

Airbnb NYC Data Analysis Project



We Will Present The following:

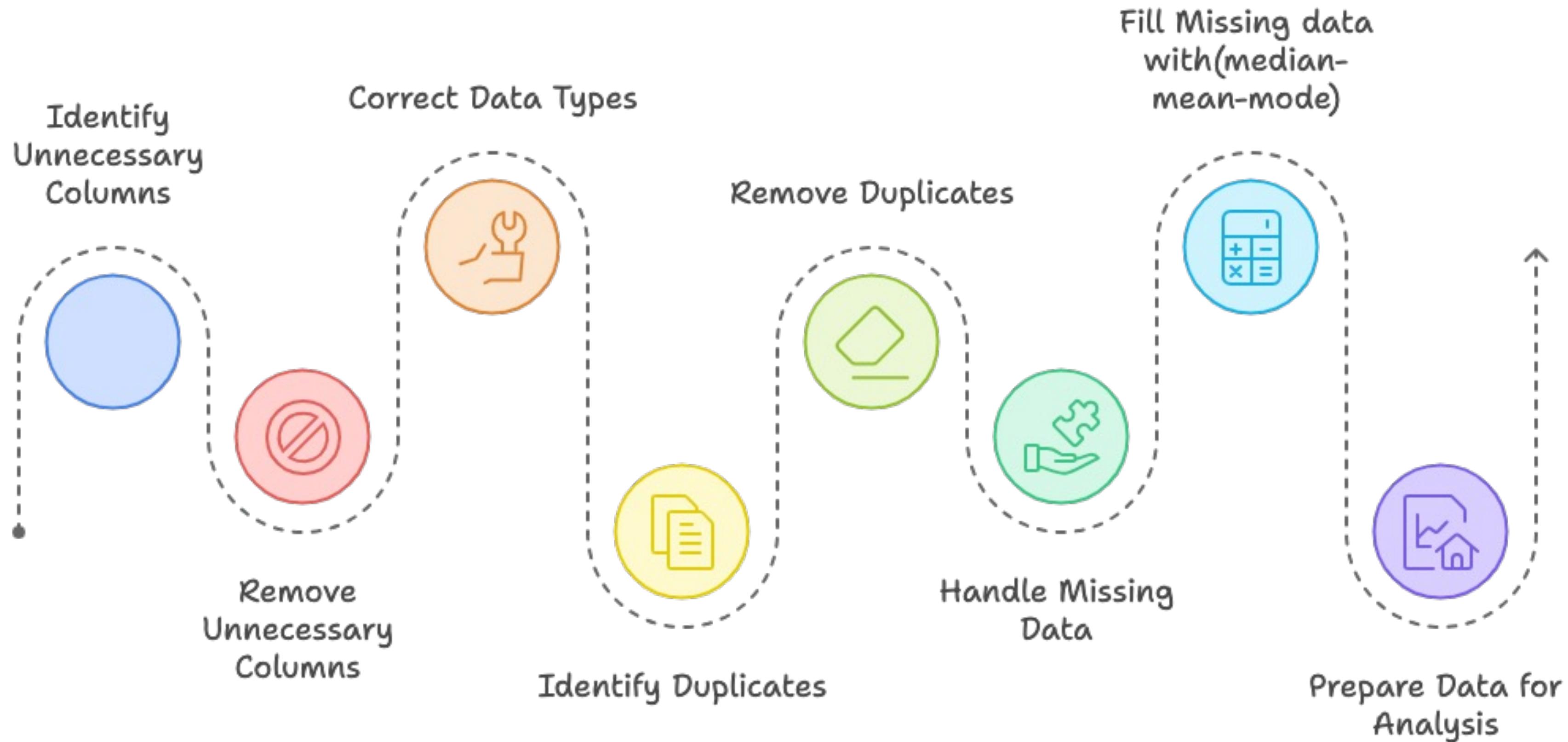
cleaning and
preprocessing

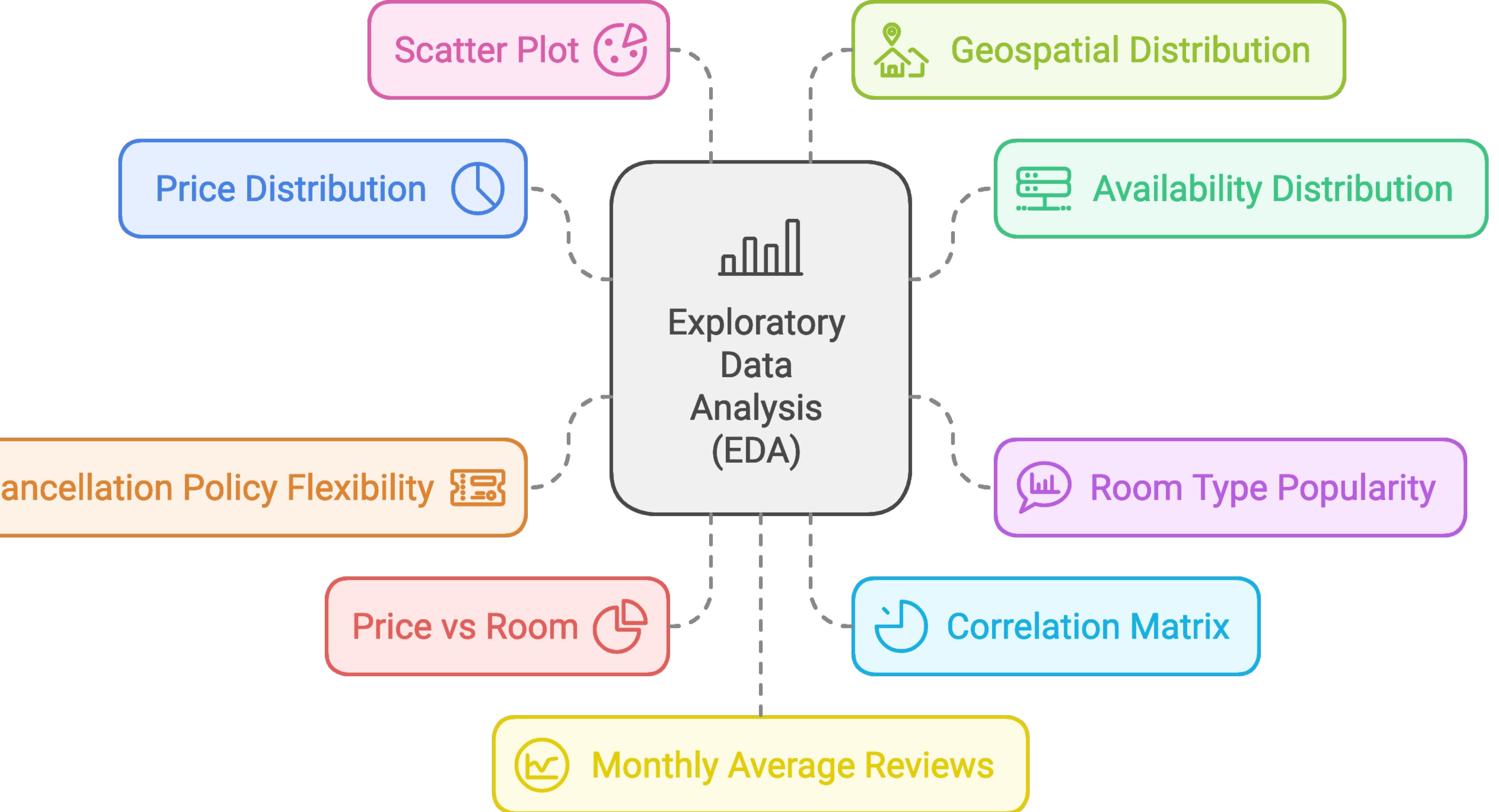
Exploratory
Data
Analysis

Dashboard
Visualization

Insights

