

# **Airbnb Data Analysis**

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# Agenda

- Objective
- Background
- Key Findings
- Appendix:
  - Data Methodology
  - Data Assumptions

# Objective

- Improve strategies to review the business in the post covid period.
- Understand customer preferences and user experience trends for Airbnb NYC business.
- Provide early recommendations for new acquisitions and improving customer experience.

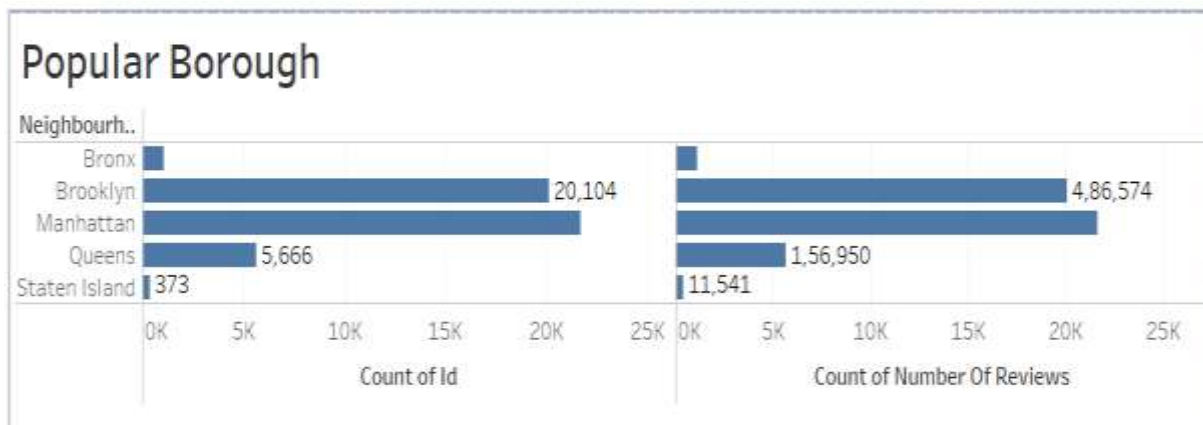
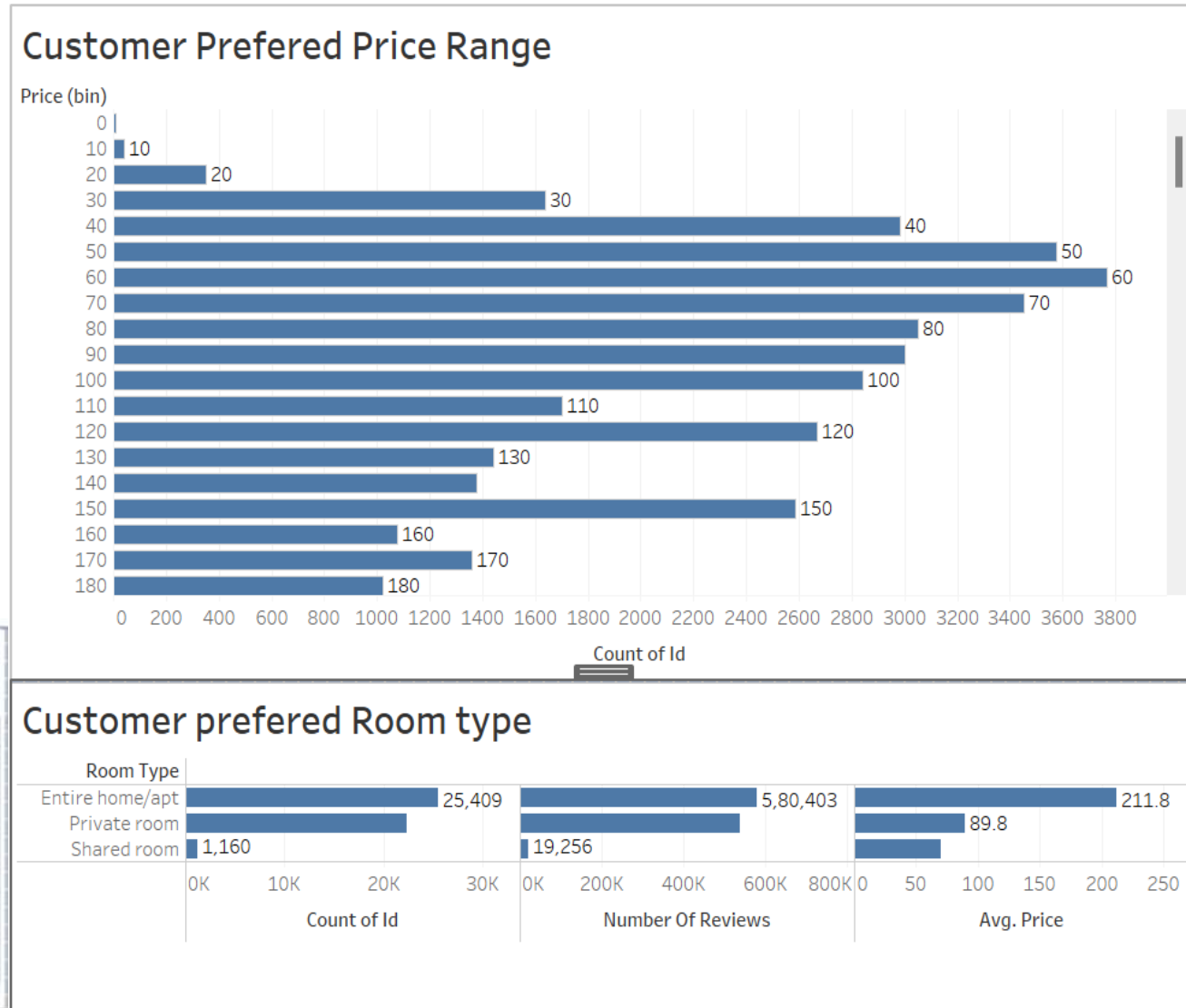
# Background

