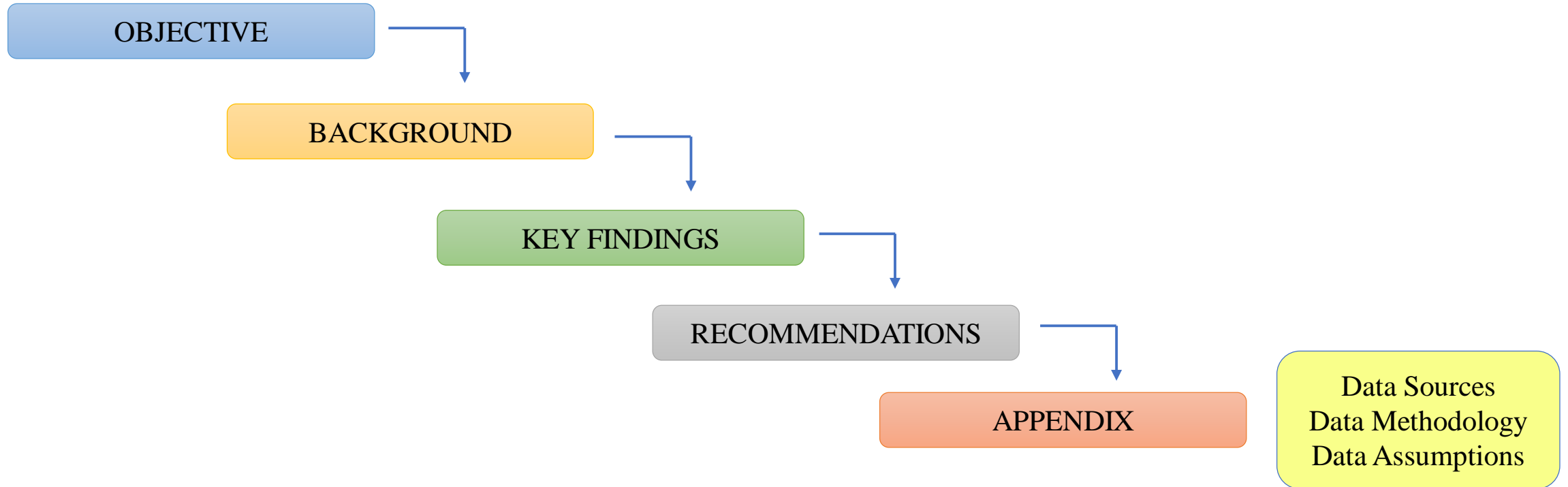


The Dynamics of New York's Airbnb



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AGENDA



OBJECTIVE

To analyze Airbnb listings in New York City and identify data-driven insights that can help Airbnb increase revenue and prepare for the revival of travel.

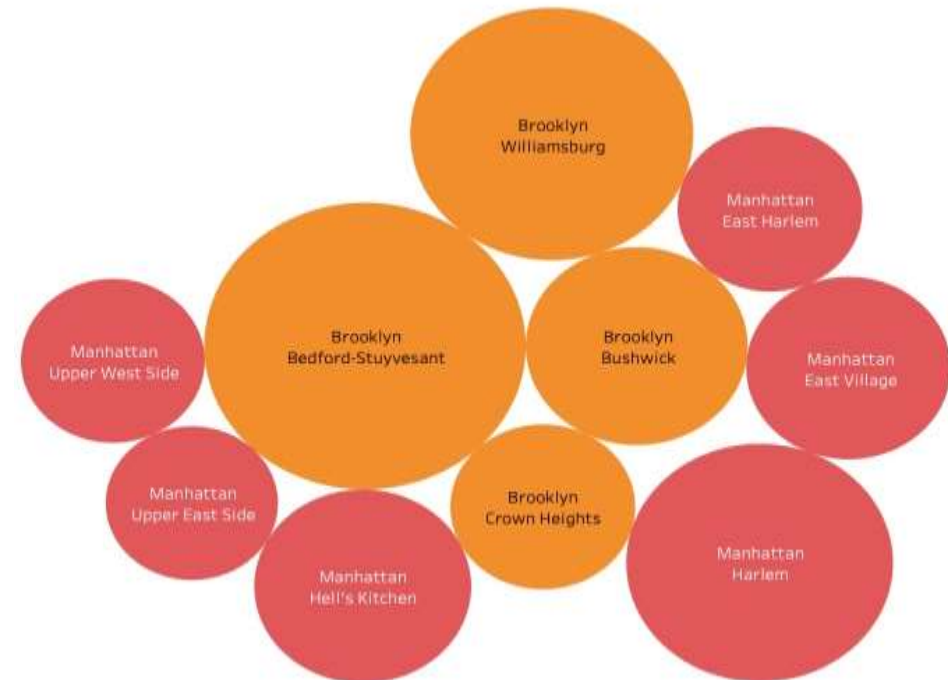
- Identifying preferred hosts and locations for acquisition.
- Categorizing customers by preferences.
- Targeting specific neighborhoods.
- Determining pricing preferences.
- Understanding property types and adjustments.
- Identifying popular areas in New York.
- Strategies to boost unpopular property traction.

