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Subject: Assignment 1, Describing and visualizing data

What is the effect of the distance to the nearest gallery on its listing price for each night, after accounting for the effects of the distance to the nearest subway station and room type in Manhattan, New York?

1. My unit of analysis is one Airbnb listing in Manhattan, New York.
2. My sample size is 21,598 Airbnb listings in Manhattan, New York.
3. My population of interest is all potential people who need to book Airbnb in Manhattan for their stay for different reasons including business trips, tourist trips, parties, etc.
4. The listing information can be accessed from the Airbnb application or website as a user, and the dataset is a compilation of multiple datasets found on a mission-driven project "Inside Airbnb" that provides data and advocacy about Airbnb's impact on residential communities.
5. My outcome variable is the Airbnb listing price.
6. My continuous variables are:
 - (1) Airbnb Listing Price: The expense of one night stay in an Airbnb listing.
 - (2) Vicinity of the Gallery: The distance from one Airbnb listing to its nearest gallery.
 - (3) Vicinity of the Subway Station: The distance from one Airbnb listing to its nearest subway station.
7. My categorical variable is the room type: The types of housing an Airbnb host can offer guests.
8. Data are compiled from the following sources:

Explore Inside Airbnb (<http://insideairbnb.com/explore>)

NYC OpenData (<https://data.cityofnewyork.us/Transportation/Subway-Stations/arq3-7z49>)

[Explore the Data](#)