

Option 2 – AirBnB Dataset Tableau Project

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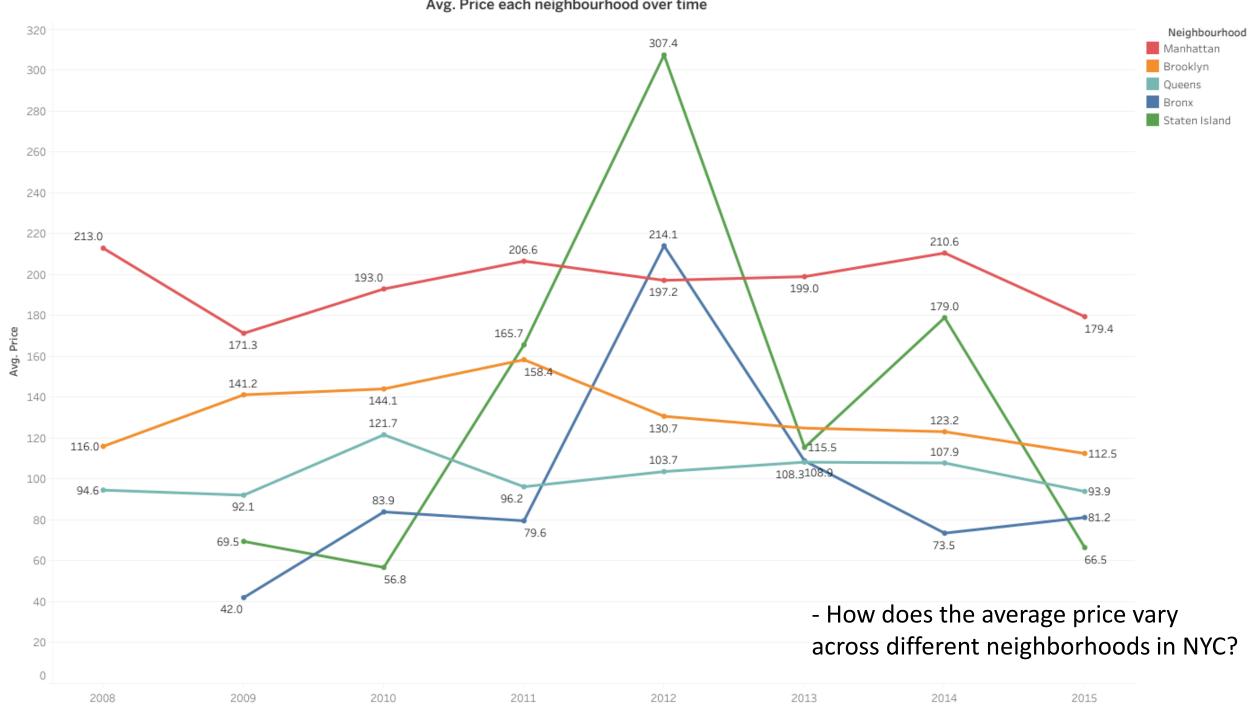
Project Objective

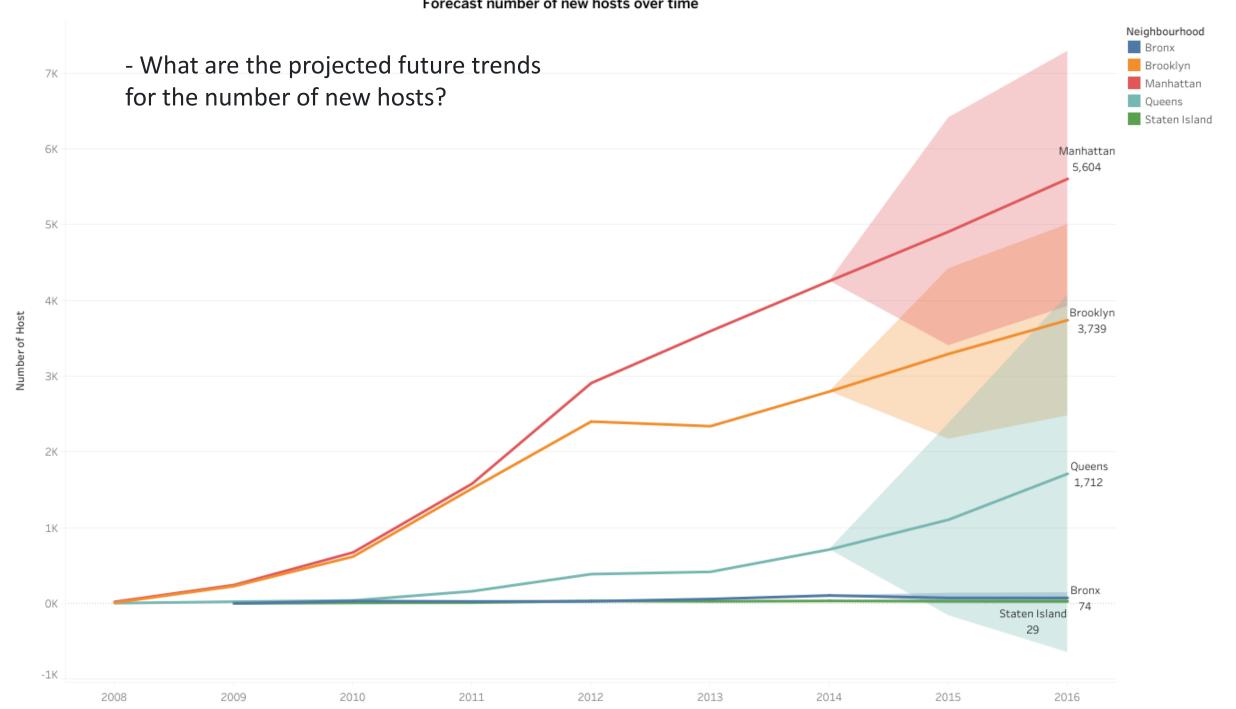
My overall objectives of this project are:

- Identify trends and patterns in pricing across different neighborhoods and property types.
- Forecast the number of new hosts over time to anticipate market growth.
- Cluster property types based on pricing to gain insights into market segments.
- Visualize the density and distribution of records to identify areas of high activity.
- Explore the distribution of beds across room types to understand accommodation preferences.
- Finally, create a dashboard to present the analyzed data and visualizations in a clear and concise manner.

Process

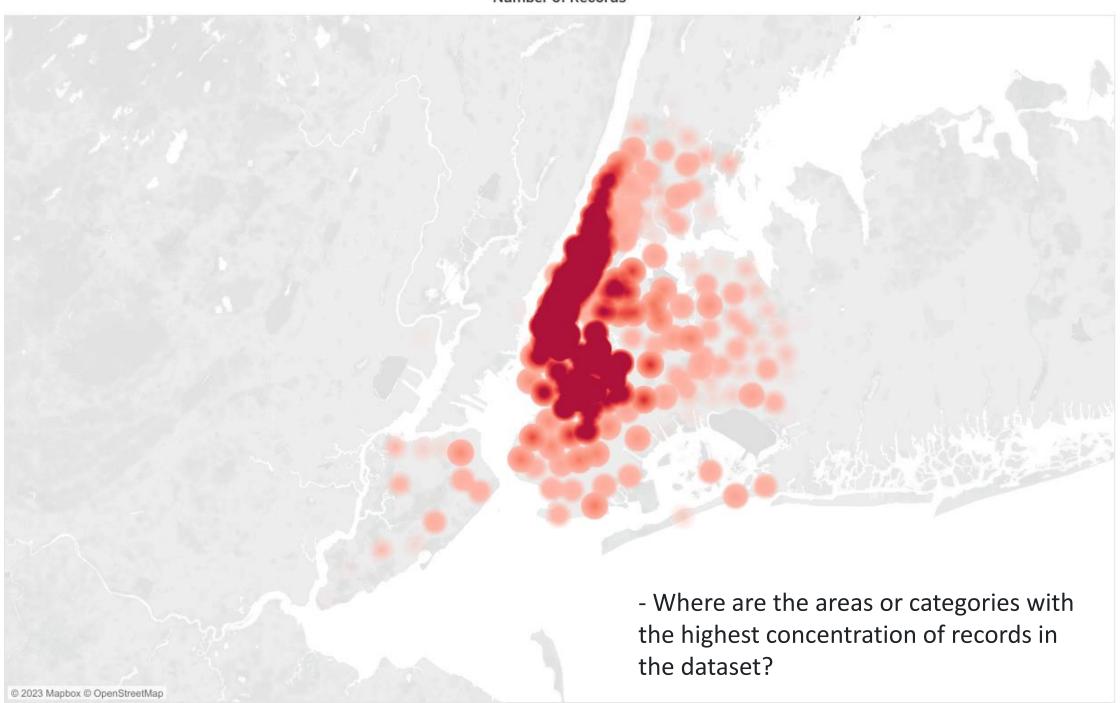
- Step 1: Data import
- Step 2: Created the following visualizations
 - Line chart showing the average price for each neighborhood over time
 - Line chart with forecasting to predict the number of new hosts over time
 - Clustering visualization to analyze the average price based on property types
 - Heatmap to visualize the number of records
 - Pie chart showing the percentage of number of beds based on room
- Step 3: Created a dashboard that combines all the above charts
 - The dashboard provides a comprehensive view of the data, allowing for easy comparison and analysis of different aspects of the Airbnb listings in NYC.

