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|--------------|--------------------|------------------|-----------------------|-------------------------|---------------------------------|-------------------|-----------|
| Introduction | Number of Listings | Seasonal Pattern | Neighborhood Analysis | Property Type and Hosts | Rating Price and Number of Beds | Review vs Ratings | Dashboard |
|--------------|--------------------|------------------|-----------------------|-------------------------|---------------------------------|-------------------|-----------|

## Airbnb New York

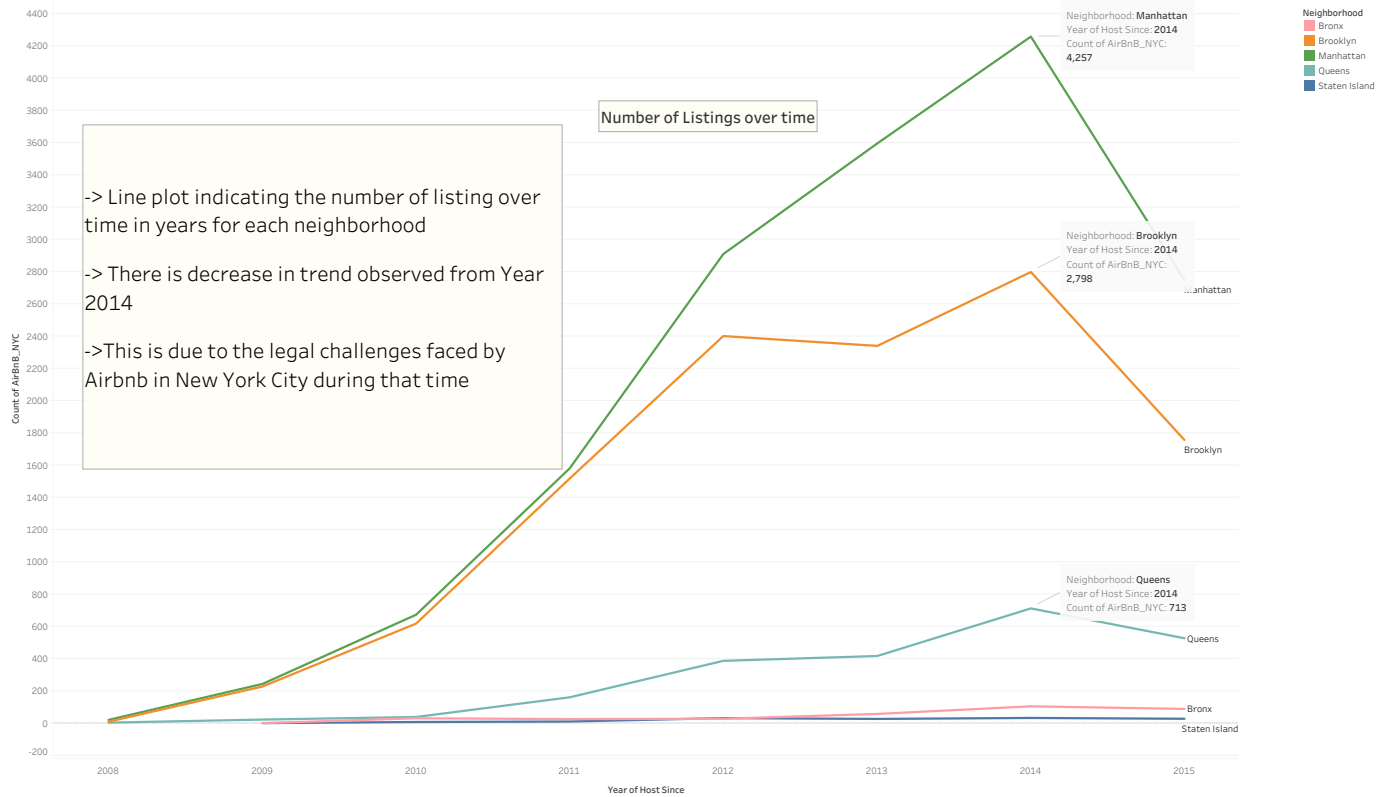


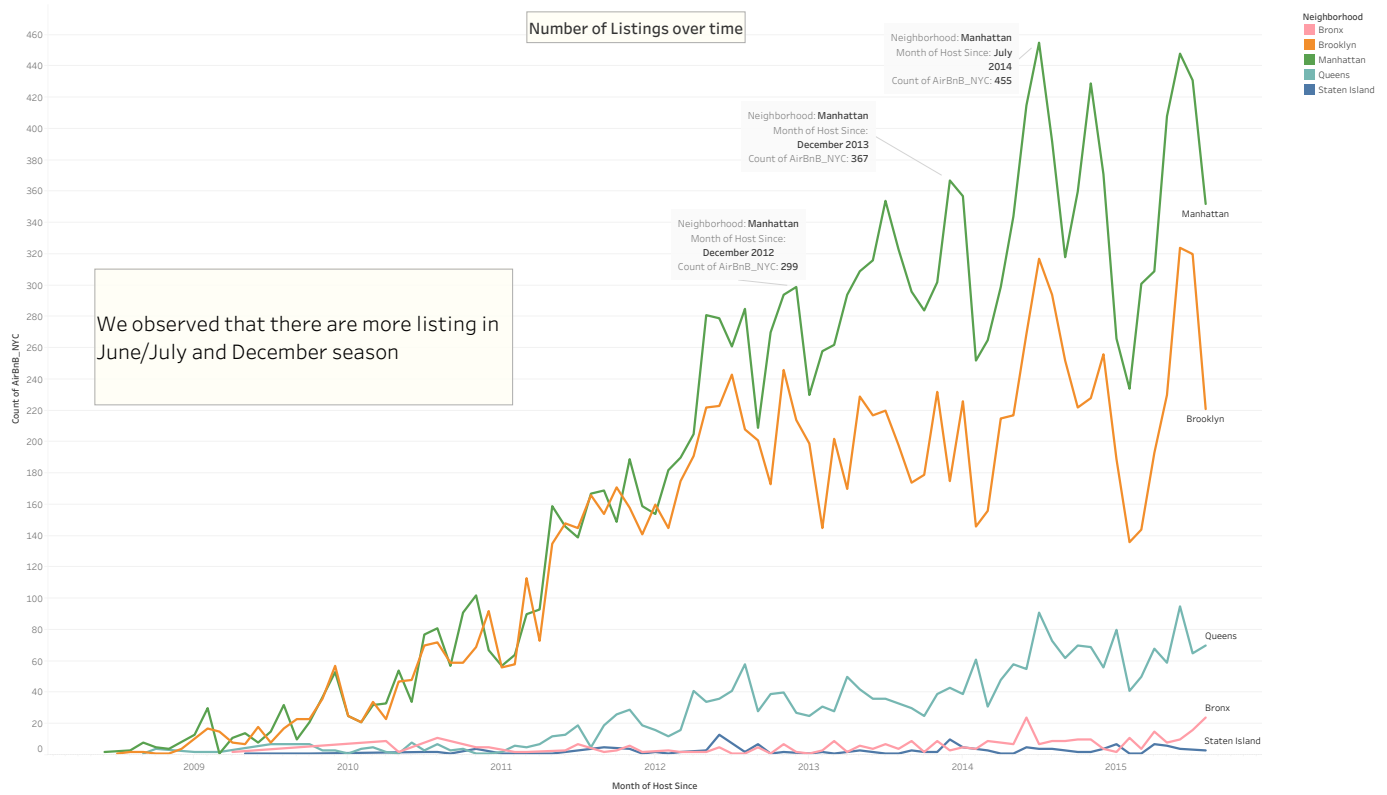
### Introduction

In this project, we will analyze a dataset of Airbnb listings in New York City to gain insights into the local market and explore the factors that affect pricing. By examining variables such as location, property type, reviews, and pricing, we hope to uncover patterns and trends that can help us understand the trends and behavior in the listings.

Below are questions we are trying to answer

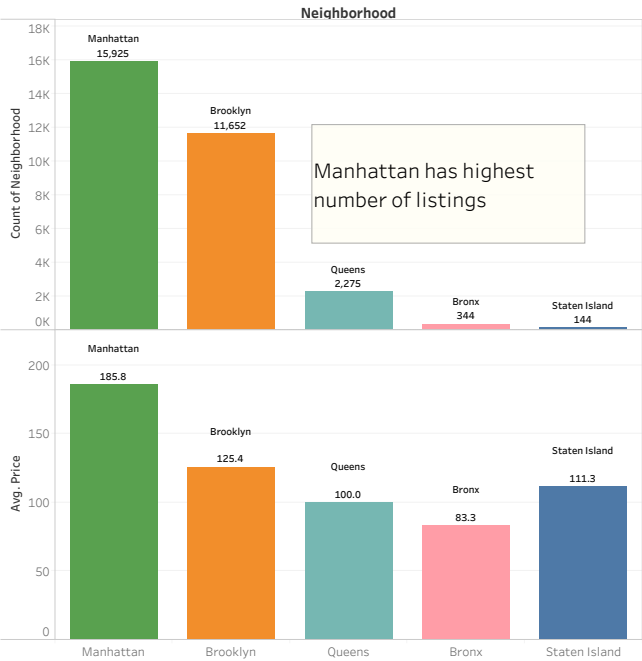
1. How has the number of Airbnb listings in each neighborhood changed over time?
2. Are there any seasonal patterns in the listings?
3. Which neighborhoods have the highest number of Airbnb listings?
4. What is the average price per night for Airbnb rentals in each neighborhood?
5. What is the most common type of property and room listed on Airbnb?
6. How does the price of Airbnb rentals vary based on the number of beds in the listing?
7. What is the distribution of review scores ratings for Airbnb listings?
8. What is the distribution of Price for Airbnb listings?
9. Is there a relationship between the number of beds and the price of the listing?
10. Is there a relationship between the review scores rating and the price of the listing?



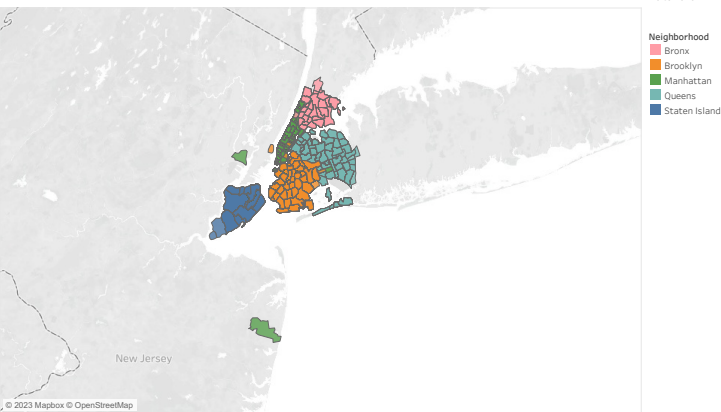


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Listings Per Neighborhoods and Average Price Per Neighborhood

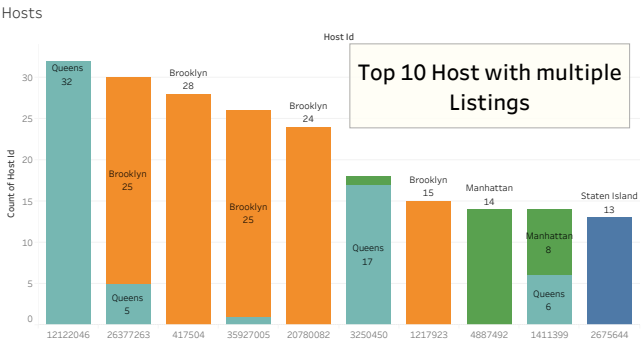
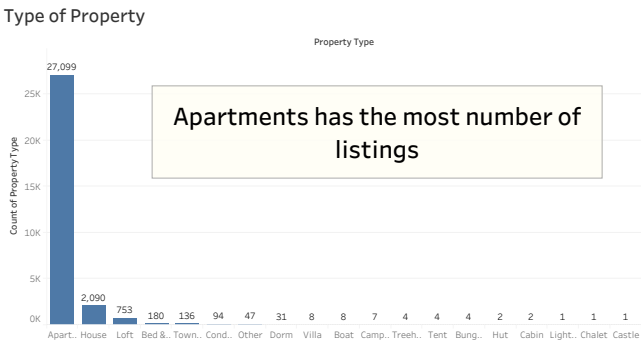
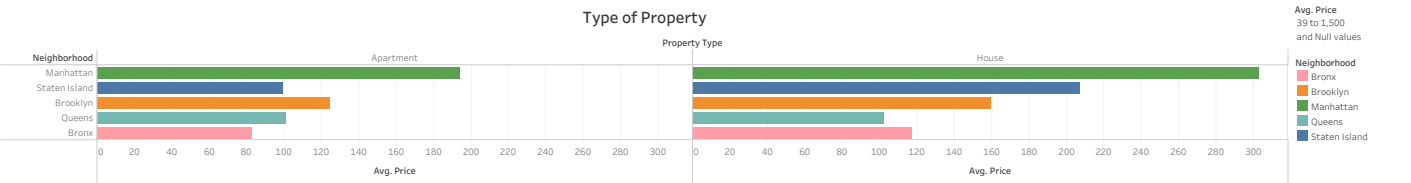


