

Exercise: Graph Design

In this exercise you will be working with Tableau and the AirBnB dataset, which collects information about AirBnB listings in New York City. You can find information about the data here: <http://insideairbnb.com/get-the-data.html>. Look for the NYC listings file.

Instructions

For each of the questions provided below you have to built with Tableau a graph that provides an answer to the question.

1) Which areas in NYC have the highest/lowest number of listings?

IMAGE + DESCRIPTION

2) How does price distribute across different regions in NYC? Where are the areas with the highest and lowest prices?

IMAGE + DESCRIPTION

3) How does the prevalence of room types (use “Room Type”) change across the main boroughs? Are there any major differences on whether there are more entire apartments, private rooms or shared rooms?

IMAGE + DESCRIPTION

4) Is there a relationship between the price of a listing and the review score (use “Review Score Rating”)? Do listings with higher price tend to be rated with higher scores?

IMAGE + DESCRIPTION

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*Important Notes

In all of the questions above always consider how you can filter the data to make data patterns more intelligible. There are cases where you need to remove a few outliers (extreme values) before you start seeing something interesting. Make use of the “filter” function in Tableau.

In questions 1) and 2) there are many ways you can interpret the term “area” and “region”. The data set contains a few different attributes you can use to investigate areas (Zipcode, Lat/Lon, Neighborhood, Neighborhood Group). Find the combinations you deem more interesting and appropriate. If necessary produce more than one graph to emphasize different aspects of the same phenomenon.

In question 4) you will see that while it's not hard to come up with a first graph to investigate this question it's not easy to create an intelligible graph that shows some kind of pattern. You will probably have to explore a few different options before getting to something that works.