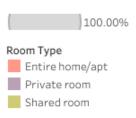


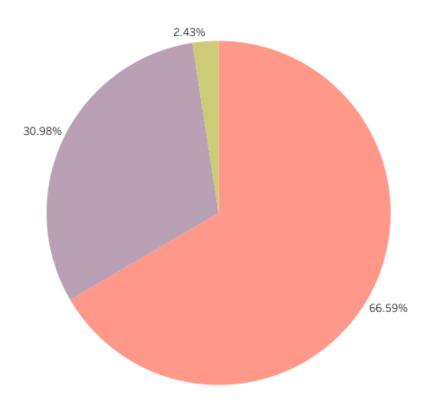




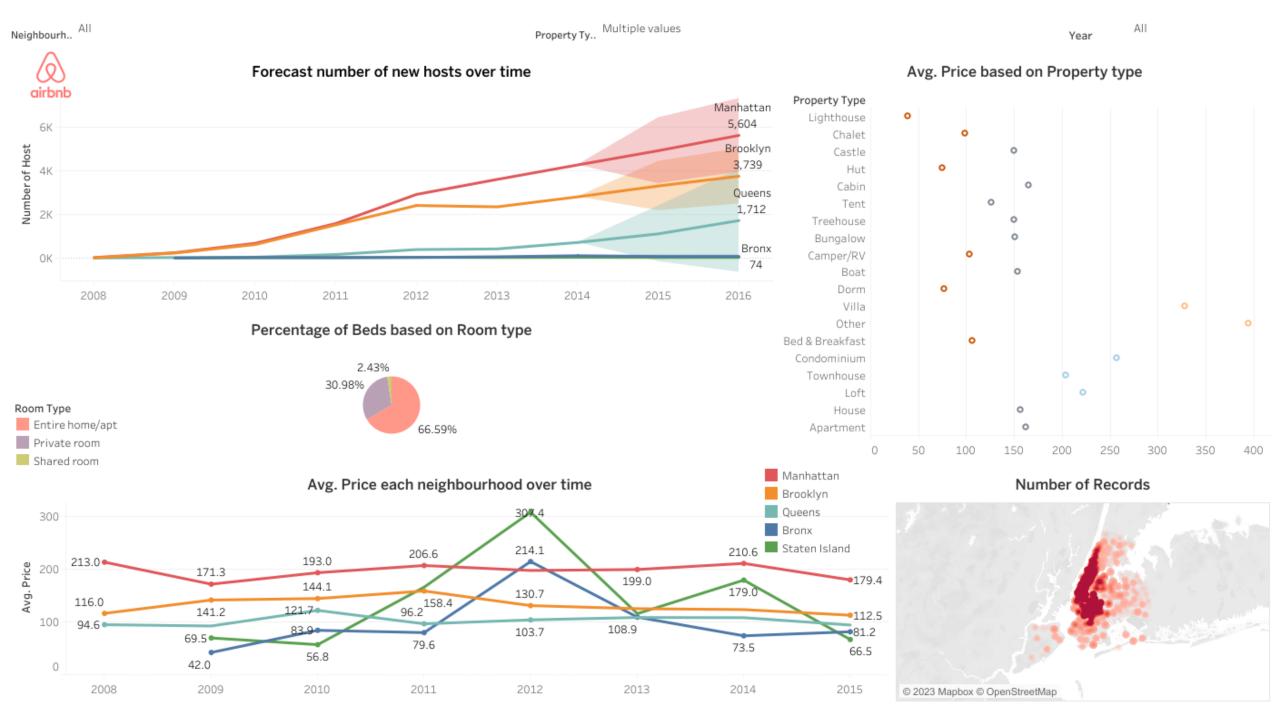
- How do the average prices differ among different property types?







- How does the distribution of percentage of beds vary across different types of rooms?



Challenges

- Option 1: uncleaned dataset and difficulty to find common keys. Took me a lot of time to understand the questions
- Quite time consuming to come up with ideas and choose suitable charts

If I had more time...

- creating more charts and conducting additional experiments to extract further insights from the data.

(And maybe I would like to continue to work on Option 1 to solve it)