Data Cleaning and Transformation Process

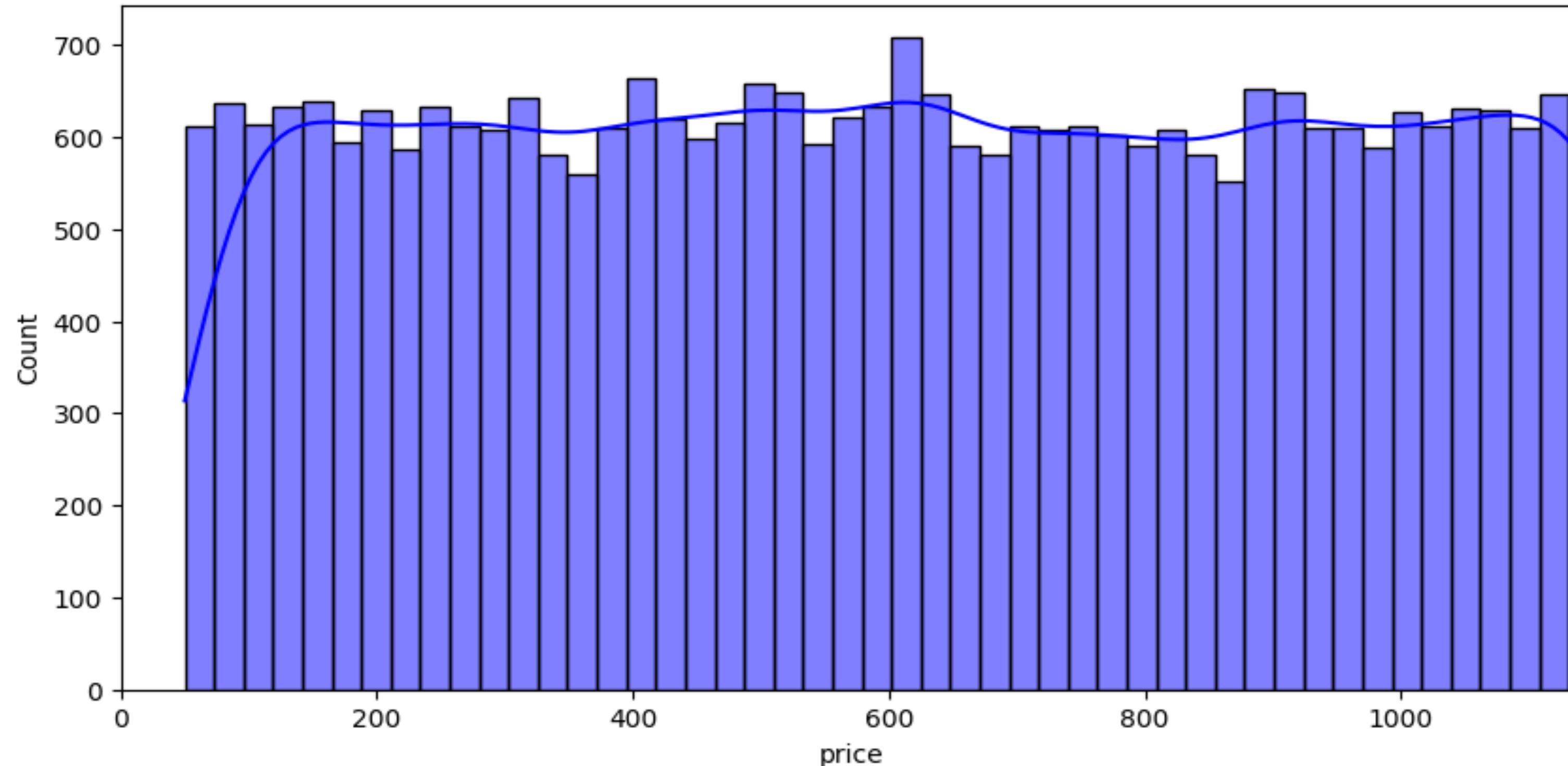




Price Distribution



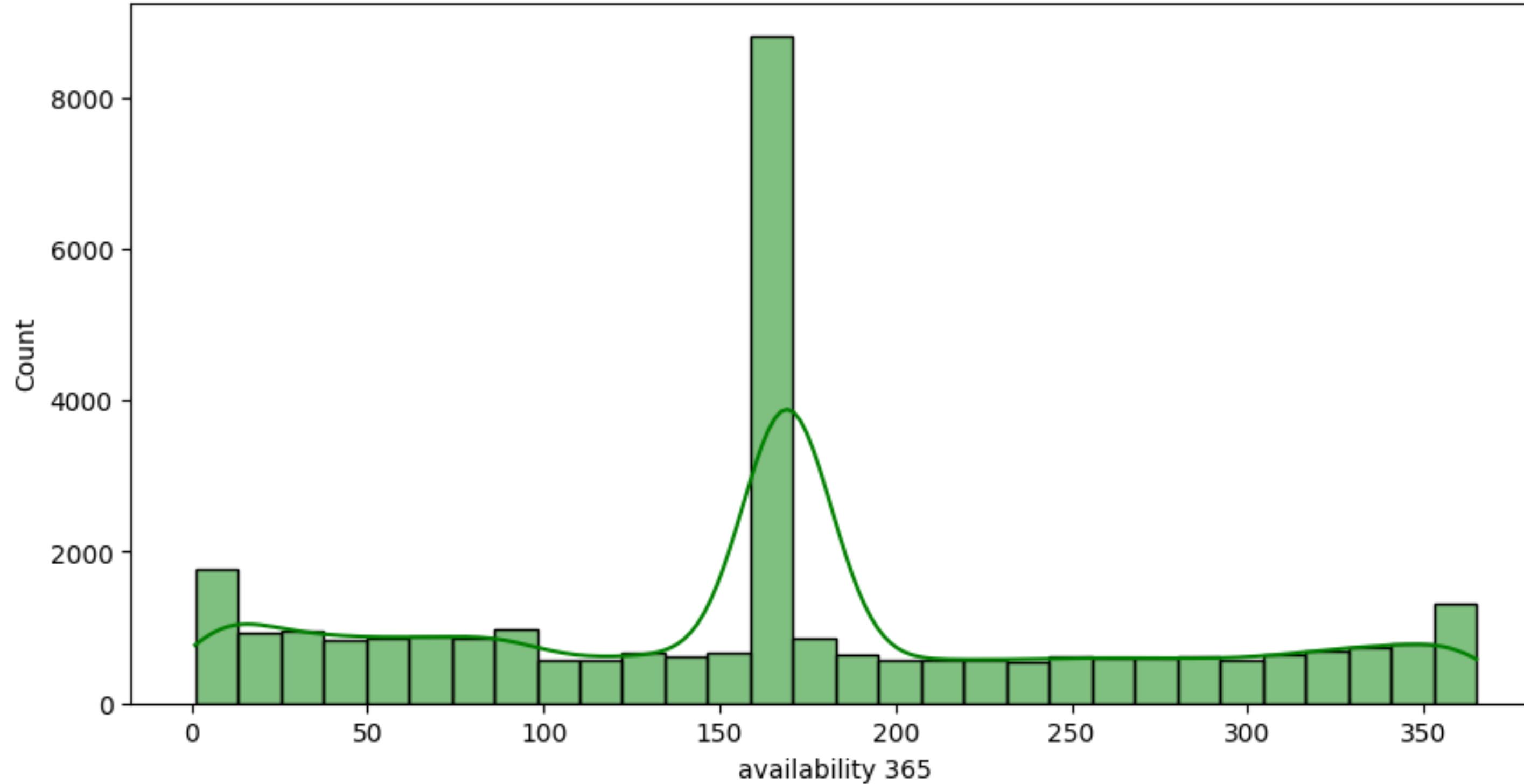
Price Distribution



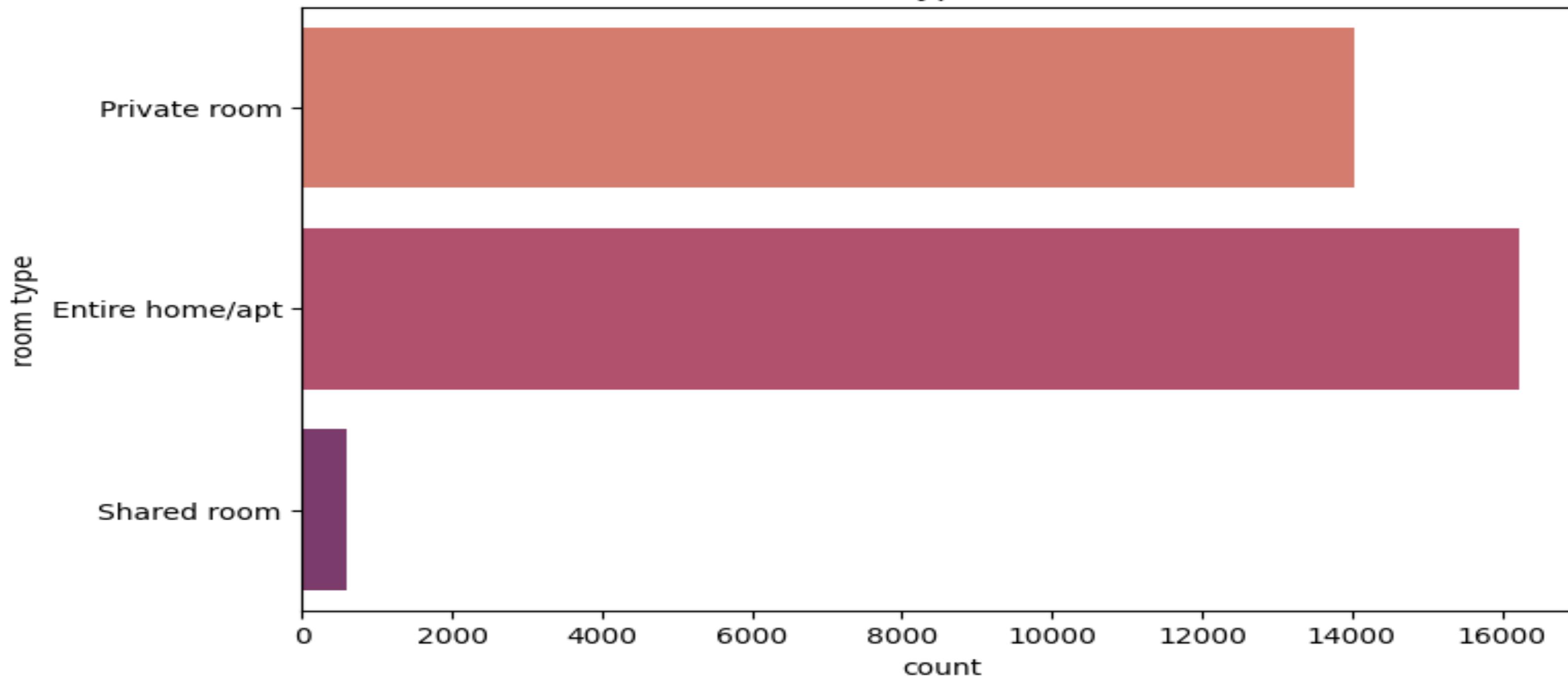


Availability Distribution