BACKGROUND

- Airbnb is a global online marketplace for vacation rentals, lodging, and tourism activities.
- Founded in 2008, Airbnb has grown rapidly and become a major player in the travel industry however, Airbnb has experienced a critical decline over recent months.
- This decline can be attributed to various factors, including the COVID-19 pandemic, travel restrictions, and economic uncertainty.
- With the relaxation of restrictions and an uptick in travel activities, Airbnb aims to proactively adapt to this changing landscape.
- Airbnb is intending on optimizing its operations and strategies to ensure a swift recovery and capitalize on the resurgence in travel.

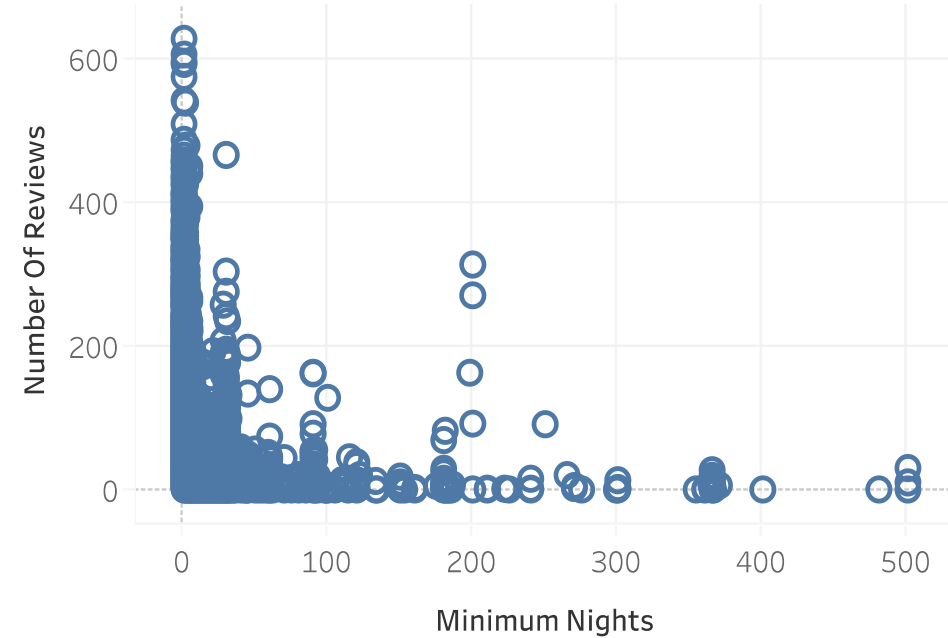
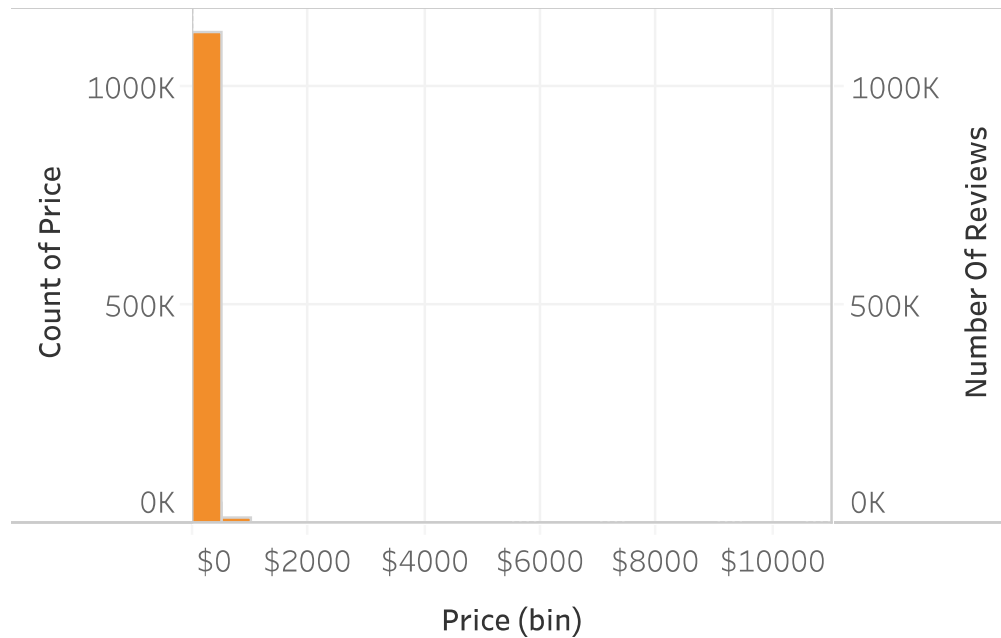
Type of hosts to acquire more and Neighborhood

