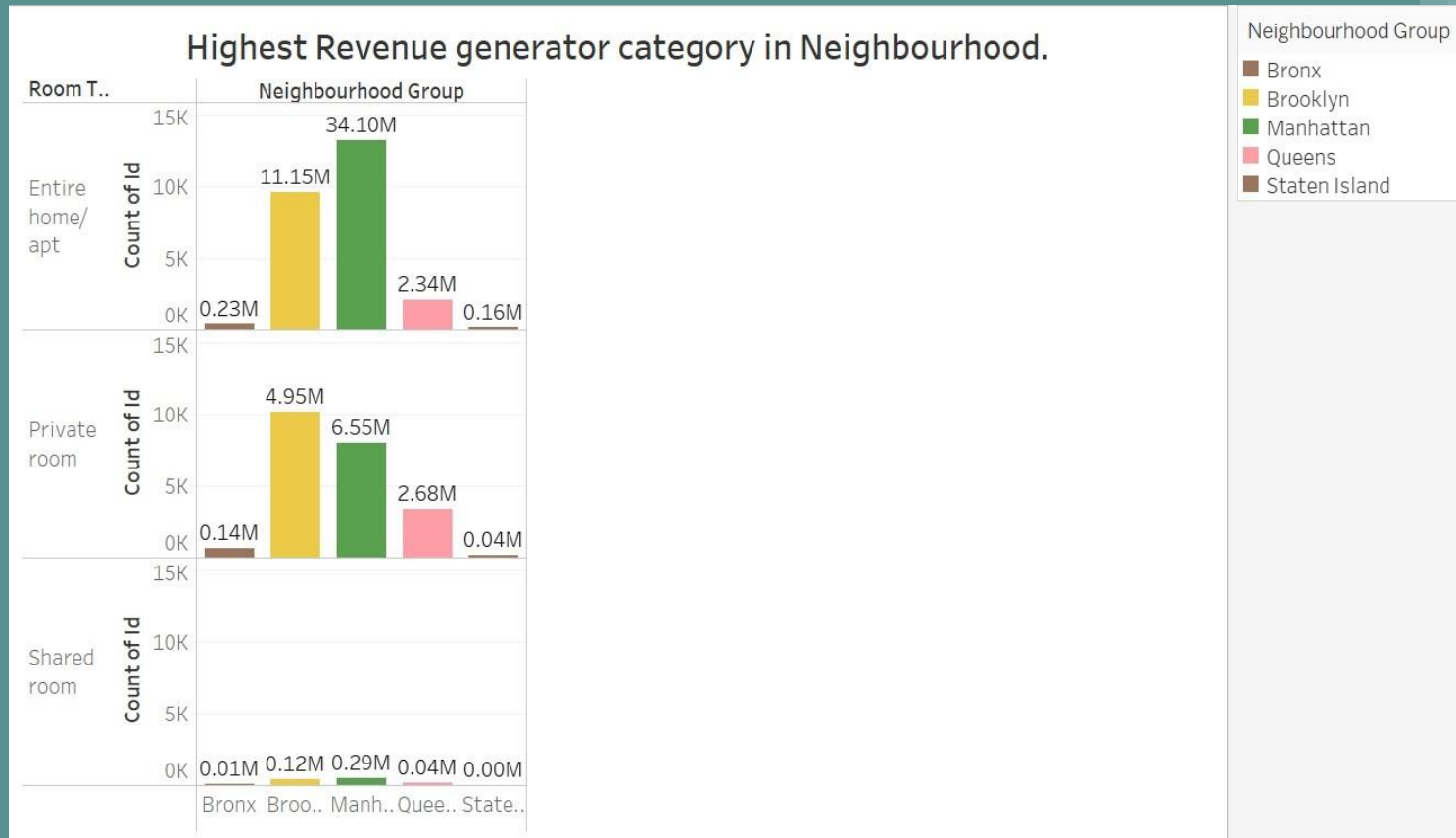
Property Distribution map with Avg. Price

- Manhattan and Brooklyn at an average, price is medium to high ranges compared to Bronx and Queens.
- In Staten Island we see the median price is higher in some areas like Woodrow and FortWadsworth than other regions like Manhattan and Brooklyn.