Availability (365 Days) Distribution

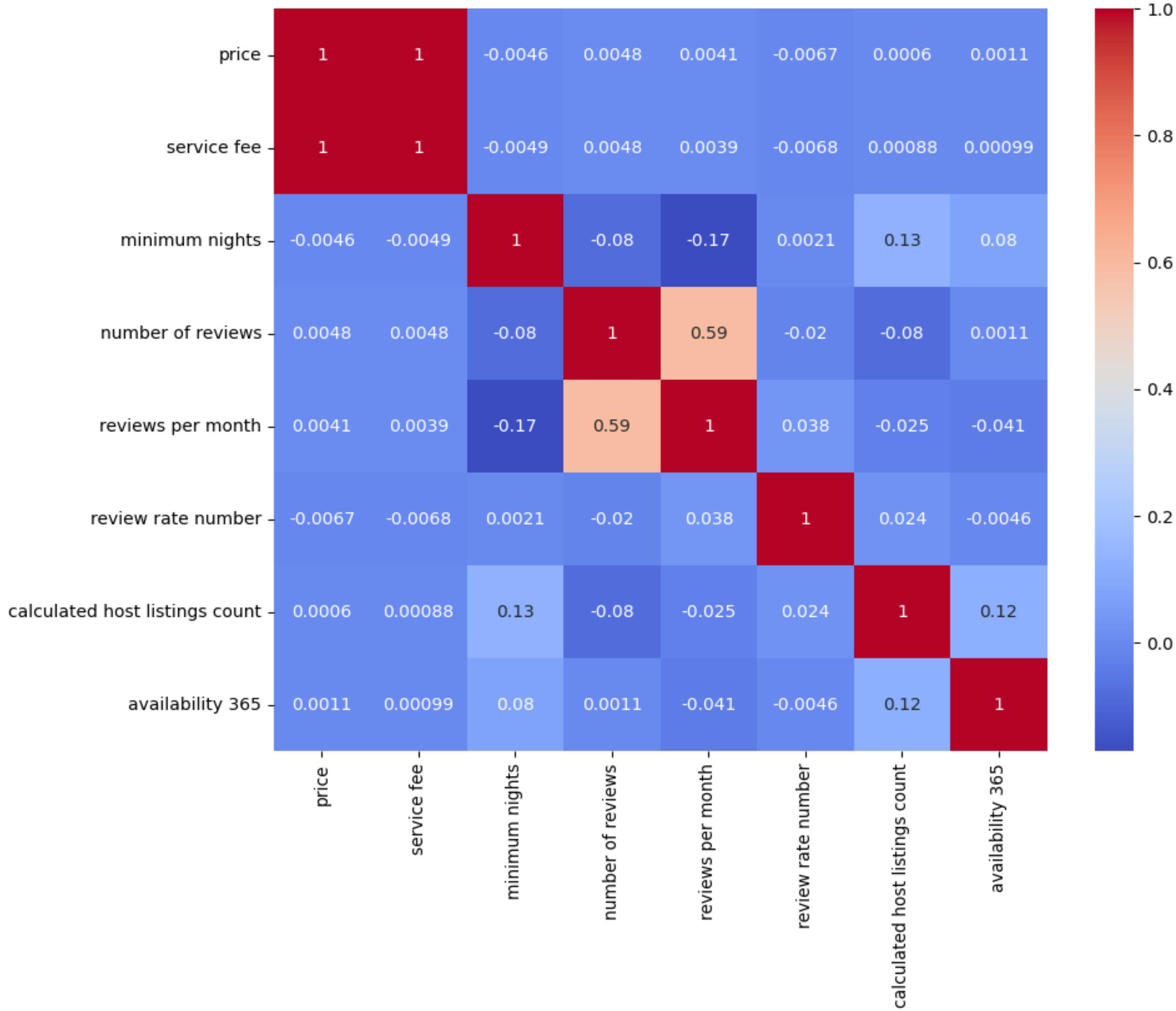


Room Type Count



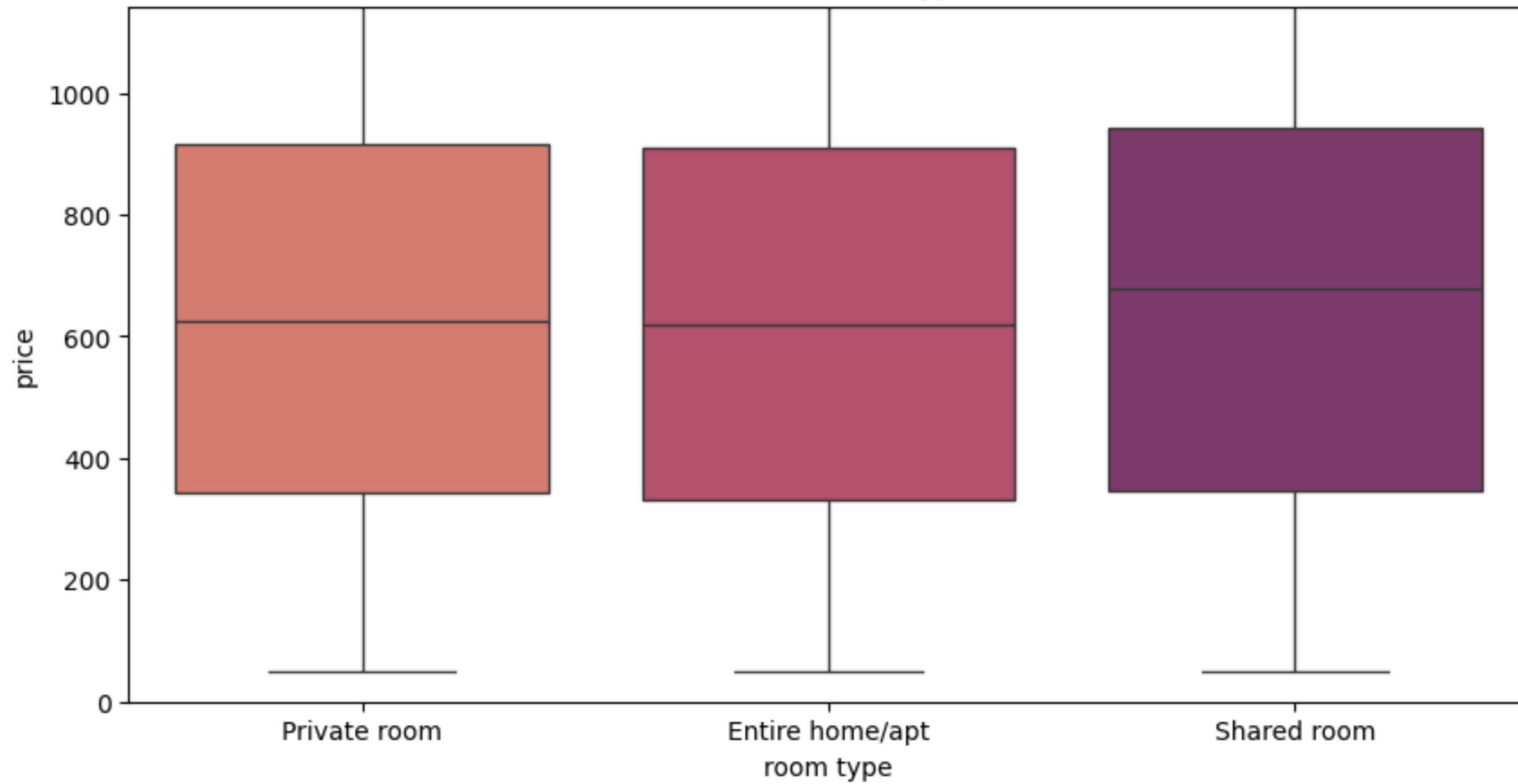
Room Type Popularity

Correlation Matrix



Correlation Matrix

Price vs Room Type

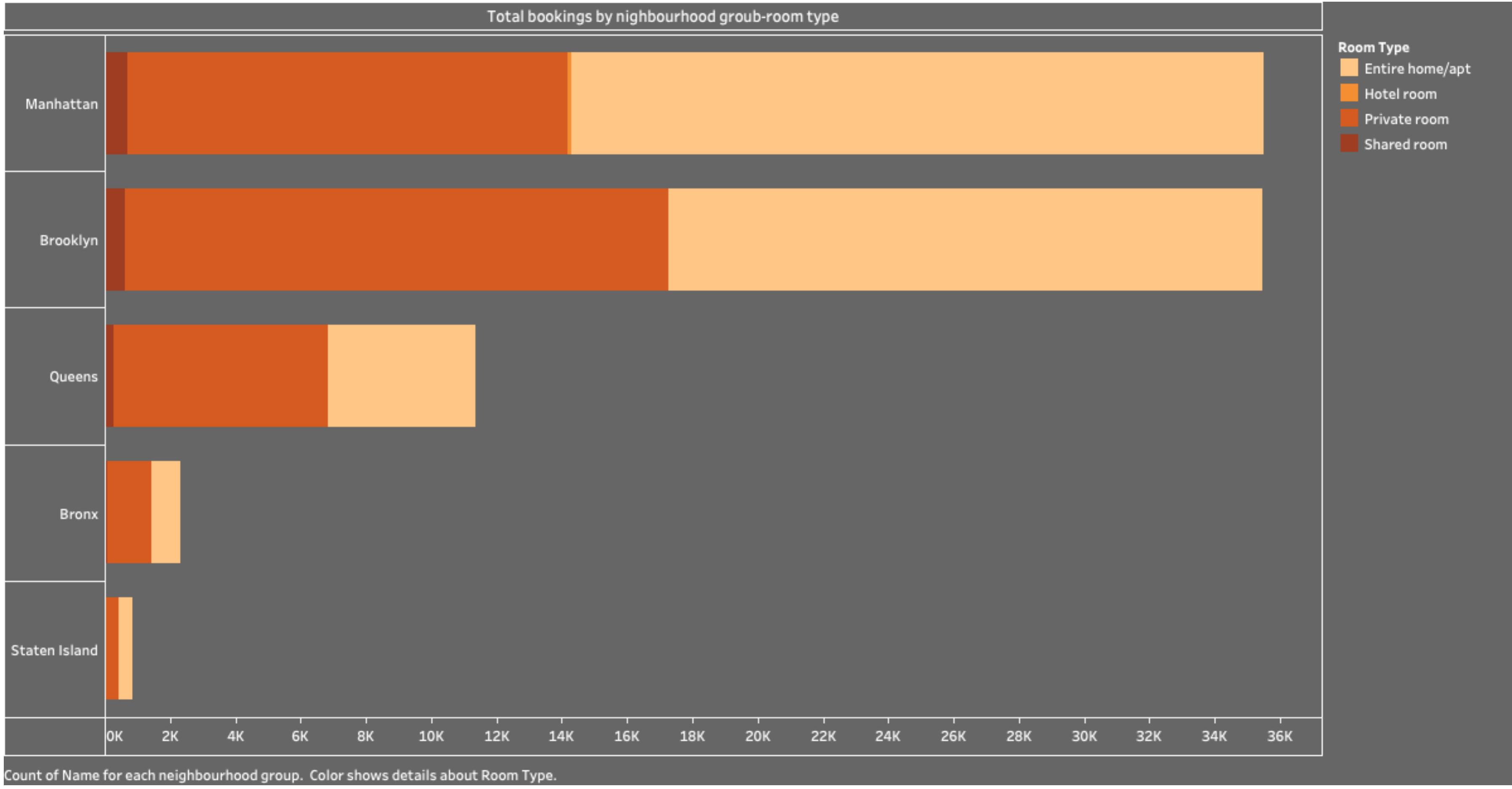