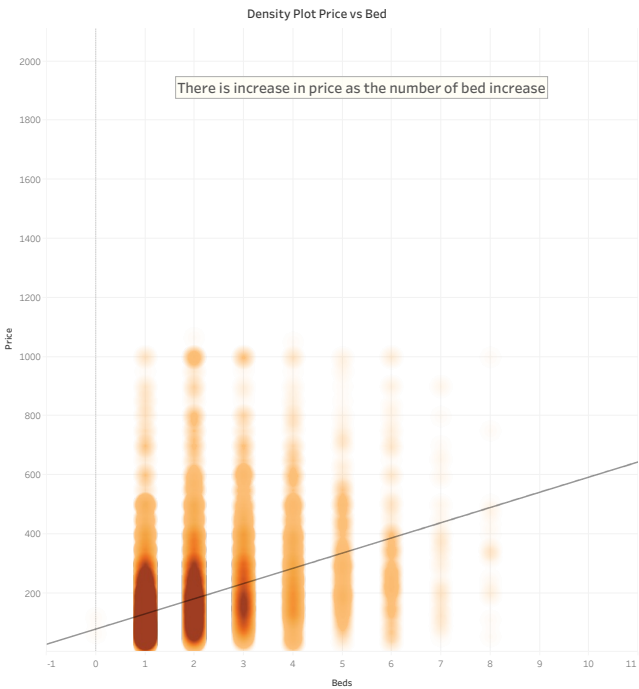
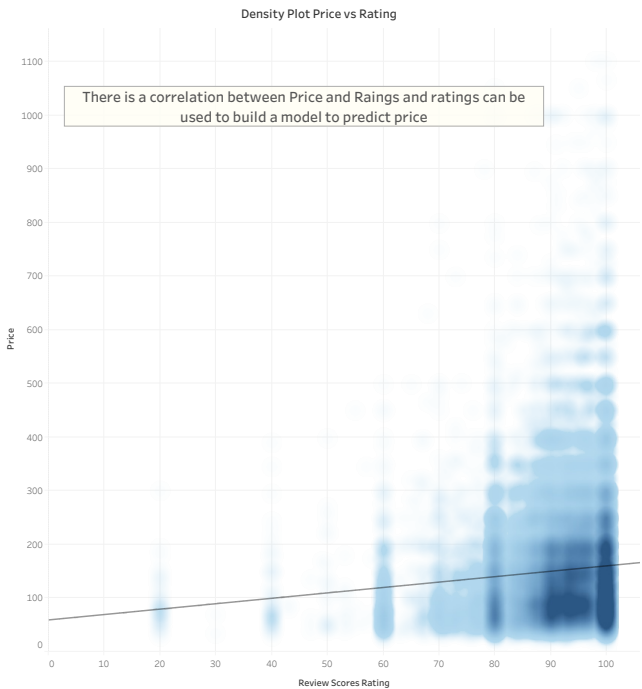
Map