In New York City, **Bedford-Stuyvesant, Brooklyn** stands out on Airbnb, drawing considerable attention. This neighborhood is distinguished by amassing a remarkable 20% of total reviews, largely due to the popularity of its 2038 **private room** listings.



Most Customers Favor \$500 or Less and Minimum One Night

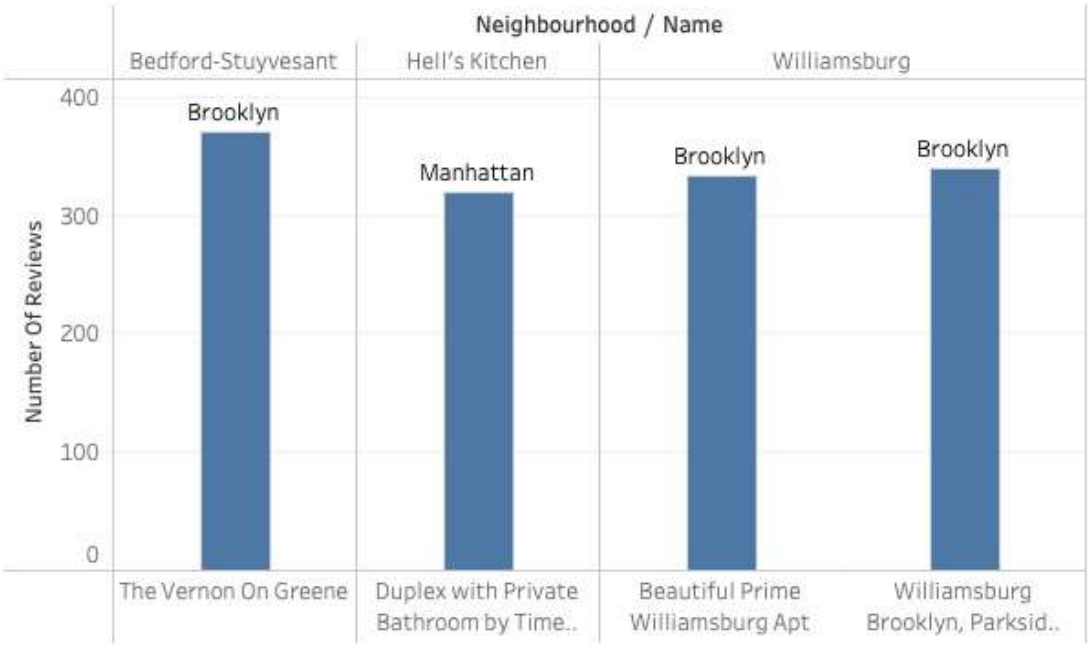
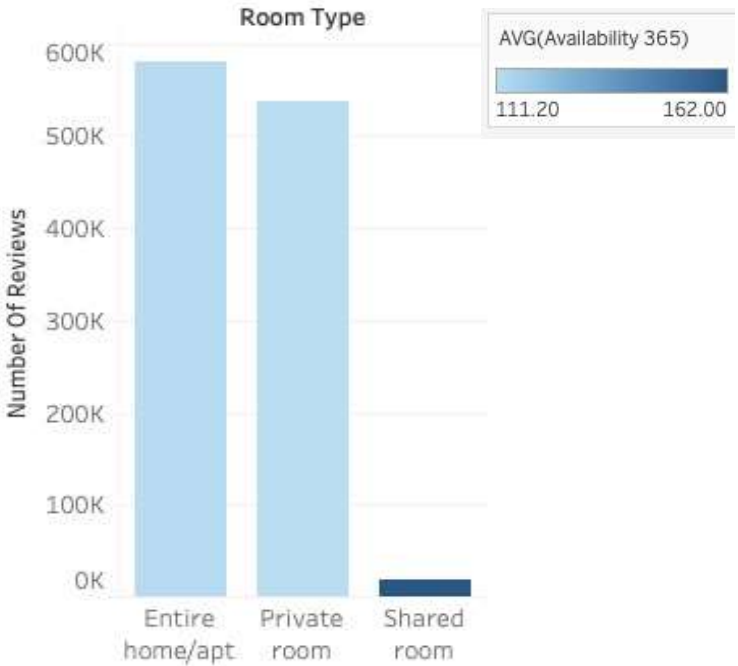
Most customers prefer accommodations priced between **\$0 and \$500**. Additionally, a prevalent trend reveals that customers commonly opt for a **minimum stay of one night**, indicating a consistent booking behavior.



