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# Choose the Best Airbnb Host in NYC: A Geo-Visualization Project

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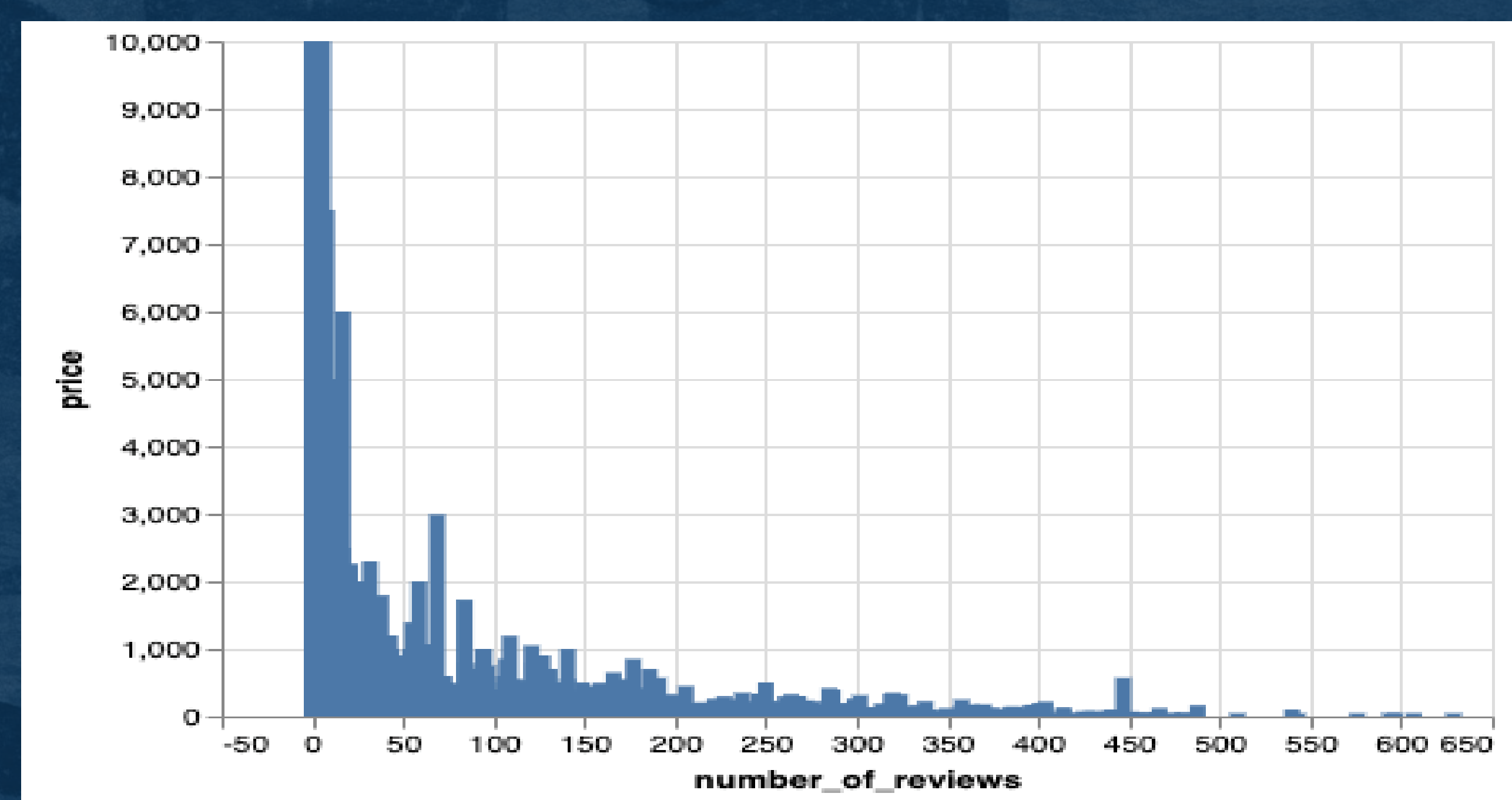
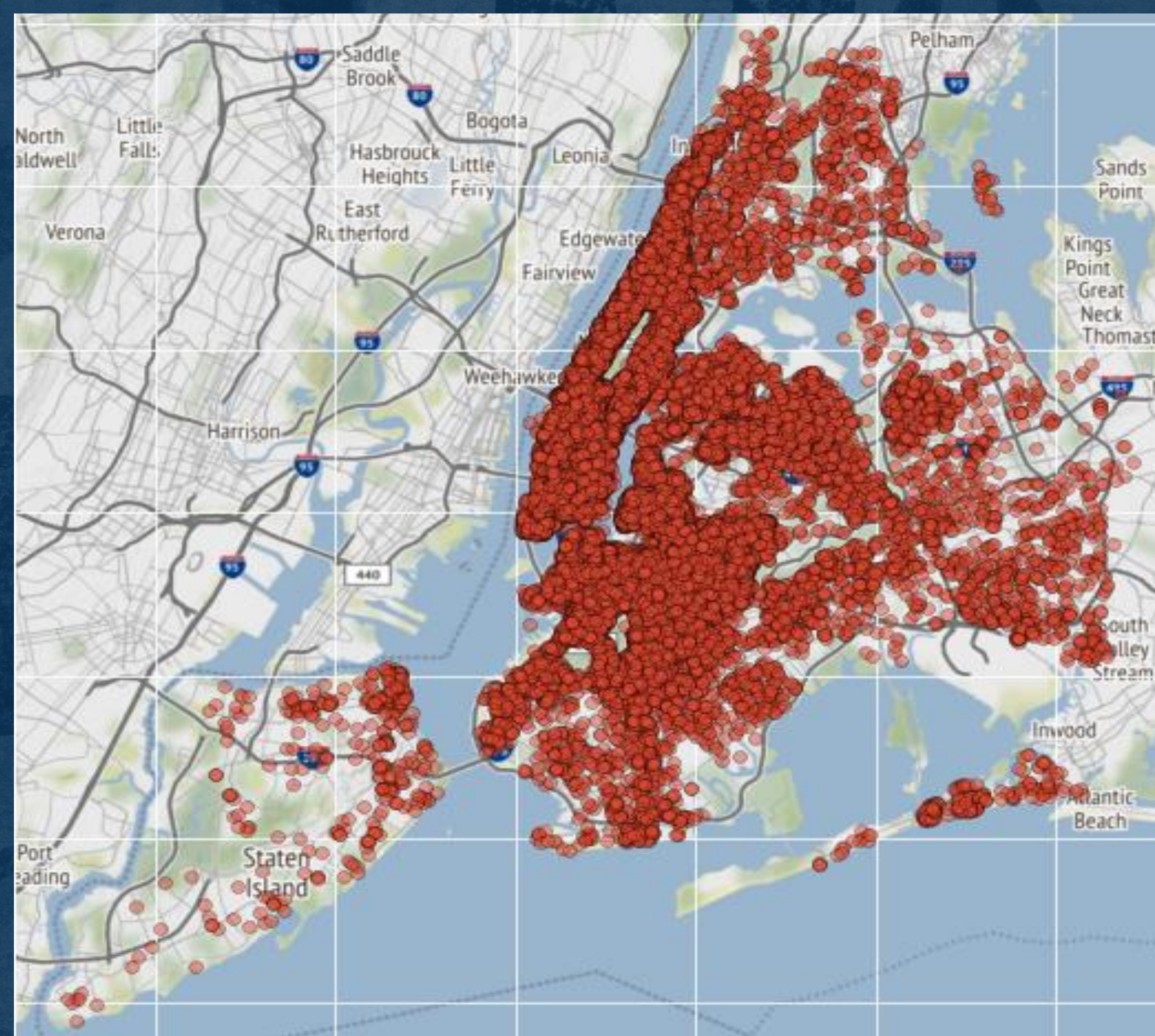