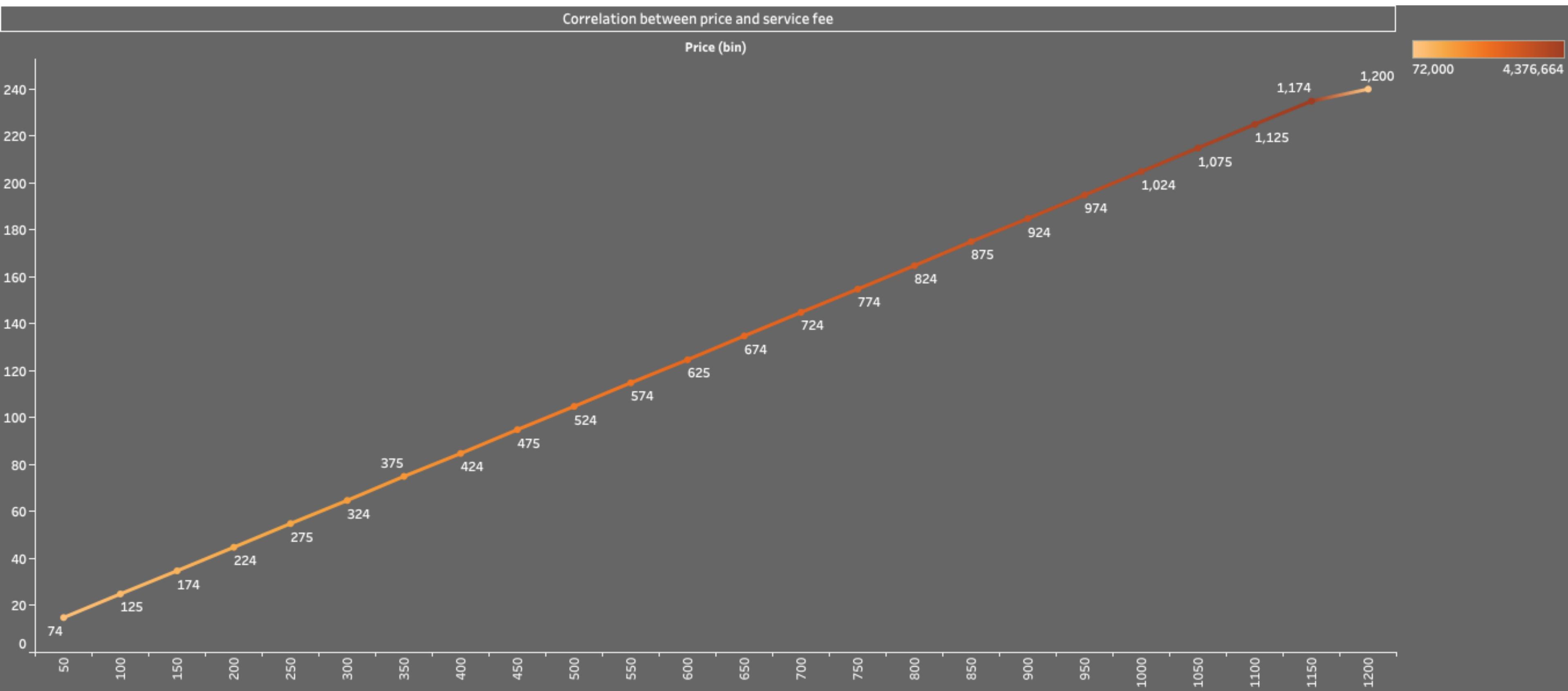
Price vs Room 

Dashboard Visualization



Total bookings by neighbourhood group-room type

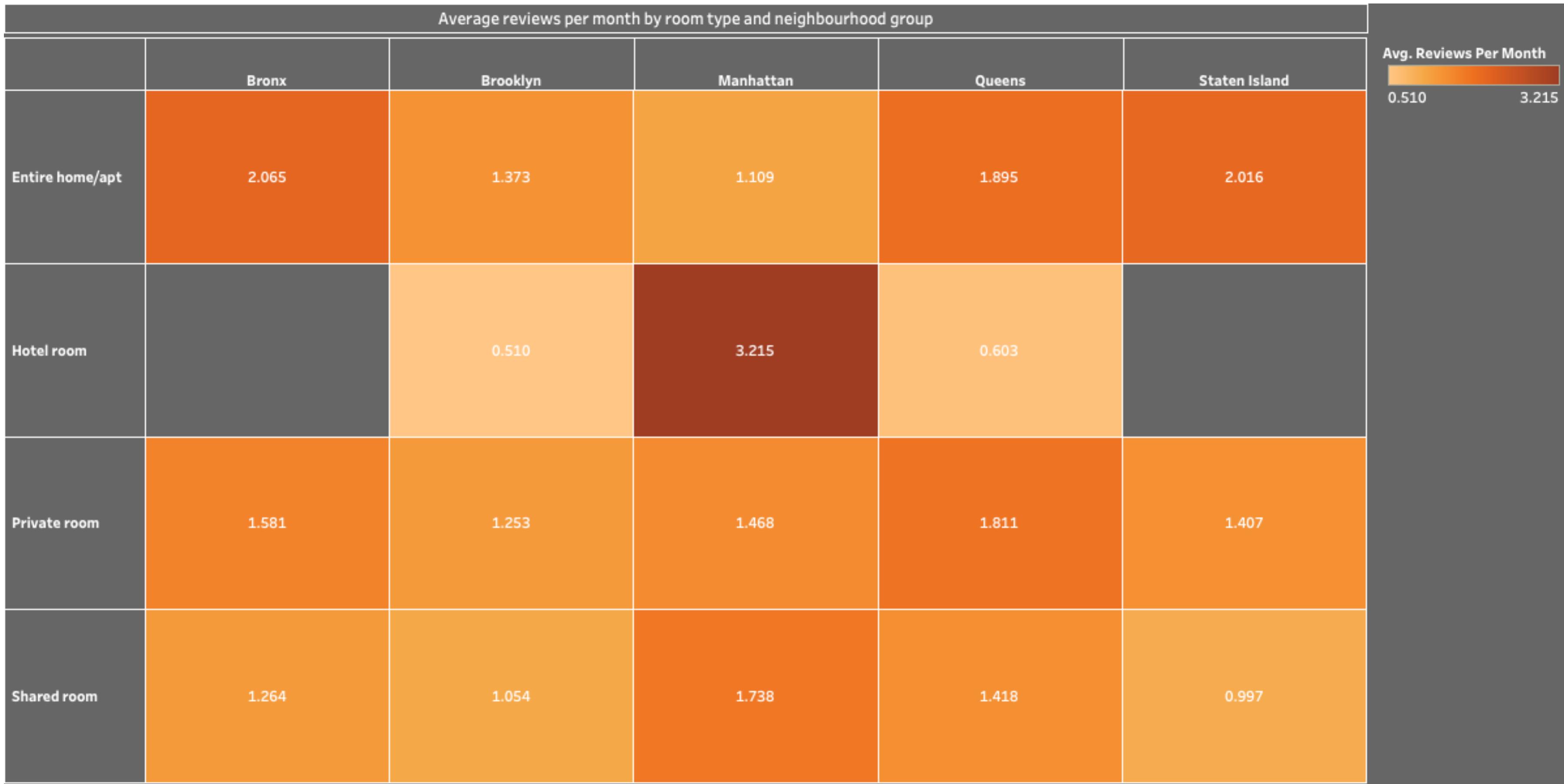






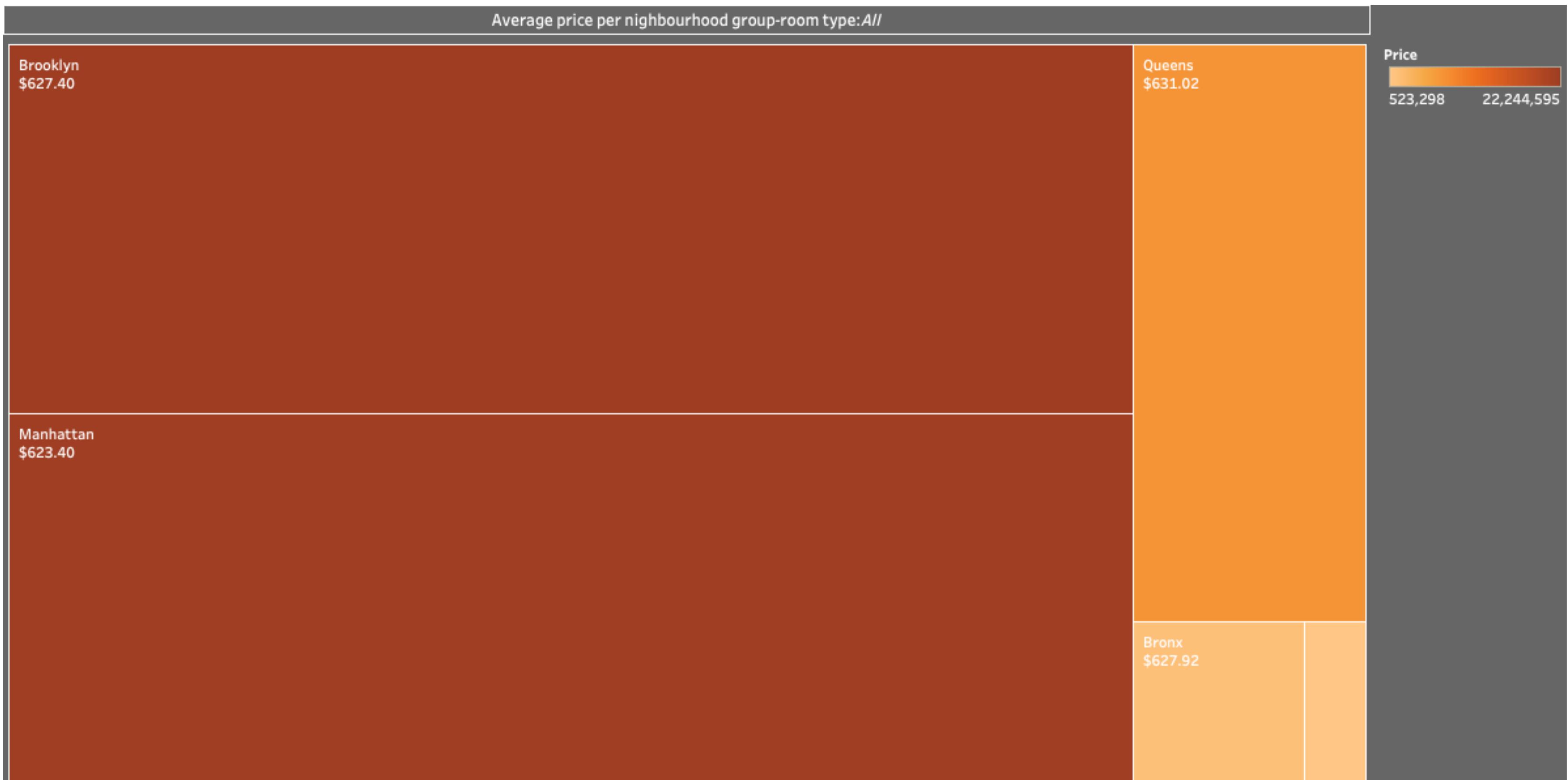
Sum of Number Of Reviews for each average of Price broken down by Host Name, neighbourhood group and Neighbourhood. The marks are labeled by sum of Number Of Reviews. Details are shown for Host Id. The view is filtered on Host Id, which keeps 10 of 85,492 members.