Property Distrubution in map



Highest revenue among various room types



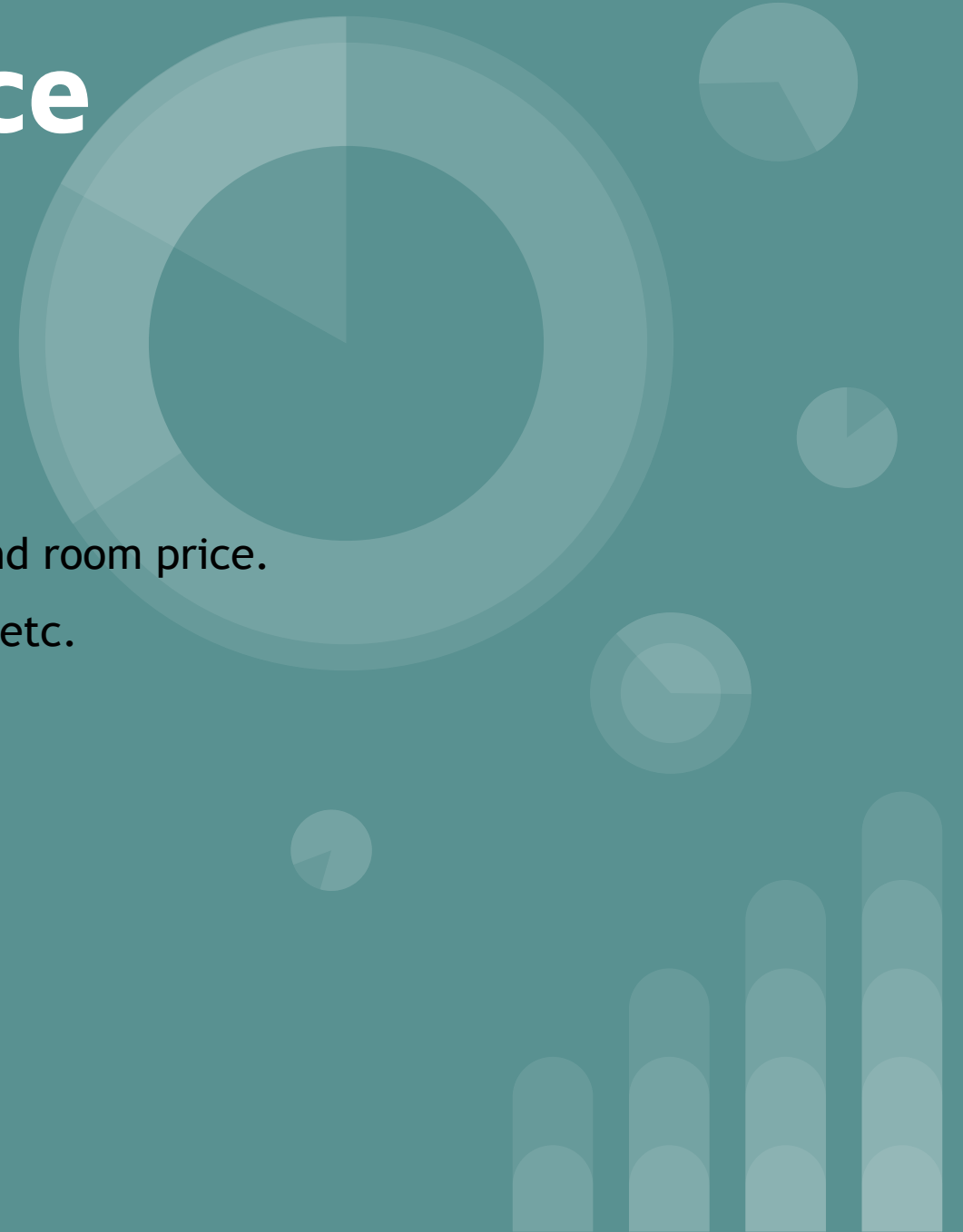
- The highest revenue is generated by customer choosing the entire home/apt at Manhattan.
- Secondly, Brooklyn scores the highest for the private room among all other room type.

Recommendations

- ▶ Focus on Hosts which provide stays for shorter than a week or a month.
- ▶ Acquire more Entire Home/apt and Private room hosts than shared rooms as they are in demand to maximise the revenue.
- ▶ Focus more on those areas i.e Manhattan and Brooklyn where the revenue generation is pretty high compared to other neighborhood which are popular among the customers.

Appendix – Data Source

- ▶ Data Source: NYC Airbnb Data set provided
- ▶ Here is some brief details provided in the data dictionary:
- ▶ neighborhood, latitude, and longitude.
- ▶ Room information such as type, minimum nights stayed, and room price.
- ▶ Customer info such as the number of reviews, last review, etc.



Appendix: Data Assumptions



- ▶ We assumed the data prior to the COVID - 19 period was achieving the desired revenue.
- ▶ The company's strategies are decided considering the travel will be increased in the post COVID period.

Appendix: Data Methodology

- ▶ We used tools such as Python Jupiter Notebook mainly to perform various Data cleaning and transforming the data set.
- ▶ Exploratory Data Analysis
- ▶ Used Tableau for the data visualization for deeper analysis.
- ▶ The methodology doc file has been attached for the whole data cleaning, data preparation, data visualization.

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