

# Airbnb Data Analysis

Insights from the Airbnb Listings in Amsterdam

# Agenda

Neighbourhoods (with respect to booked nights)

Revenue with respect to Neighbourhoods

Top 10 from Overall Listings

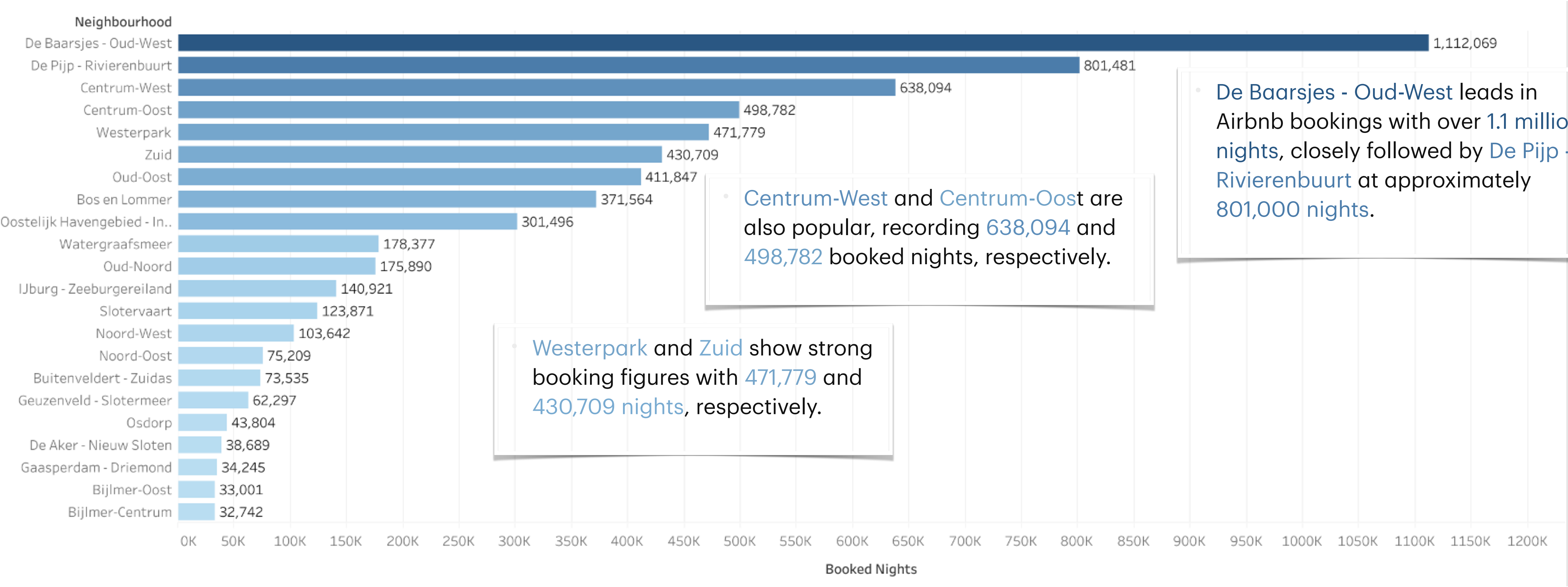
Correlation analysis: Factors affecting booked nights

Specific views:

- Booking by room type
- Booking by reviews (bucketed)