Average reviews per month by room type and neighbourhood group



Average of Reviews Per Month broken down by neighbourhood group vs. Room Type. Color shows average of Reviews Per Month. The marks are labeled by average of Reviews Per Month.

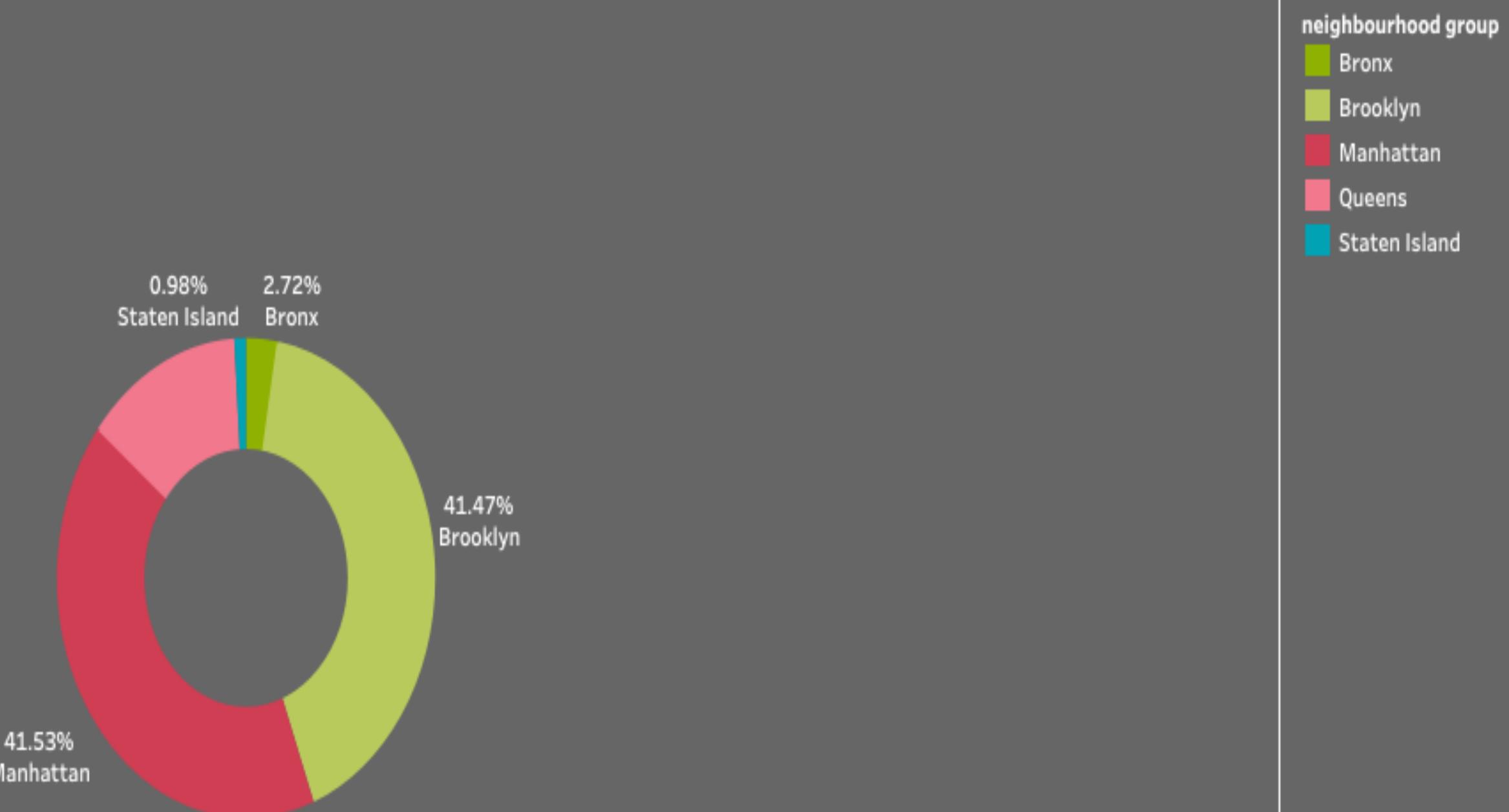
Average price per neighbourhood group-room type:All



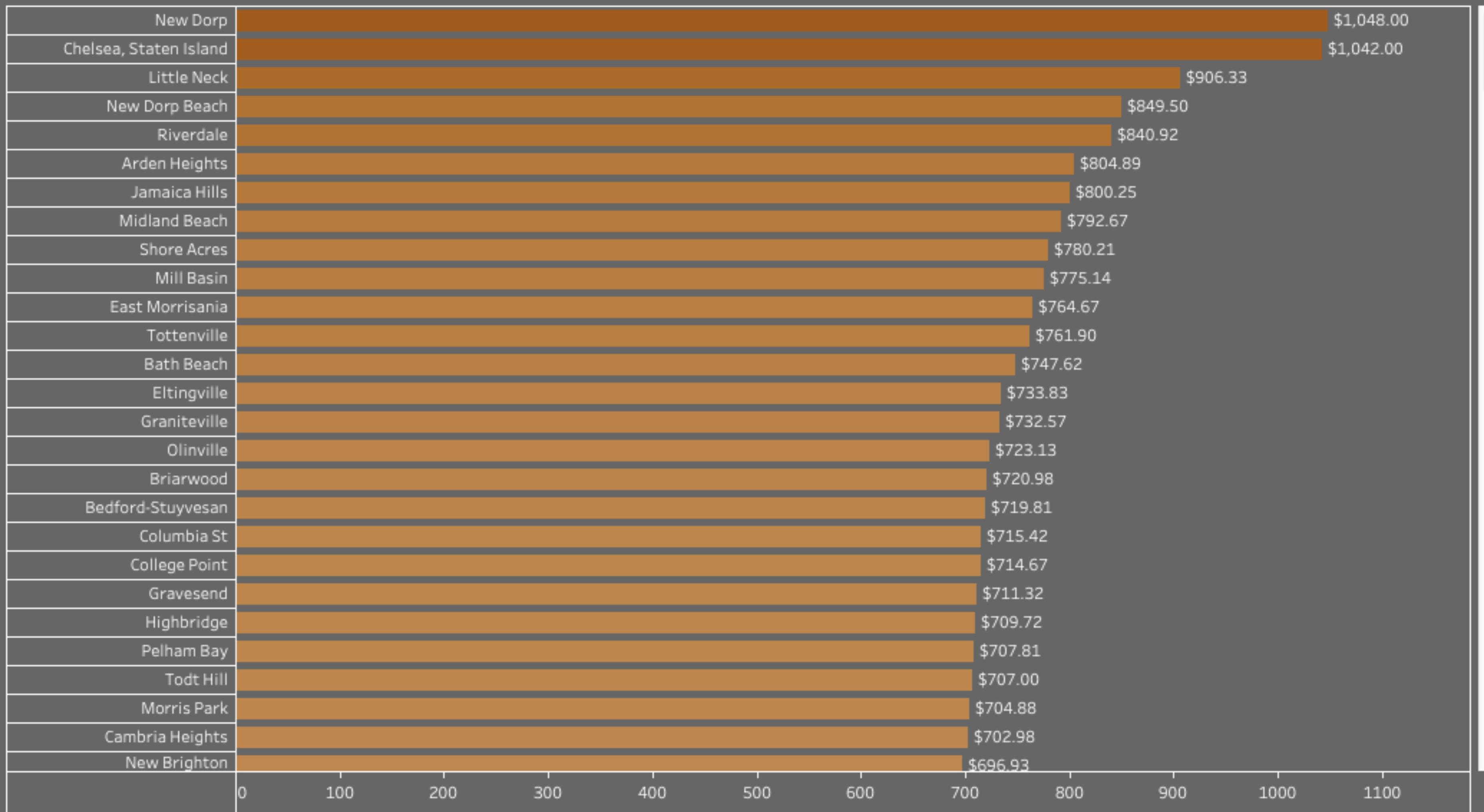
Neighbourhood group and average of Price. Color shows sum of Price. Size shows sum of Price. The marks are labeled by neighbourhood group and average of Price. The data is filtered on Room Type, which keeps Entire home/apt, Hotel room, Private room and Shared room.