- The COVID-19 pandemic affected Airbnb business due to travel restrictions.
- The revenue took the largest hit in NYC in the Q2 of 2020.
- Now that the travel restrictions are lifted, the business should be operated to recover the loss.

# Key findings

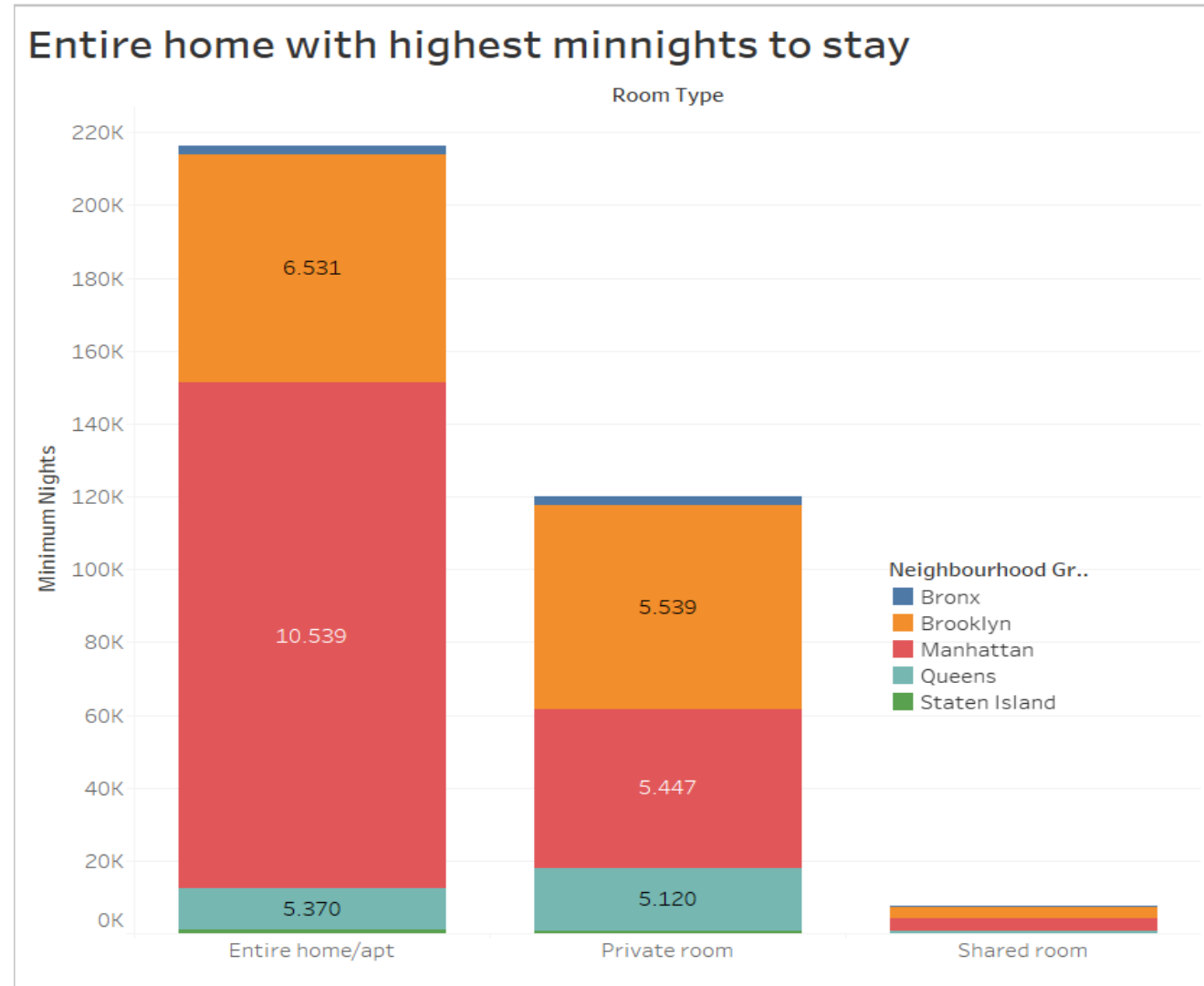
# 1.Customer Preferences

- **Low to medium prices** ranging from **60\$-150\$** preferred by customers.
- **Entire home/Apt.** highly preferred by customers on basis of **price, number of reviews** and **listings**. Followed by **Pvt rooms**.
- **Manhattan** being most popular borough followed by **Brooklyn** for highest bookings and number of reviews.