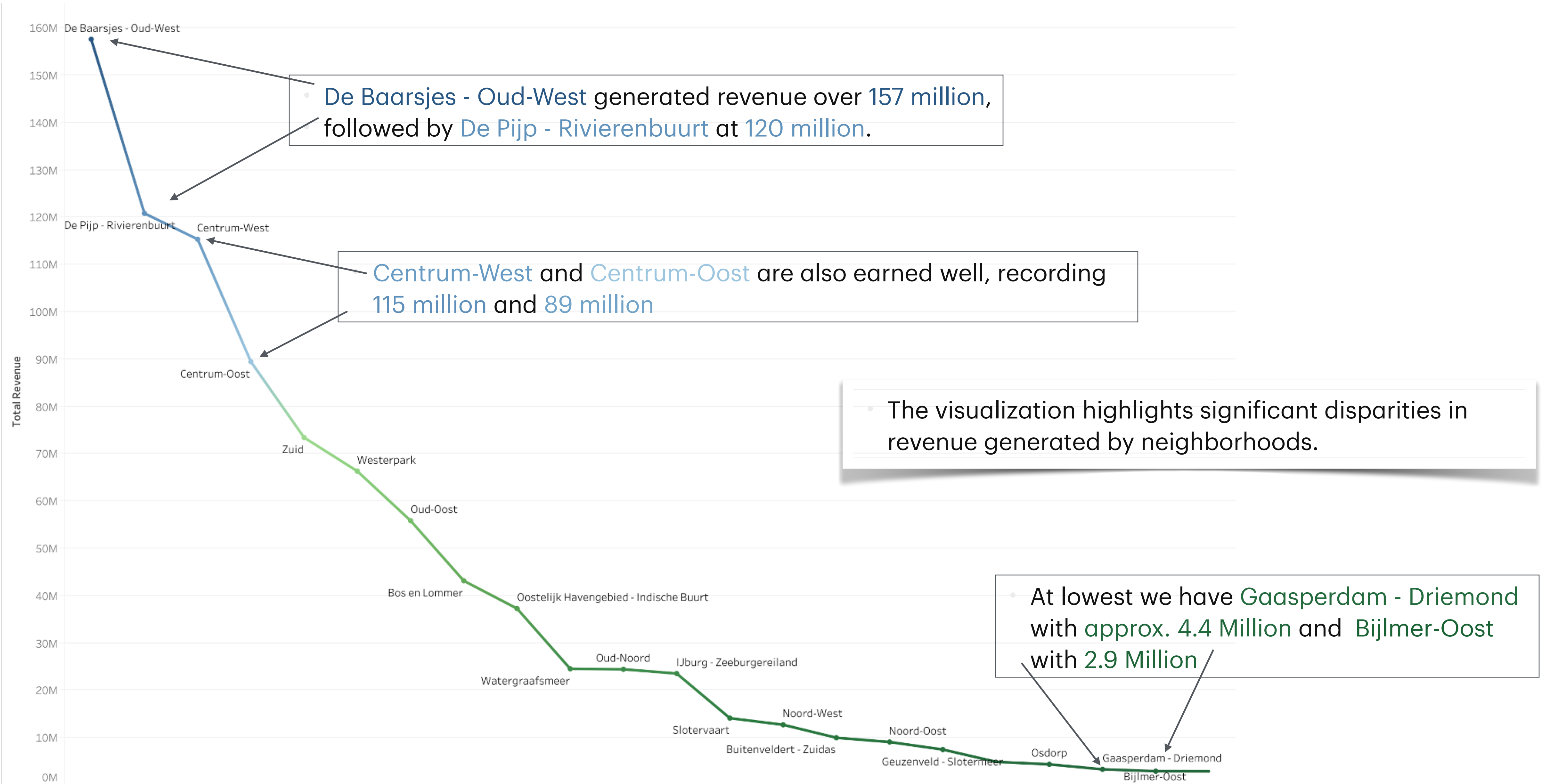
Revenue Generated by Top 10 Hosts

# Neighbourhoods (with respect to booked nights)



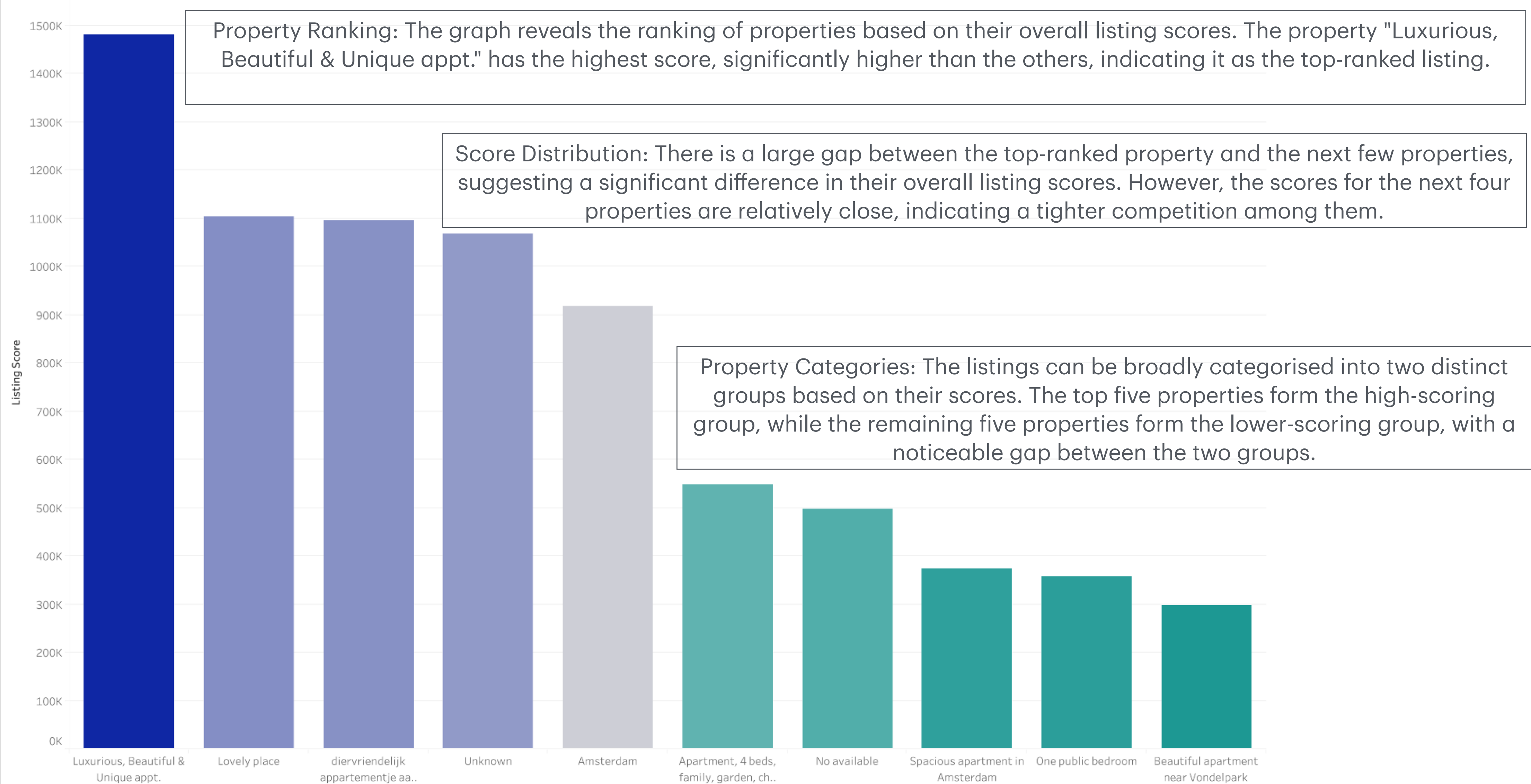
The Bar Graph highlights significant disparities in booking popularity, with neighborhoods like Bijlmer-Centrum and Bijlmer-Oost showing much lower figures.