Total neighbourhoods by neighbourhood group

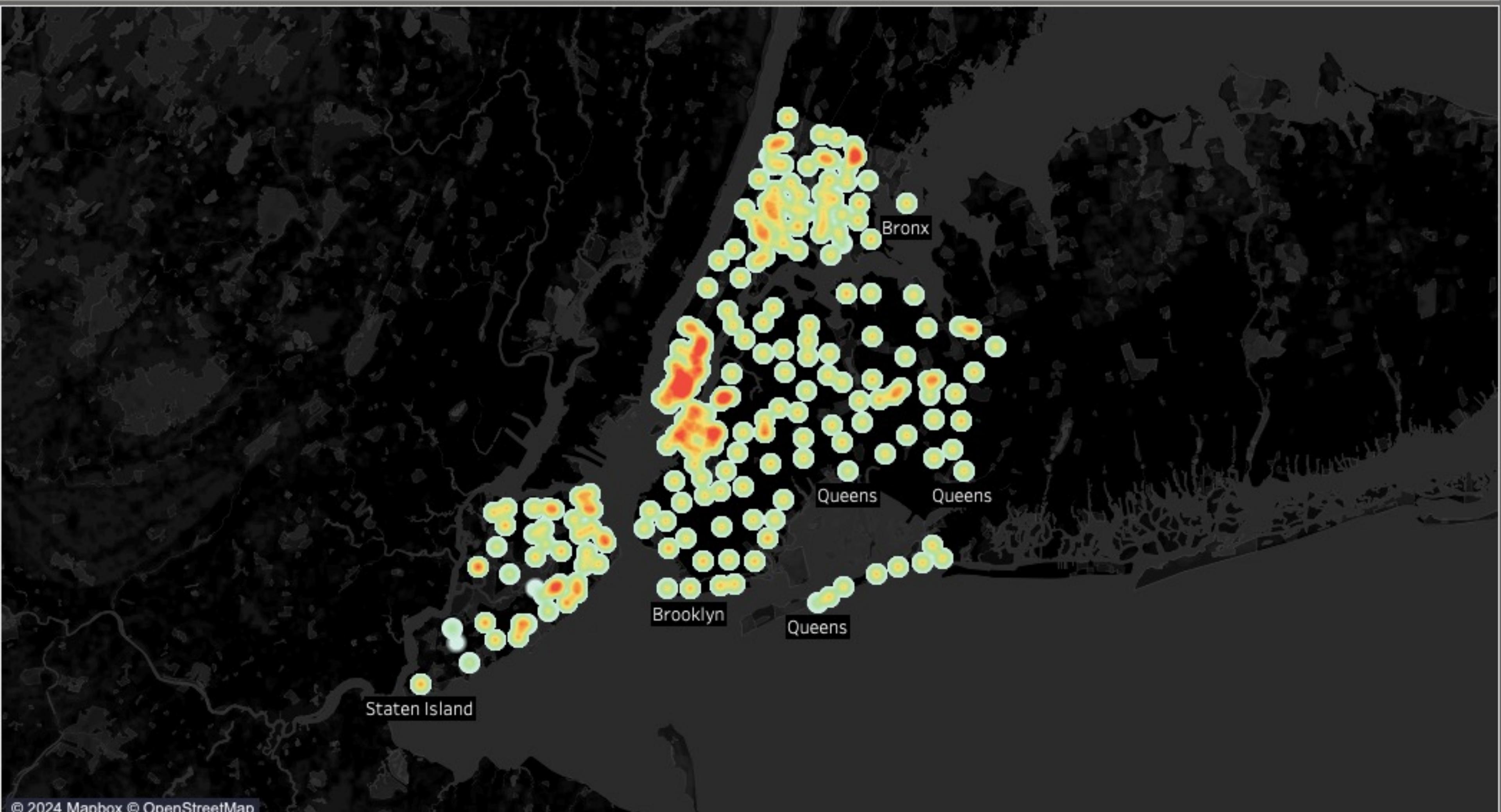
85,492

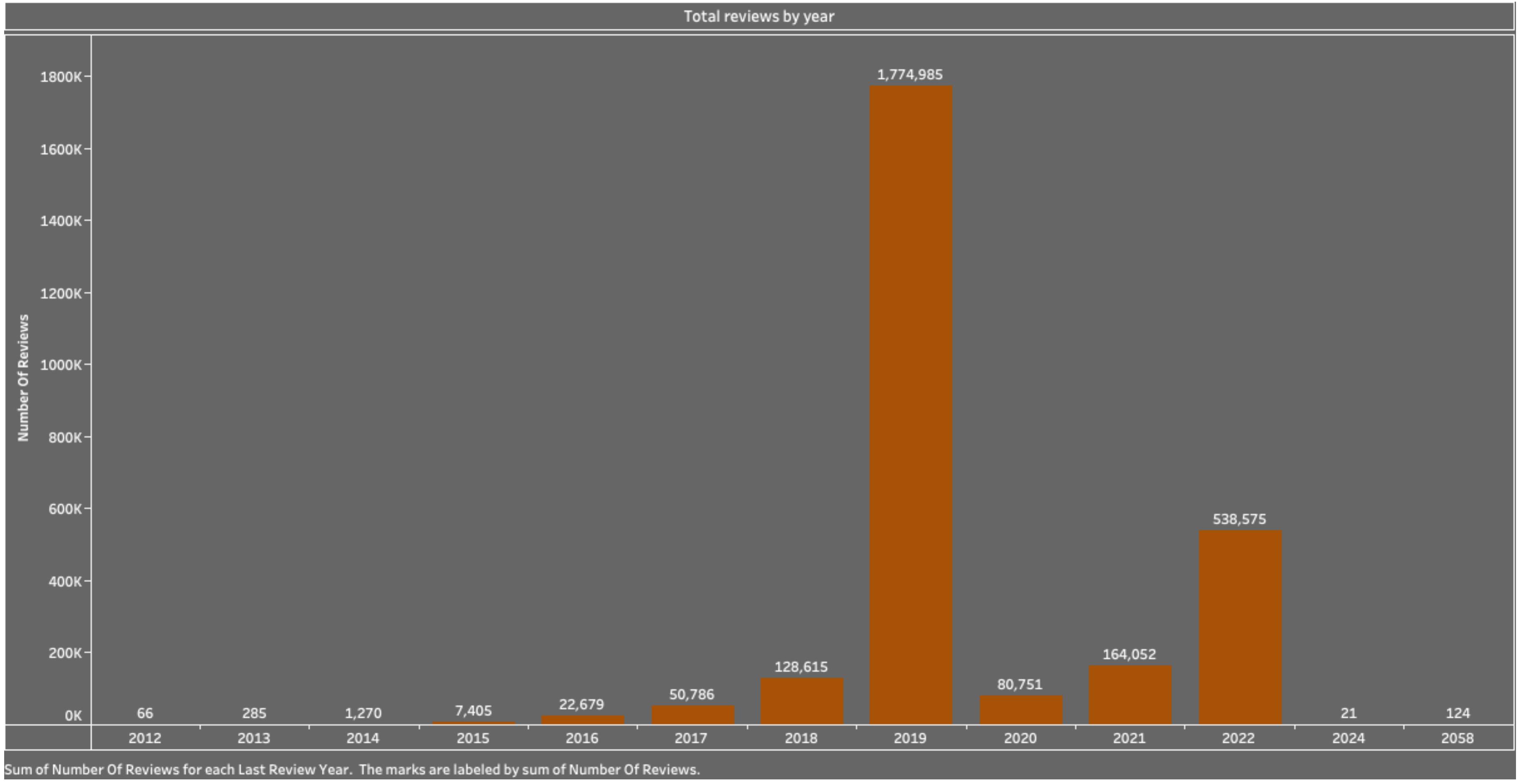


average price in nighborhoods-neighbourhoodgroup:All

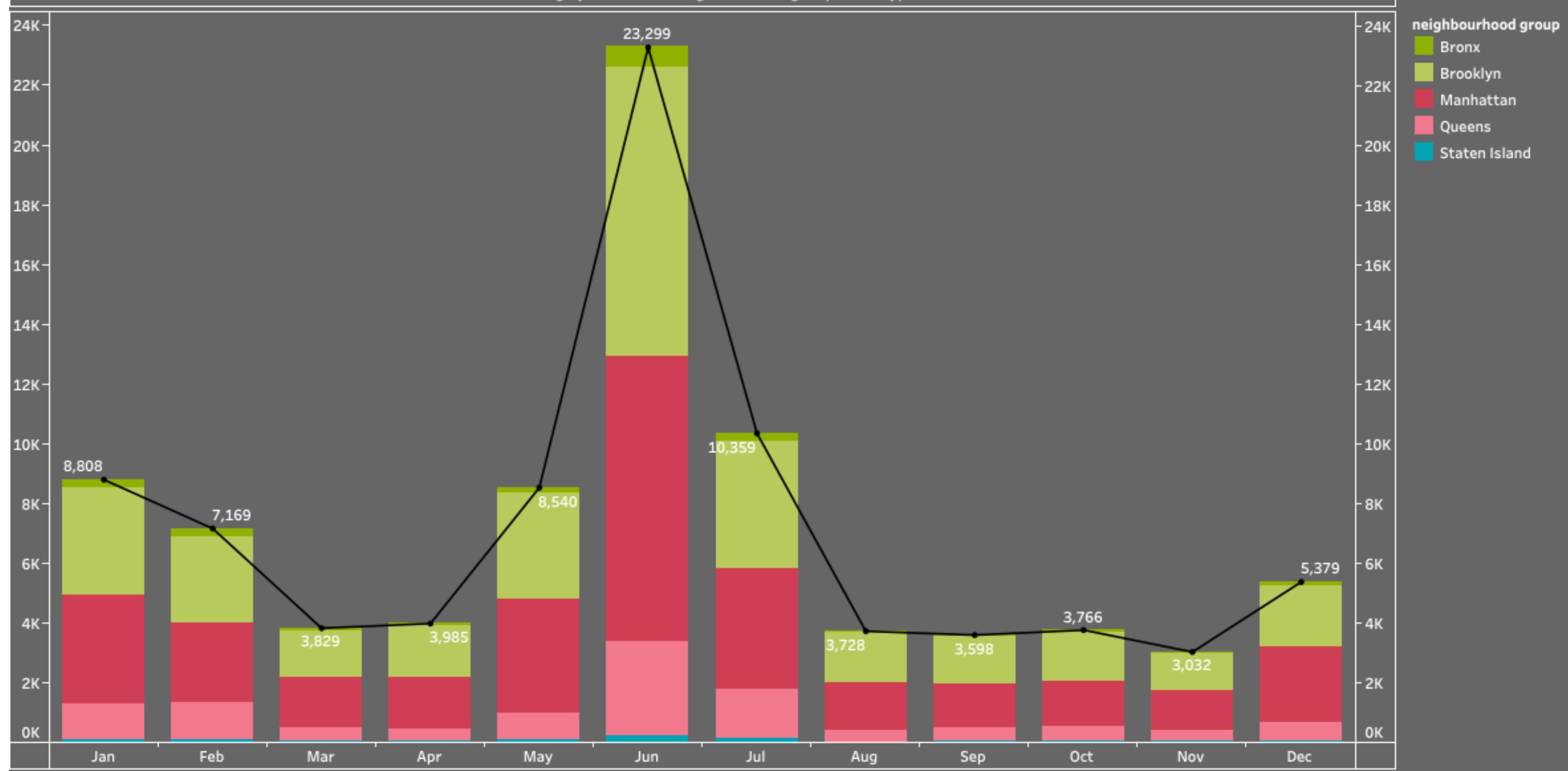


Average price per neighbourhood-room type: All





Total booking by month and neighbourhood group-room type: All



The trends of count of Name and count of Name for Last Review Month. For pane Count of Name: Color shows details about neighbourhood group. For pane Count of Name (2): The marks