Embrace Customer Preferences for Entire Home/Apartment, Private Rooms and Top NYC Hotspots

Customers show a strong inclination toward **Entire Home/Apartment & Private Rooms**, while there's notably **lower demand** for **Shared Rooms** among Airbnb users.

The top listings in New York City, according to customer interest, include **The Vernon On Greene, Duplex with Private Bathroom near Times Square, Beautiful Prime Williamsburg Apt,** and **Williamsburg Brooklyn Parkside Penthouse NYC View.**



RECOMMENDATIONS

- Prioritize Bedford-Stuyvesant for Property Acquisition and Marketing Efforts
- Tailor Pricing Strategies to Budget-Conscious Travelers
- Encourage Longer Stays with Attractive Packages
- Focus on Entire Home/Apartment and Private Room Listings
- Leverage Popularity of The Vernon On Greene, Duplex with Private Bathroom, and Beautiful Prime Williamsburg Apt

APPENDIX - Data Sources

Data Source: New York Airbnbs Dataset https://cdn.upgrad.com/uploads/production/bbf31a02-833b-43be-835d-b8d27753605f/AB_NYC_2019.csv

Note: The price column contains the price/night.

Column	Description
id	listing ID
name	name of the listing
host_id	host ID
host_name	name of the host
neighbourhood_group	location
neighbourhood	area
latitude	latitude coordinates
longitude	longitude coordinates
room_type	listing space type
price	
minimum_nights	amount of nights minimum
number_of_reviews	number of reviews
last_review	latest review
reviews_per_month	number of reviews per month
calculated_host_listings_count	amount of listing per host
availability_365	number of days when listing is available for booking

Categorical Variables:

- room_type
- neighbourhood_group
- neighbourhood

Continous Variables(Numerical):

- Price
- minimum_nights
- number_of_reviews
- reviews_per_month
- calculated_host_listings_count
- availability_365
- Continous Variables could be binned in to groups too

Location Variables:

- latitude
- longitude

Time Varibale:

- last_review

APPENDIX - Methodology

Data Acquisition and Understanding:

- Acquired the New York's Airbnb dataset relevant to the business problem.
- Analyzed and understood the dataset structure and content.

Data Cleaning and Preparation:

- Cleaned and pre-processed the dataset in Excel to address any inconsistencies or missing information.
- Prepared the dataset for visualization by transforming and organizing it into a suitable format.

Data Visualization and Insights Generation:

- Utilized Tableau to create various charts and graphs.
- Implemented relevant filters within the visualizations to focus on specific aspects of the data.
- Analyzed the visualizations and extracted key insights relevant to the business problem.

APPENDIX - Assumptions

- Airbnb's revenue prior to the COVID-19 pandemic was satisfactory.
- Airbnb has no immediate plans to expand into new territories within New York City.
- Airbnb's plans are formulated assuming that travel will rise again in the period after COVID-19.