## Abstract

The objective of this research project is to know which parts of New York City (NYC) are in high demand for the guests, and to find the statistics of the reviews based on different parts of NYC and why people choose a specific part of the city. This project will be developed using Python programming language to do the cleaning, normalizing, visualizing and analyzing of the dataset. Jupyter Notebook will be used as IDE as well as other libraries like Pandas and NumPy, Matplotlib and GeoPandas. Furthermore, a website with HTML5 coding will be developed to visually display the data and the map. The poster presentation will be about different areas of NYC where the busiest hosts are located, and it will also show the reasons why guests choose those hosts, alongside predictions and comparisons about the prices and locations. A website will be developed for this project to show the map of NYC with the places where most reservations are made. It will also allow the users to explore different details such as review per month, prices, room types and reasons for reservations about the hosts who are the busiest. This will help the user make educated decisions about their choice of Airbnb hosts in NYC.

## Acknowledgment

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## Research Questions

- Which hosts are the busiest and why?
- In which range of prices, we can get the most reviews?
- Is there any noticeable difference in Airbnb reservations in various areas of NYC, like Queens, Brooklyn, Manhattan etc.? What are the factors that are attributable to that difference?
- What can we learn about different Airbnb hosts located in the NYC areas?

## Method

People could enhance their knowledge about Airbnb hosts and reservations after seeing statistics about NYC hosts. This project will be expanded to create a data visualizing website as well.



## References

<https://data.cityofnewyork.us/City-Government/Neighborhood-Tabulation-Areas-NTA-/cpf4-rkhq>