are labeled by count of Name. The data is filtered on Room Type, which keeps Entire home/apt, Hotel room, Private room and Shared room.



Insights

1

Manhattan and Brooklyn lead in the number of neighborhoods and bookings.

2

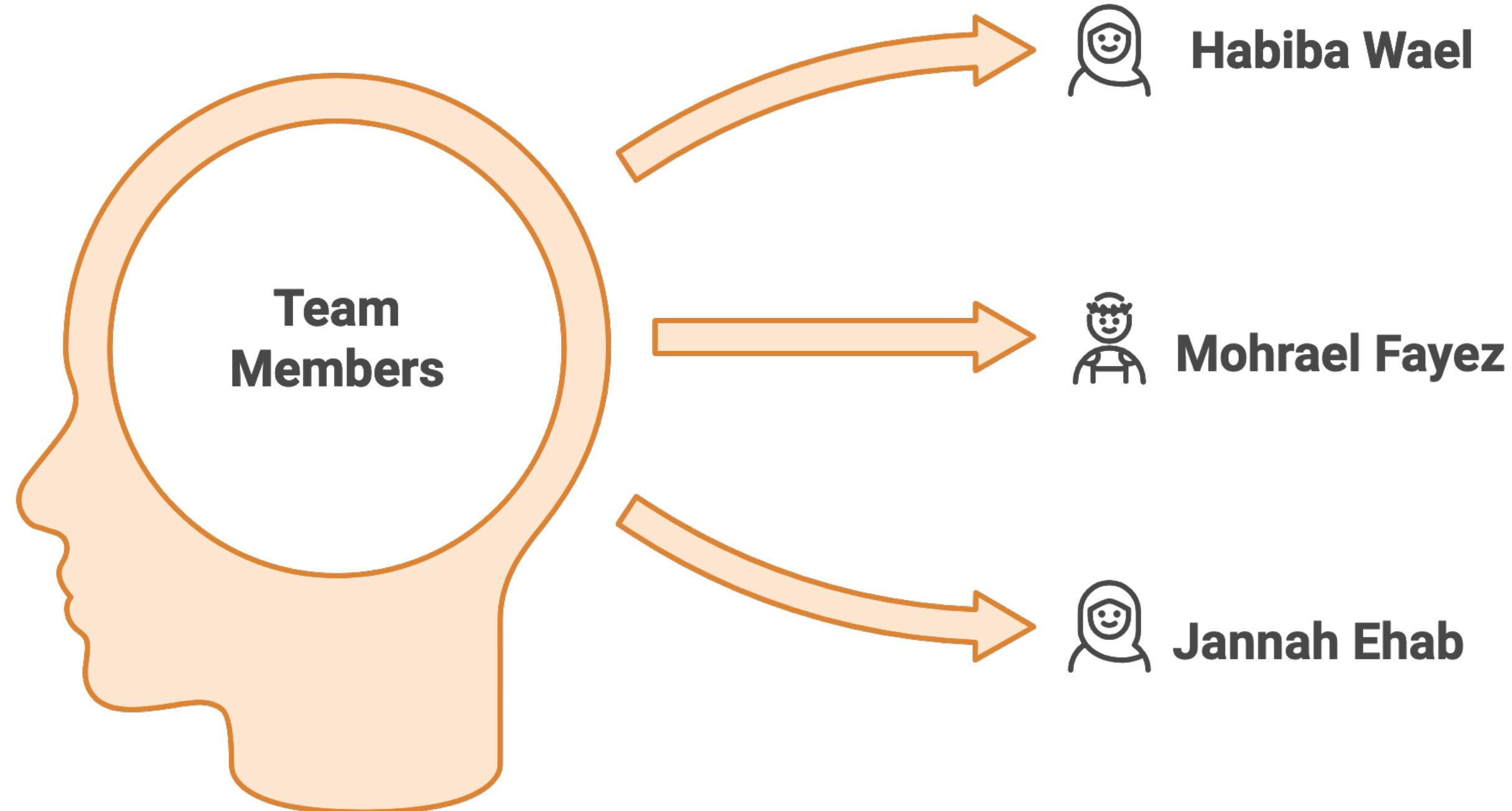
Entire homes are the most popular room type, especially in Manhattan and Brooklyn.

3

Listings in Brooklyn, Manhattan, and Queens are the most expensive.

4

Listings in Bronx and Staten Island are more affordable.



Instructor : **Abdullah Kamal**



THANK YOU