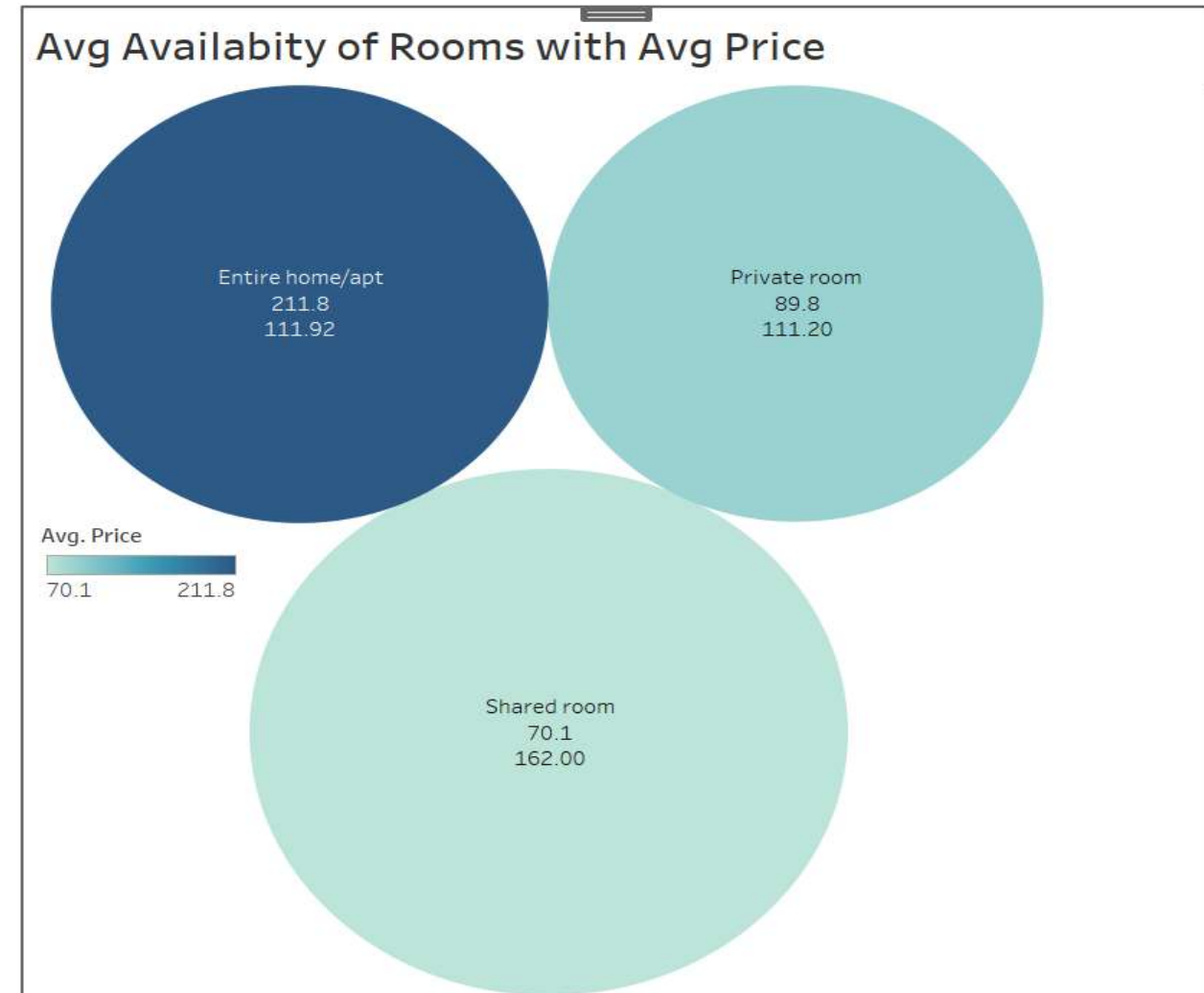
## 2. Entire homes with highest minimum nights to stay

- **Entire home/apt** types are preferred more by the customers followed by **Private rooms** as they are available for a higher number of minimum night's stay.
- **Manhattan** consists of maximum **Entire homes** and **private rooms** with highest min nights to stay.
- **Brooklyn** has second most **Entire homes** and **private rooms** with largest min nights to stay.