# Revenue with respect to Neighbourhoods

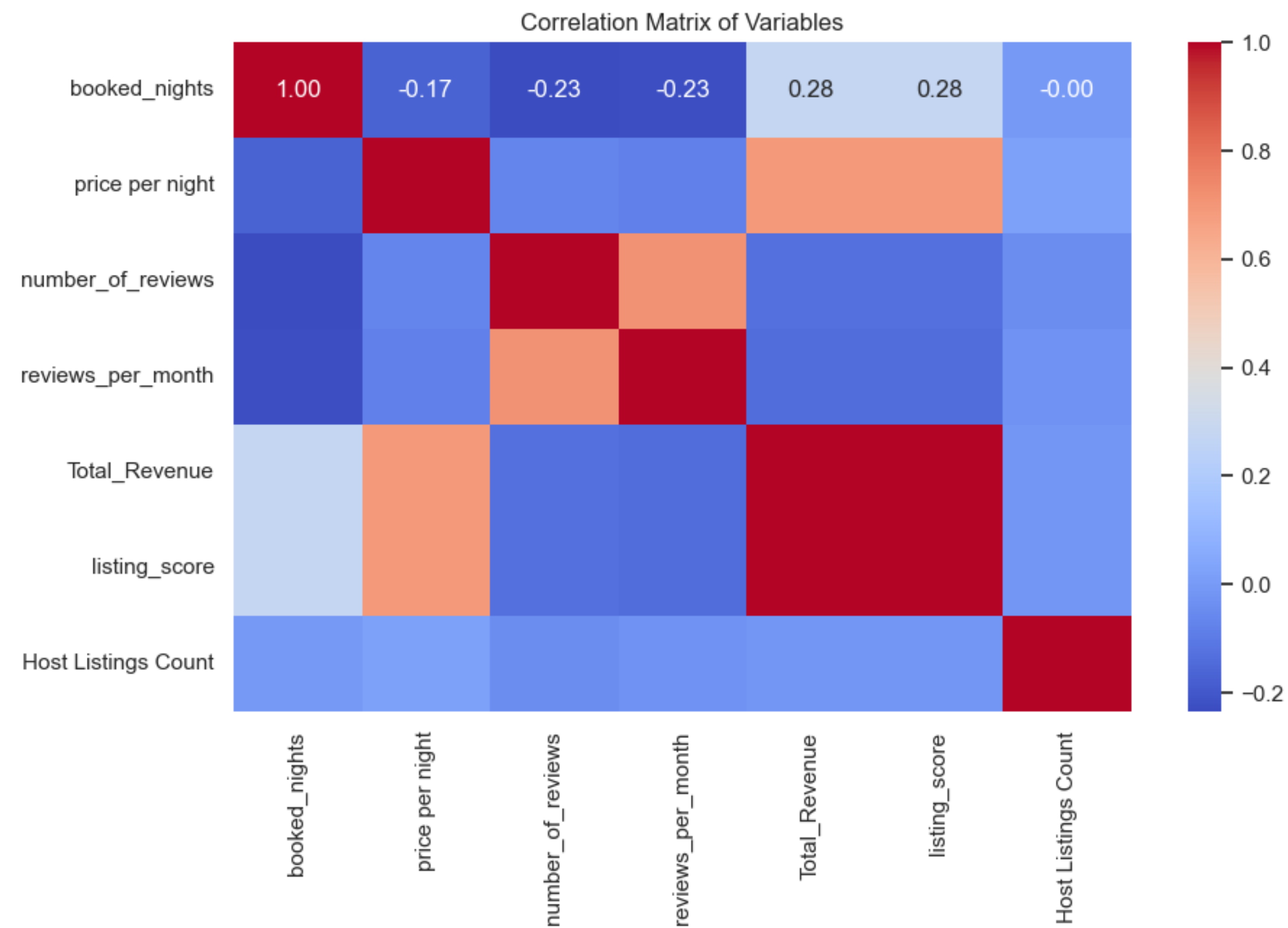




# Top 10 from Overall Listings



# Correlation Analysis: Factors affecting booked nights



The variables that show a notable correlation with the number of booked nights include:

- ``price per night``: Negative correlation (-0.1698)
- ``number of reviews``: Negative correlation (-0.2348)
- ``reviews per month``: Negative correlation (-0.2267)
- ``Total Revenue``: Positive correlation (0.2808)
- ``listing score``: Positive correlation (0.2806)

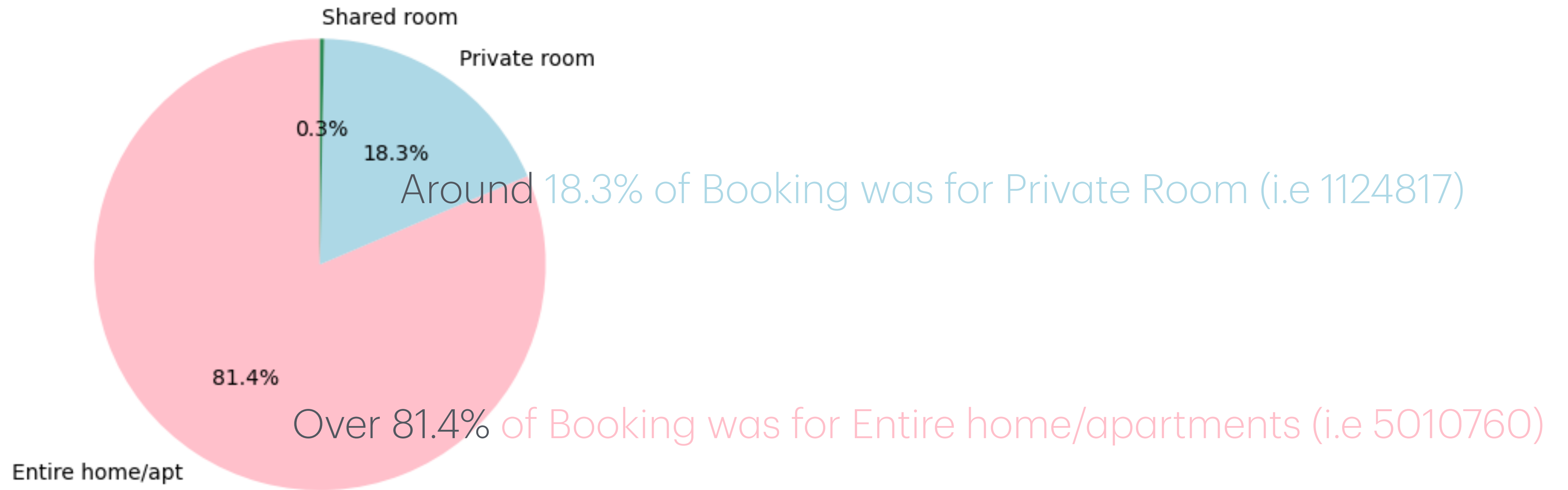
The number of booked nights has a moderate positive correlation of 0.28 with both total revenue and listing score, indicating that listings with more booked nights tend to generate higher revenue and have better listing score

