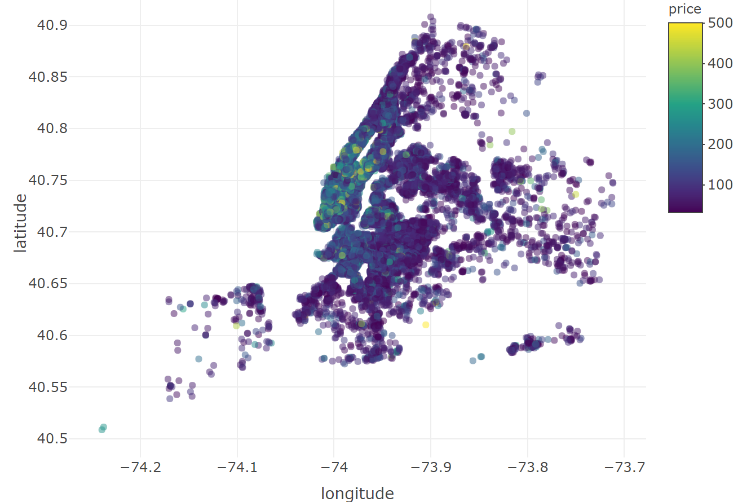
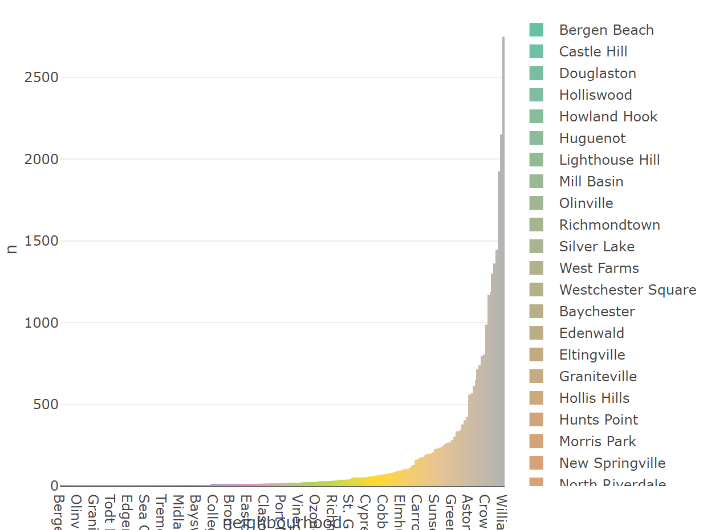
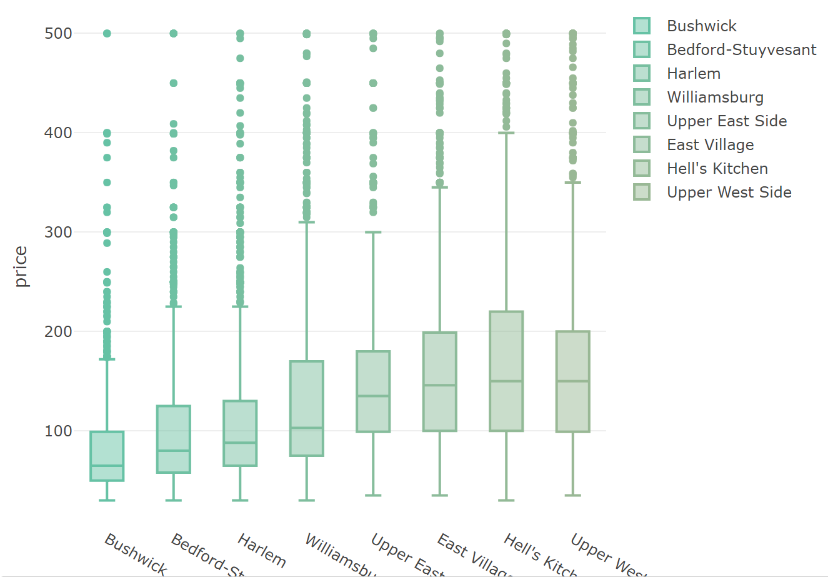
**Price Analysis and Borough Prediction of Airbnb housing in New York City**

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Countless tourists and students visit to explore all the attractions NYC has to offer as one of the largest cities in the world. Being a dynamic environment, the overall population of the city fluctuates daily. To handle the influx of individuals, information on available housing is extremely important. One of the most well-known housing companies is Airbnb. In this report, we analyze the Airbnb housing affordability and availability in each of New York City’s boroughs using the company’s released dataset in September 2017. The aim of this report is to provide clear visualization and meaningful interpretation of the data for convenience of visitors and all interested in the service of Airbnb.

\*\*\*Explain why the data is subset in this way\*\*\*

Housing is widely available through all five of the boroughs, however generally the closer to downtown Manhattan the property is, the more expensive the price per night as seen in Figure 1. Of the properties, the majority are in Williamsburg and Bedford – Stuyvesant, both of which are in Brooklyn, which are displayed in the bar plot of Figure 2. To explore further, Figure 3 displays the price range of the top eight most populated neighborhoods, which range of average from $50 to $150 and maximums of $500 and presumably over. To evaluate the relationship between the variables of the dataset, a correlation plot is created, which shows little important correlation between variables, which is good for modeling.

**Figure 2: Property Count**

**Figure 1: Price and Location in NYC**

**Figure 3: Top Neighborhood Prices**

Figures:

