

1. Use this article to answer the following questions:  
<https://realpython.com/numpy-scipy-pandas-correlation-python/>
  - a. In a jupyter notebook markdown cell, describe the difference between linear and rank correlation.
  - b. Create a scatter plot showing the relationship between `calculated_host_listings_count` and `availability_365` in the Belize Airbnb data
  - c. Calculate the correlation coefficient for the data in the scatter plot, and describe what is happening.
2. Create a box and whisker plot for the Belize Airbnb data price. In a markdown cell, describe what is going on in as simple of terms as possible. Use the documentation [https://matplotlib.org/3.1.1/api/\\_as\\_gen/matplotlib.pyplot.boxplot.html](https://matplotlib.org/3.1.1/api/_as_gen/matplotlib.pyplot.boxplot.html)