The number of reviews shows a moderate negative correlation of -0.23 with both booked nights and price per night, implying that listings with more reviews tend to have fewer booked nights and lower nightly rates.

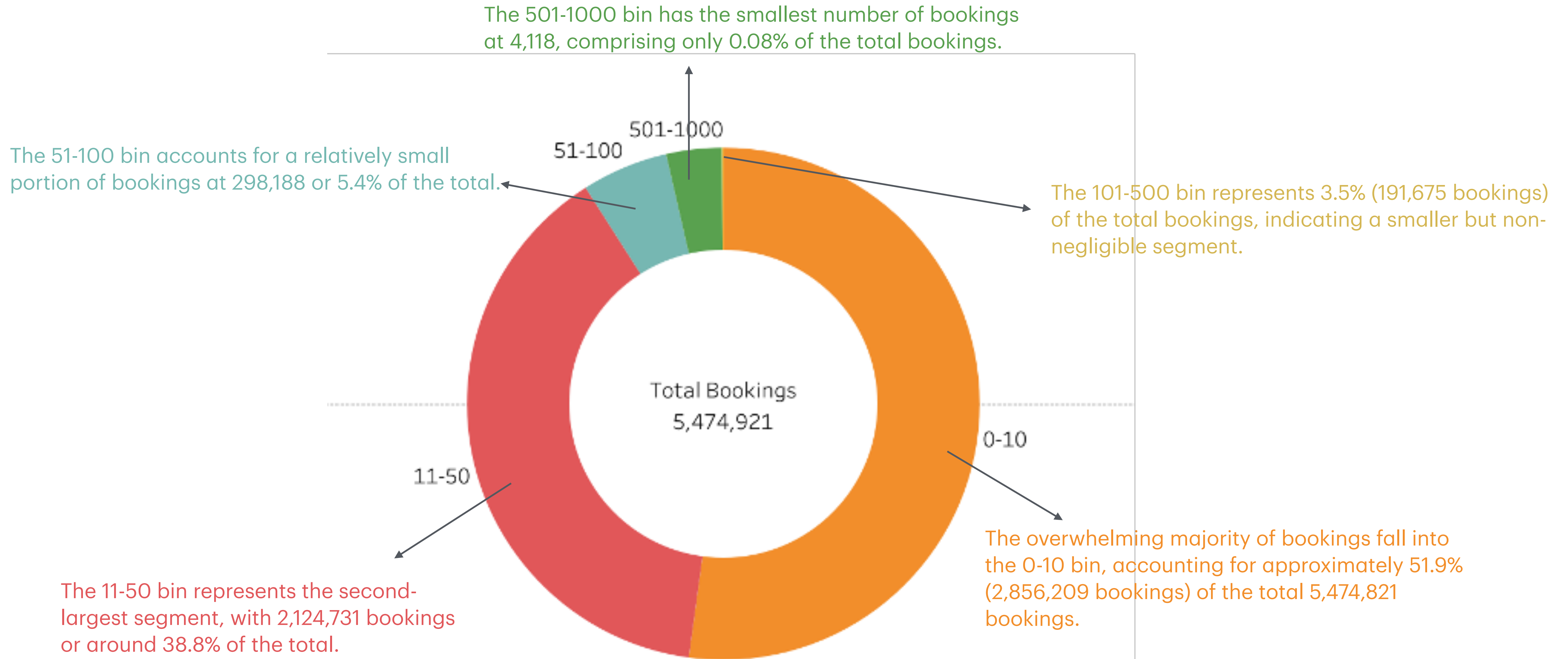
There is a negative correlation of -0.17 between the host listings count and price per night, implying that hosts with more listings may tend to have lower nightly rates.

