

STUDENT: JOÃO PEDRO BORGES DE OLIVEIRA
Date: 22253262

Aat his place from the New York Airbnb Database

Introduction:

Data collected by Airbnb on available accommodations in New York City constitute the database used in this analysis. Airbnb is an online platform that connects people looking to rent out their properties or rooms to travelers looking for temporary accommodation. Location, prices, room types, availability and number of reviews are among the many pieces of information available in this database.

Database Description:

The 2019 New York Airbnb database is maintained by Airbnb itself. Therefore, the data used in the execution of this analysis were obtained from the website [Inside Airbnb](#). This is a public database provided by Airbnb itself. The launch date for this specific database may vary, as Airbnb regularly releases updated information about its listings on an annual basis.

Airbnb generally updates its databases regularly to reflect changes to listings, such as new properties, price changes and availability. However, this one in question was made available in 2019.

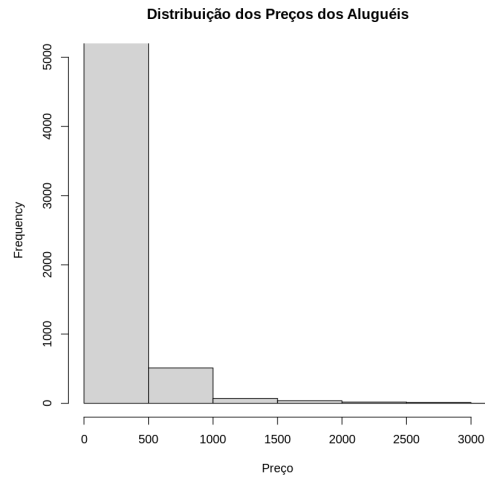
The purpose of this database is to provide detailed information on available rental accommodation in New York City prior to the COVID-19 pandemic. Each record contains a variety of variables that detail the accommodation's features and information relevant to potential travelers. The host's name, the property's identification, the neighborhood where it is located, the room type (for example, a whole apartment, a private room or a shared room), the rental price, the availability of the property throughout the year and the number of evaluations are some of the variables present in the database.

It is important to mention that, as the database is provided by Airbnb, terms of use and availability may vary. It is always recommended to consult the original source or Airbnb's terms of use for up-to-date information about the database and its specific purpose.

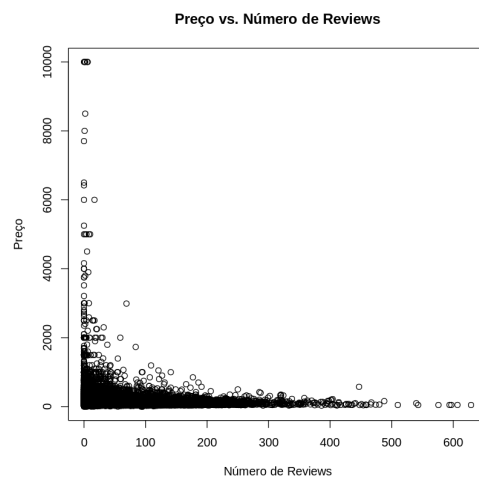
Data analysis:

We used the R programming language to perform an exploratory analysis on Airbnb's New York database to find patterns and trends in accommodation characteristics. To improve the understanding of the data during the analysis, we use statistics and graphical visualizations.

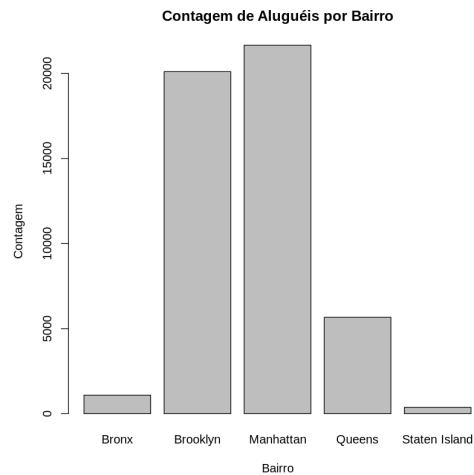
One of the first analyzes was the distribution of rental prices. We noticed that there is a wide variation in prices, reflecting the variety of options for travelers. We used a histogram to find that most accommodations are under \$400, which indicates that there are options for different budgets.



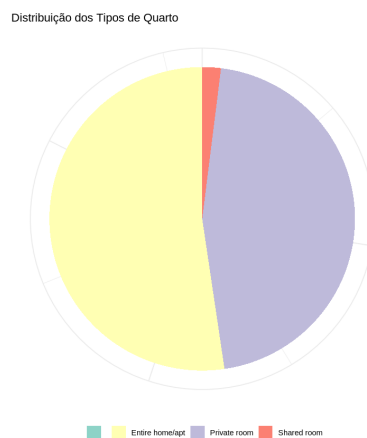
Additionally, we investigated how the number of reviews and the price of accommodations correlate. It is evident that there is no obvious correlation between these variables when plotting a scatter plot. However, it was possible to notice that the cheaper the hosting, the more ratings it has, because of the greater number of hosting.



To understand the distribution of listings, we performed a neighborhood analysis below. We've seen that neighborhoods like Manhattan and Brooklyn have a significant concentration of accommodation. The count of listings by neighborhood is shown in a bar chart, highlighting the preponderance of these areas in terms of accommodation offerings.



Furthermore, we investigated the distribution of types of rooms available in New York on Airbnb. We found that most lodgings are entire apartments, with shared rooms and private rooms following in order. To illustrate this distribution, we've created a pie chart that makes it easy to see the proportions of each room type.



Conclusion:

Analysis of the New York Airbnb database revealed a wide variety of accommodation options, with different room types and prices. Certain neighborhoods, like Manhattan and Brooklyn, proved to be more popular with travelers. This information is valuable for visitors who want to find accommodations that suit their needs and budgets. It is important to emphasize that this analysis is based on the specific database of Airbnb in New York and on the results obtained using R. The data and conclusions may be useful for travelers, property owners and researchers interested in the accommodation rental market. temporary.