### 3. Entire Home available for average 100 days

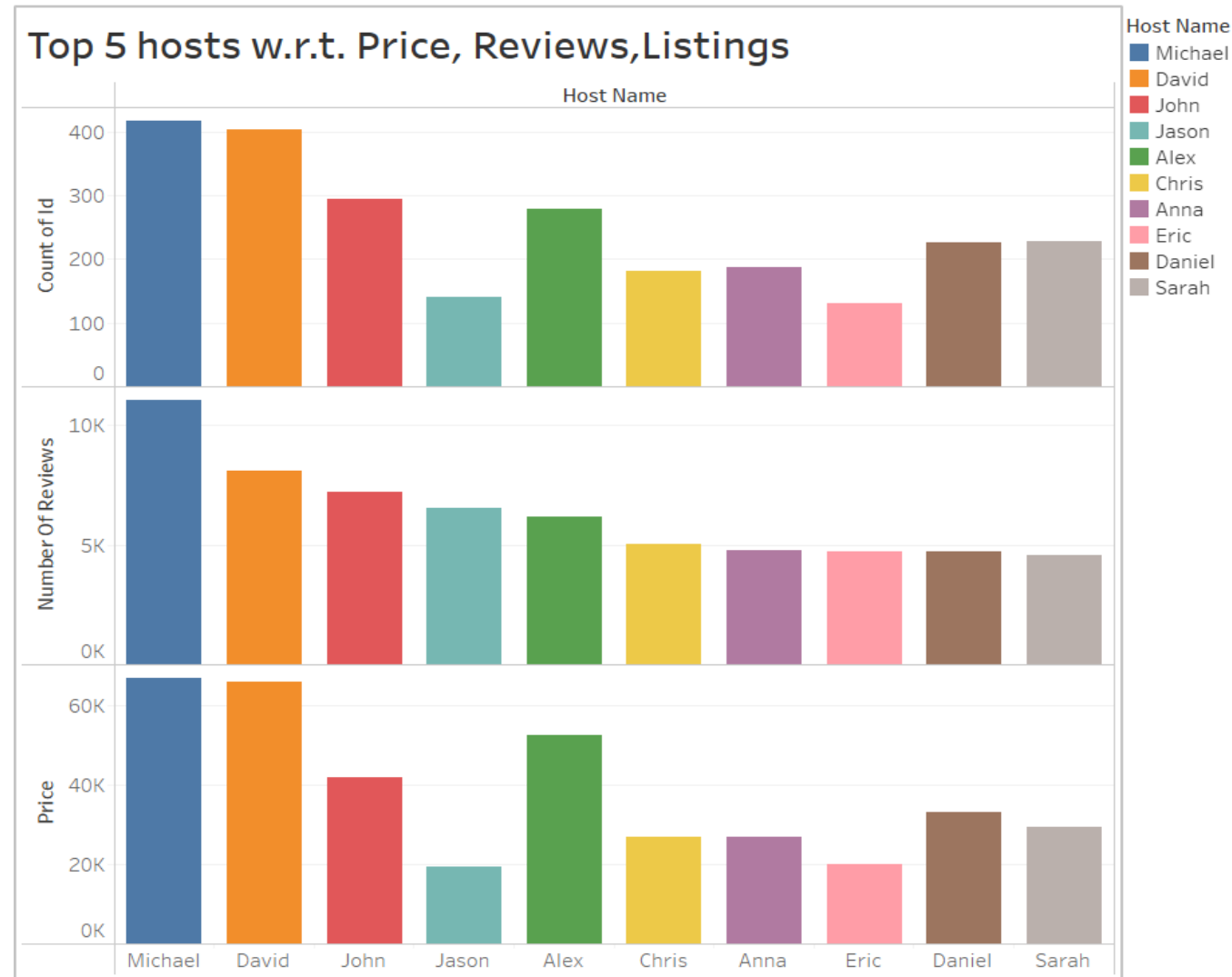
- Having a **high price** range with **average price 211\$**, **Entire home/apt** types of rooms are available for **112 days**.
- **Private rooms** available for average of **111 days** with **low average price 90\$**
- **Shared rooms** around **162 days** on average being available with the lowest in **average price 70\$** .