# Booking by Room Type

Remaining 0.3% was booked for Shared Room (i.e 18467)

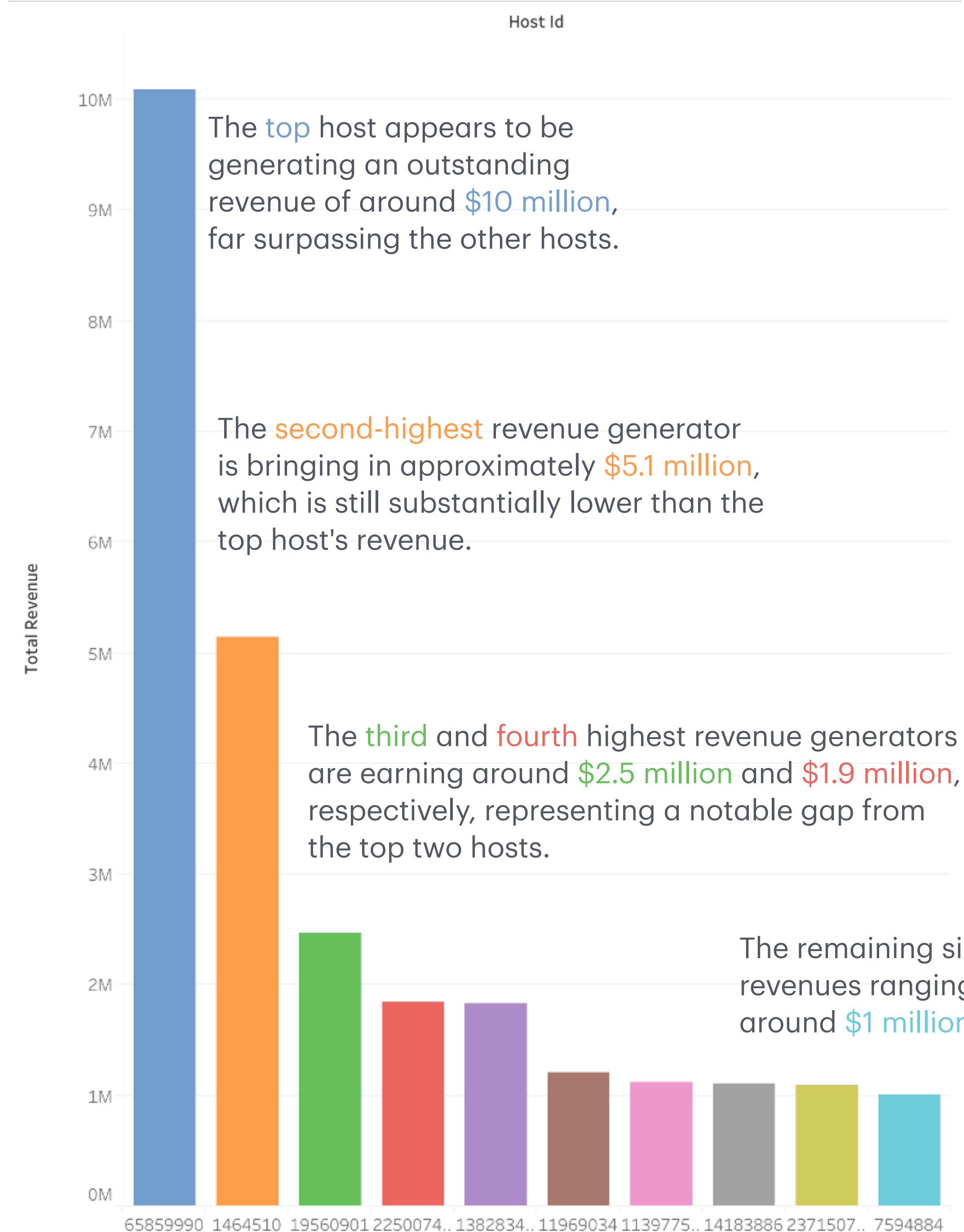


# Booking by Reviews (bucketed)





# Revenue Generated by Top 10 Hosts



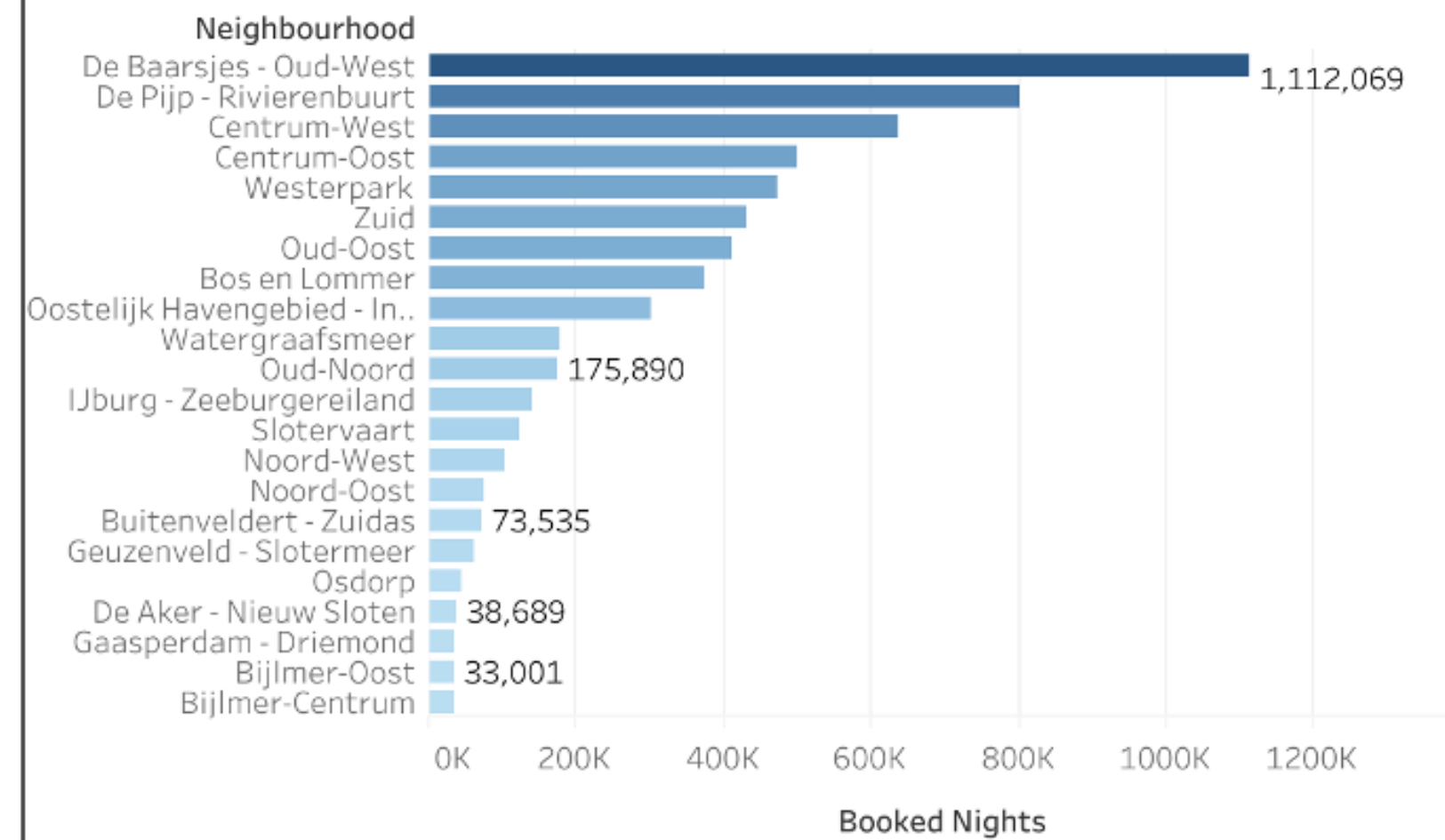
There is a significant disparity in revenue generated among the top 10 hosts, with a steep dropoff after the first two hosts.

The distribution of revenue among the top 10 hosts appears to follow the Pareto principle or the 80/20 rule, where a small percentage of hosts (the top 2) are responsible for a large portion of the total revenue.

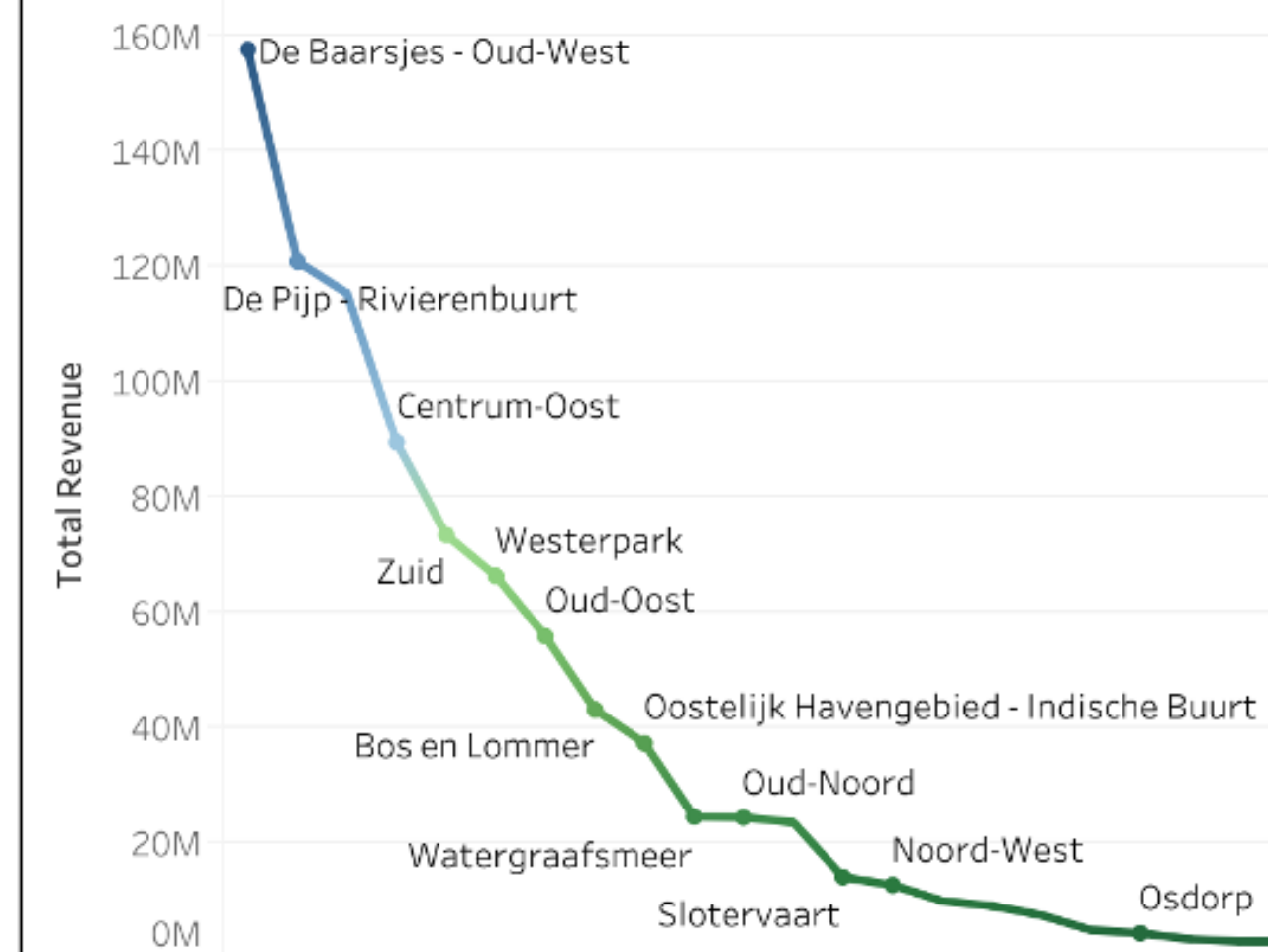
This concentrated revenue distribution could potentially indicate the presence of extremely successful or high-performing hosts, as well as opportunities for other hosts to optimize their strategies and offerings to increase their revenue generation.