Price Histogram







Price  
10 to 1120

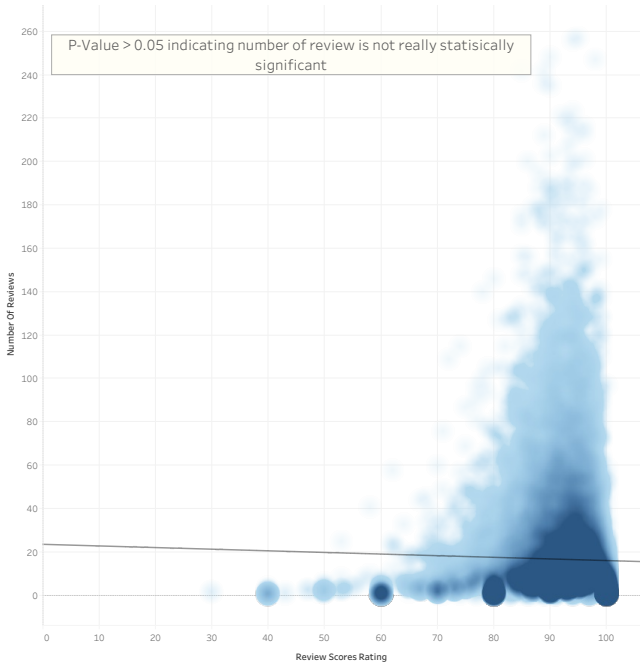
Number Of Reviews  
0 to 217

Review Scores Rating  
Non-Null Values Only

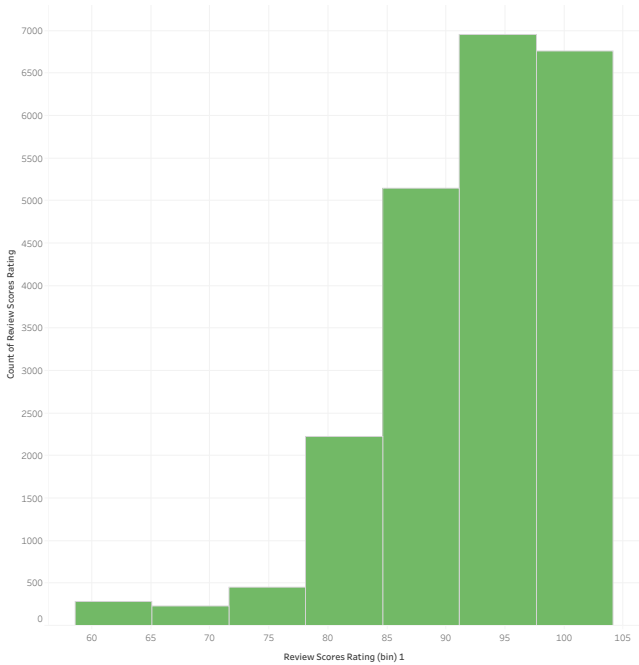
Beds  
0 to 8

Price  
0 to 1071

Number of Review vs Rating



Ratings Histogram

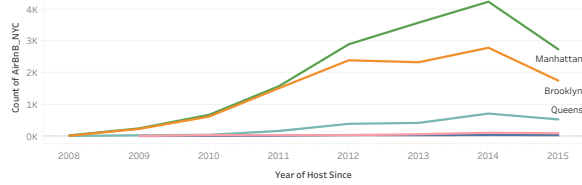


Review Scores Rating  
29 to 100  
and Null values

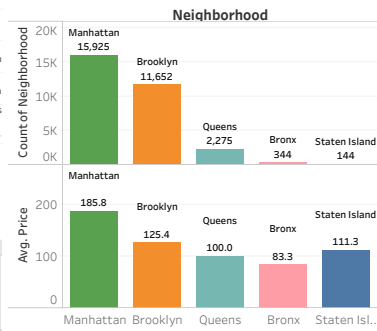


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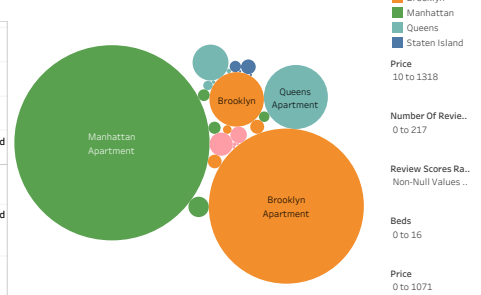
Number of Listings over time



Listings Per Neighborhoods and Average Price Per Neighborhood



Number of reviews - Property Type - Neighborhood



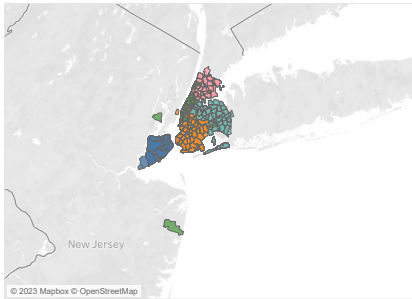
Type of Property



Hosts Statistics

|                              |        |
|------------------------------|--------|
| Count of Host Id             | 30,475 |
| Distinct count of Host Id    | 24,416 |
| Hosts with Multiple Listings | 6,059  |

Map



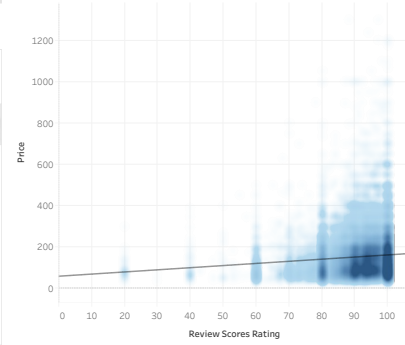
Room Type

|                 |        |
|-----------------|--------|
| Room Type       |        |
| Entire home/apt | 55.86% |
| Private room    | 41.37% |
| Shared room     | 2.77%  |

Average Price 164

Listings 30,475

Density Plot Price vs Rating



Density Plot Price vs Bed