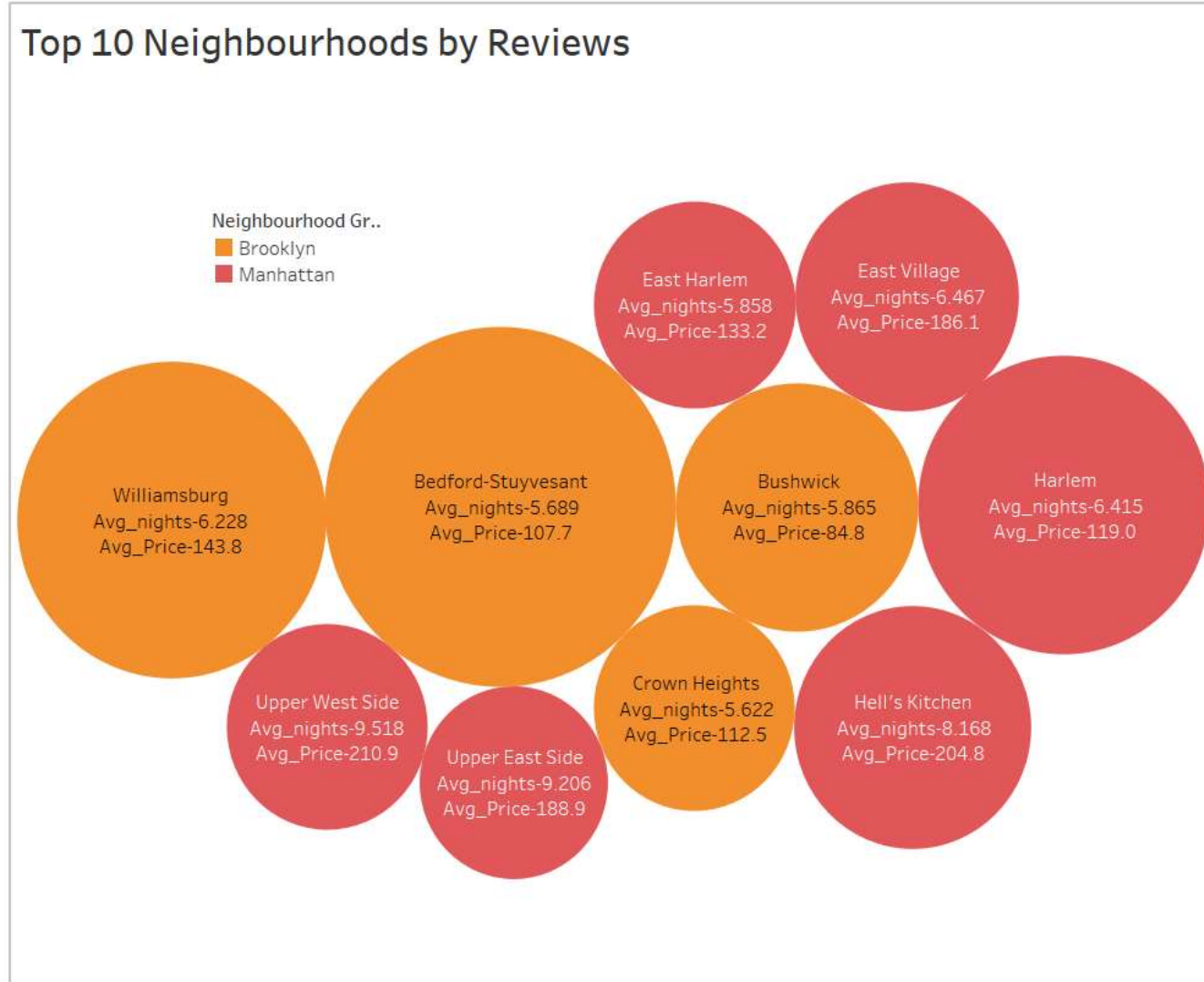
## 4.Top 5 Hosts based on Price, Reviews, &Listings

- **Michael** is the topmost hosts receives highest reviews for his listed sites with high price range.
- **David, Alex, John,** and **Daniel** are the next 4 topmost hosts followed by Michael.
- We can have one on conversation with hosts to get unpopular properties more traction.