# Tableau Dashboard

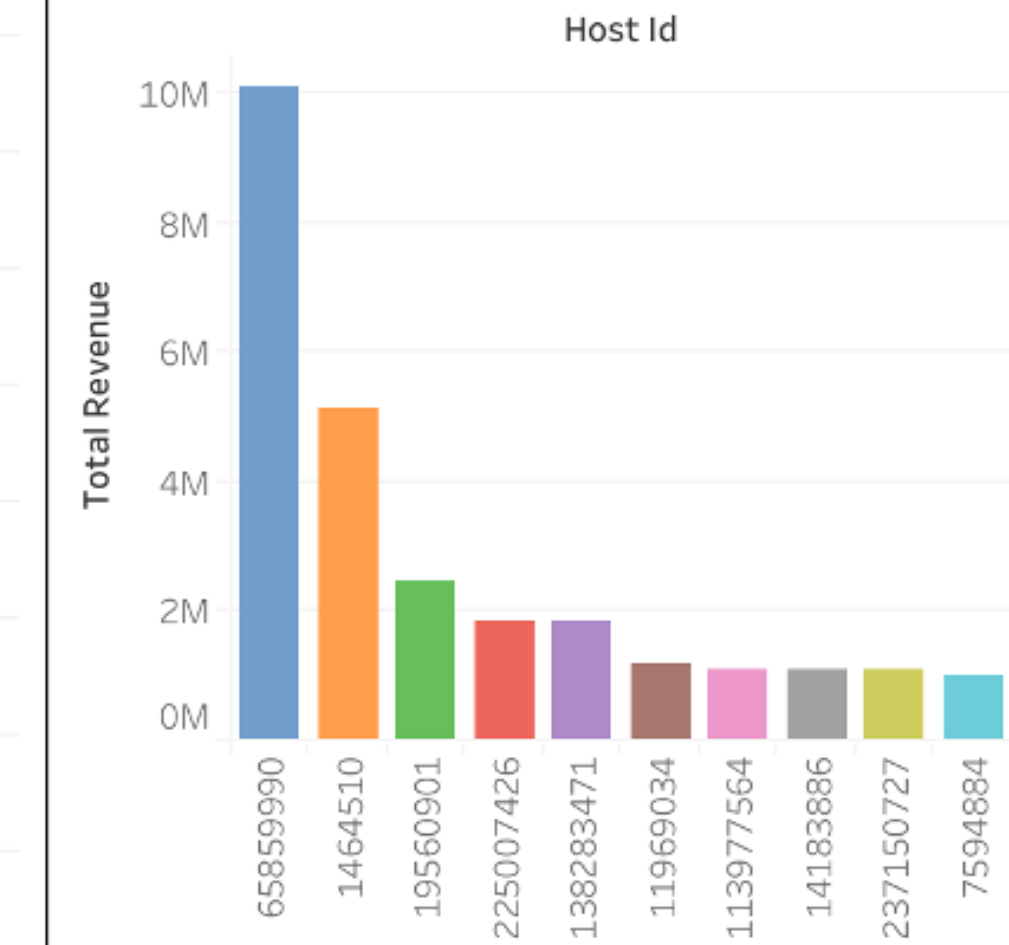
## Most popular neighbourhoods (with respect to booked nights)



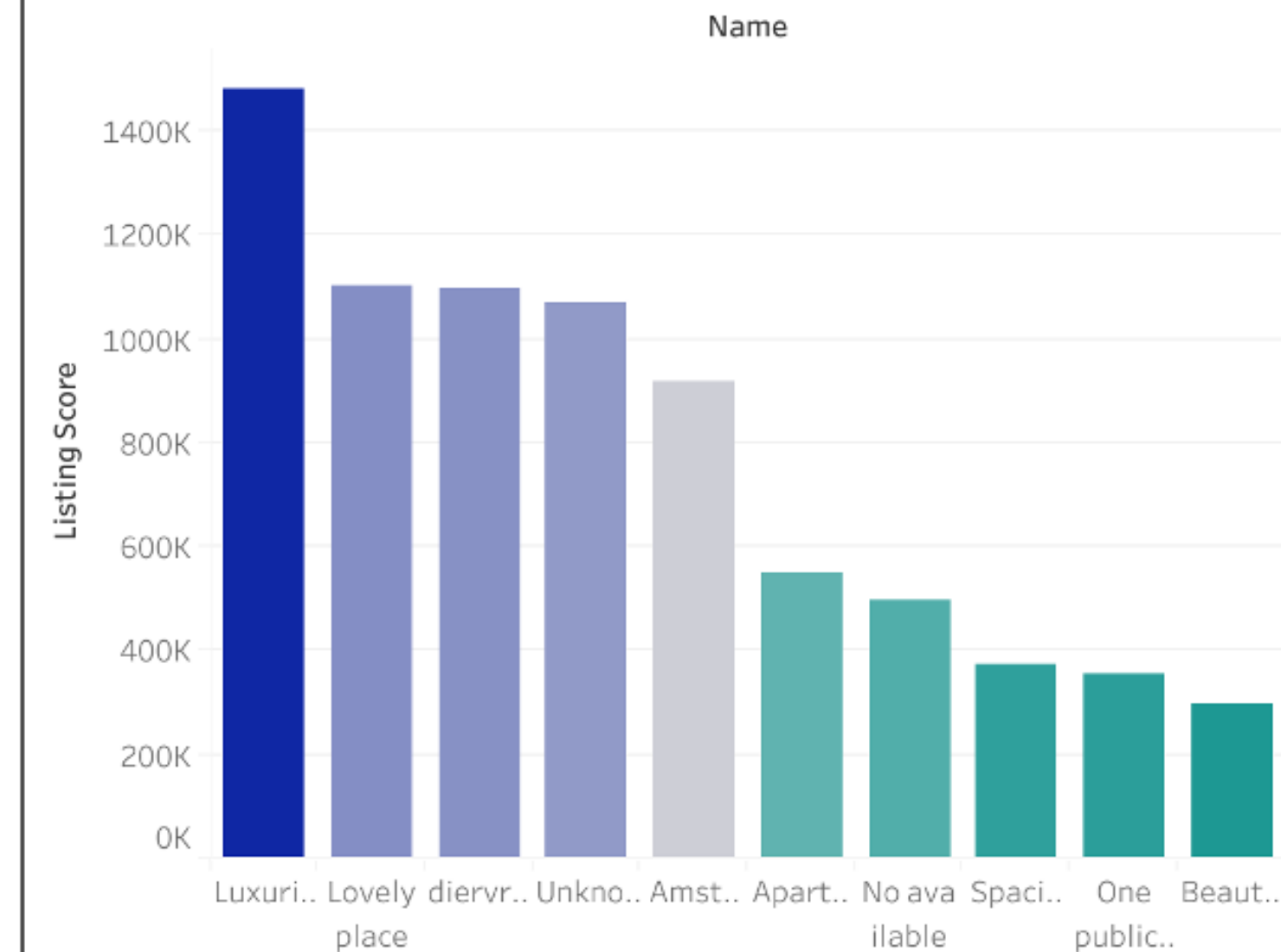
## Highest revenue with respect to neighbourhoods



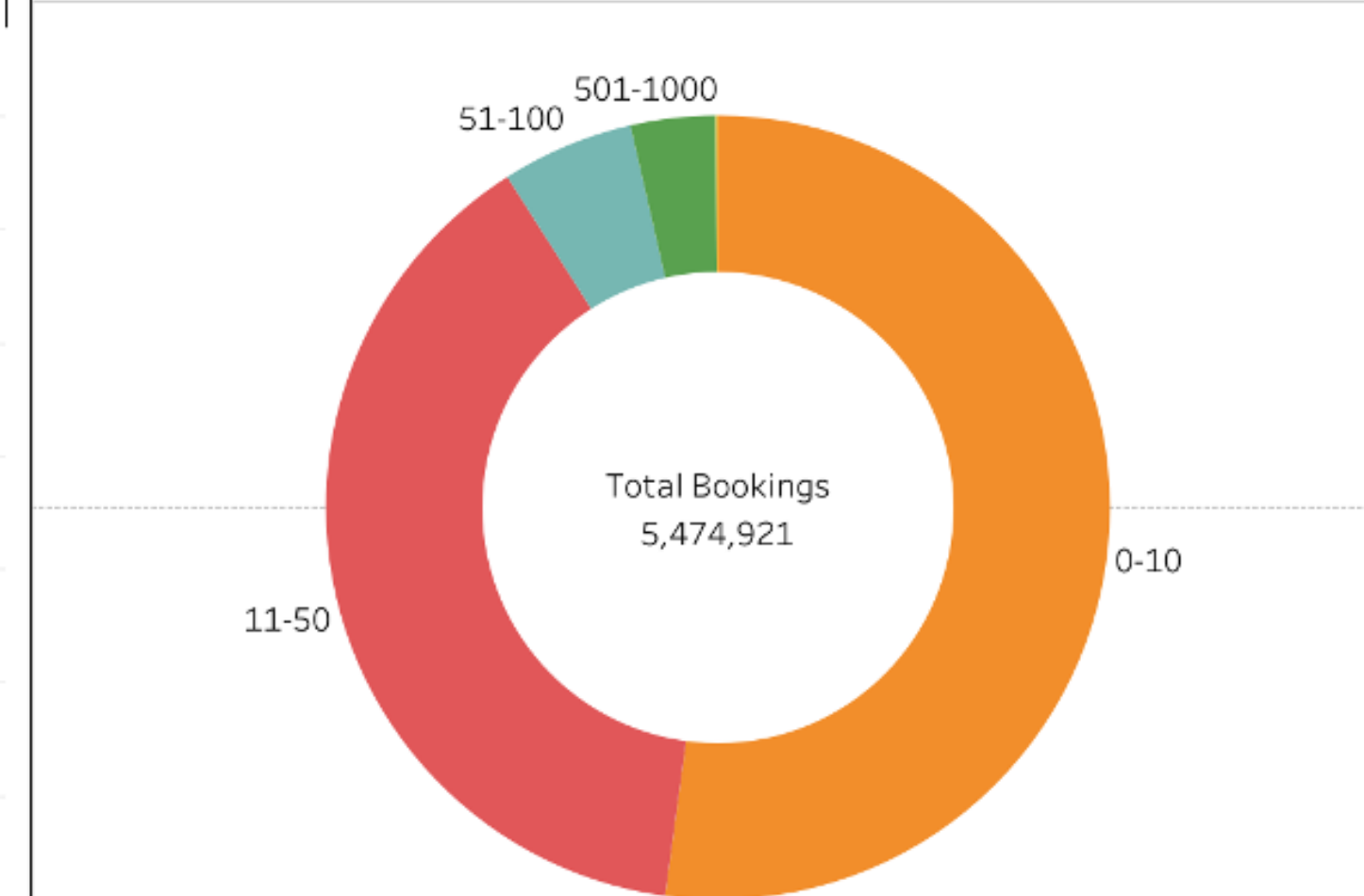
## Business done by Top 10 hosts



## Best overall listings



## Booking performance by reviews



## Booking performance by room type