## 5. Top 10 Neighborhoods by Reviews

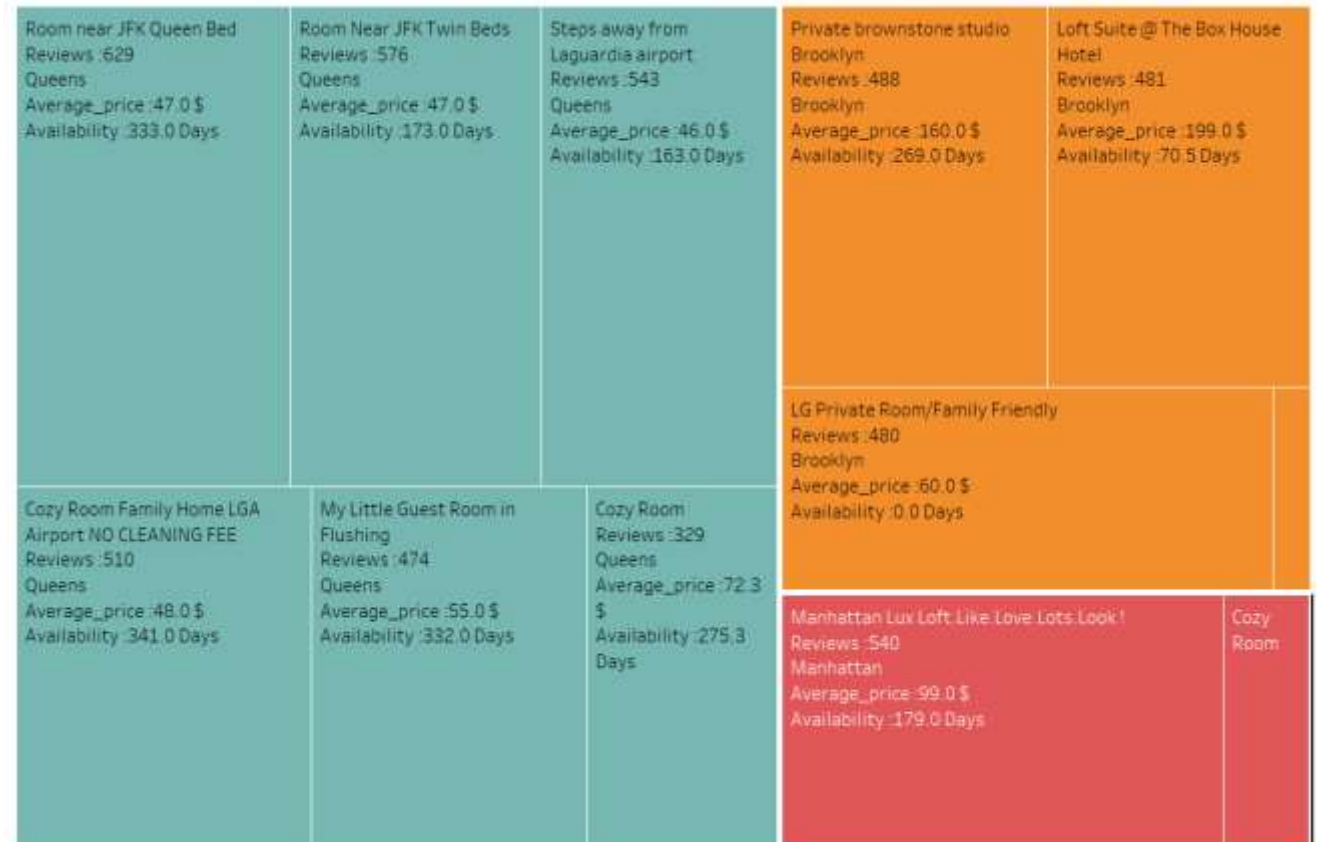
- **Bedford-Stuyvesant, Williamsburg, Bushwick, Harlem and Crown heights** are **5 topmost neighborhoods** by reviews.
- **Top 10** neighborhoods belongs to **Manhattan** and **Brooklyn**.
- **Average price** offered ranges **110 -210 \$** with **5-10 days** of **average min nights stay**



## 6. Top 10 Properties by Reviews

- **Rooms near JFK Queen Bed, Cozy Room family home LGA, Steps away from LaGuardia airport, Cozy Rooms, Private brownstone studio** are top 5 properties by reviews.
- **Top 10** properties belongs to **Queens** and **Brooklyn**.
- **Low Average price** offered by **Queens** properties with availability **300+** days.

Queens properties acquires greatest Review



# Appendix-data methodology

We conducted thorough analysis of Airbnb data. The process includes:

- Data cleaning for missing values
- Using EDA finding customer preferences based on
  - Area
  - Price
  - Types of Properties
  - Number of listing
  - Minimum number of nights

# Appendix-data assumptions

We assume that:

- Data prior to COVID -19 period was achieving desired revenue.
- Company does not want to expand to new territories.

**Thank You**