

The Clusters of Los Angeles AirBnB

Team Name: Insert Team Name Here

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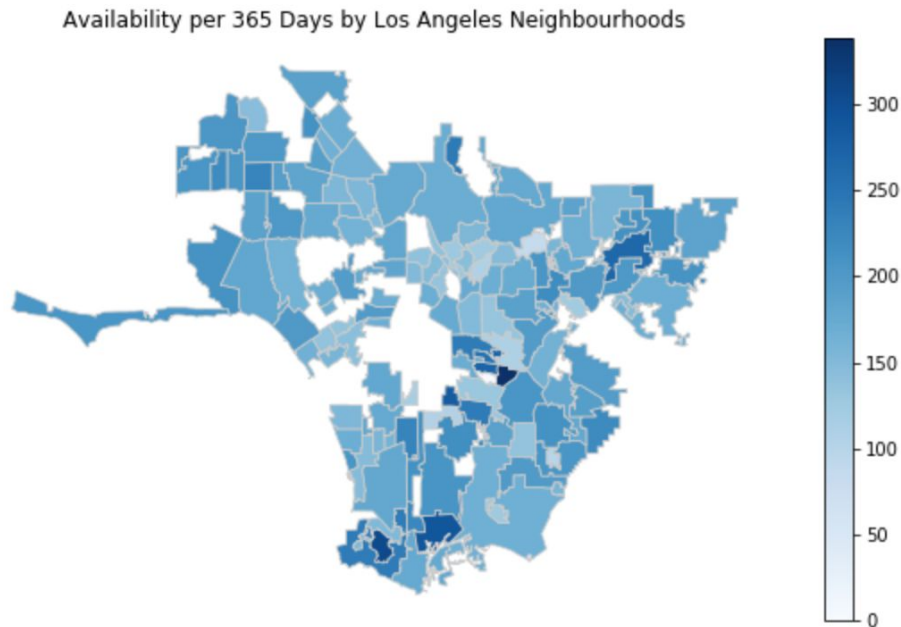
Introduction

- Want to cluster to see the patterns of AirBnB hosts
- Want to find out whether AirBnB hosts are abusing the platform
 - Use Airbnb as makeshift hotels and sell their rooms at a higher markup



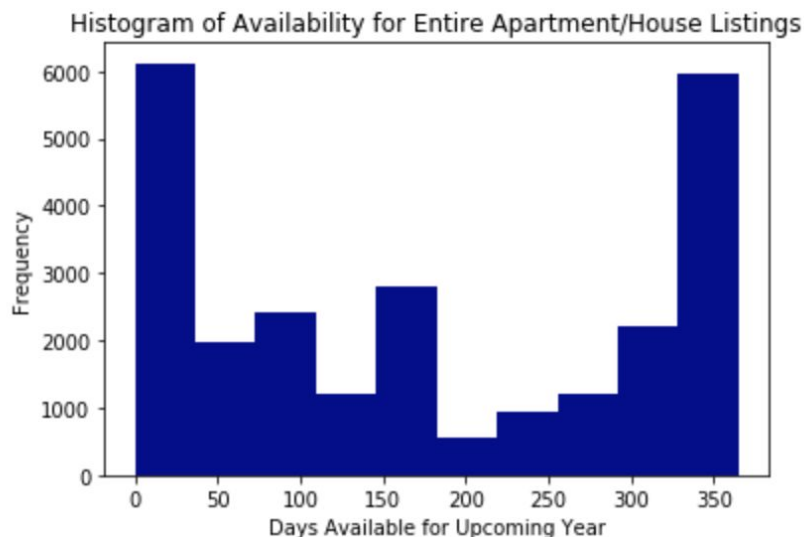
Descriptive Analysis

- Exploring the distribution of key variables we think would play important roles in separating out potential clusters
 - Room Type
 - Price
 - Listing Availability

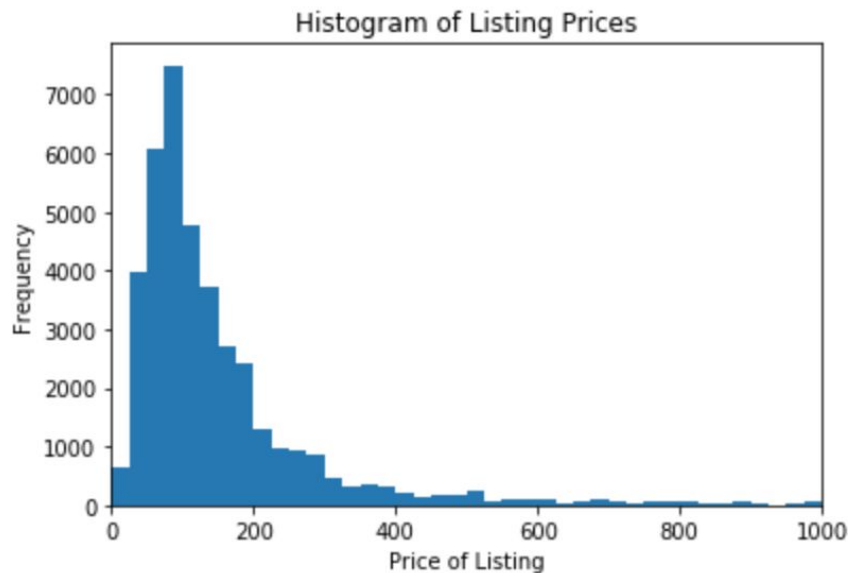


Source: Airbnb, 2018

Descriptive Analysis Cont.

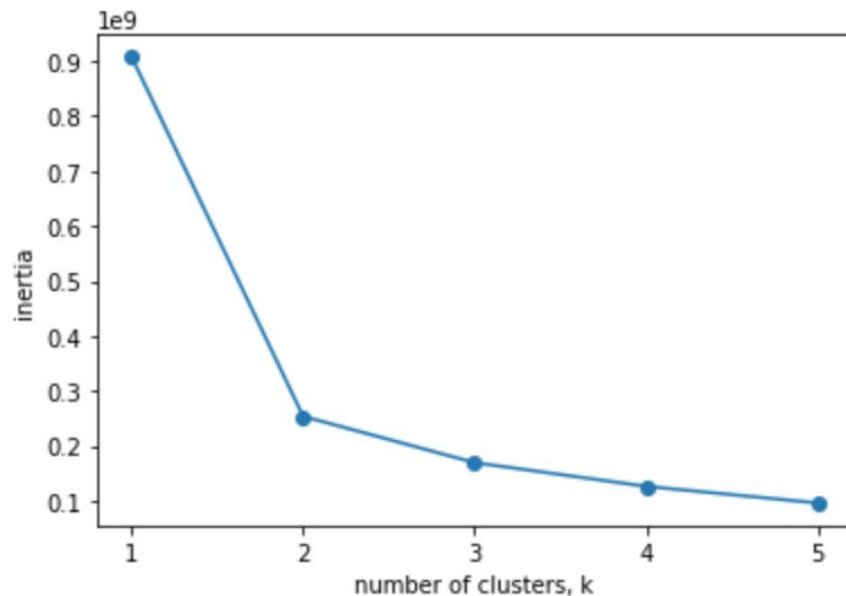


```
room_type
Entire home/apt    274.850191
Private room       90.607771
Shared room        51.750127
Name: price, dtype: float64
```



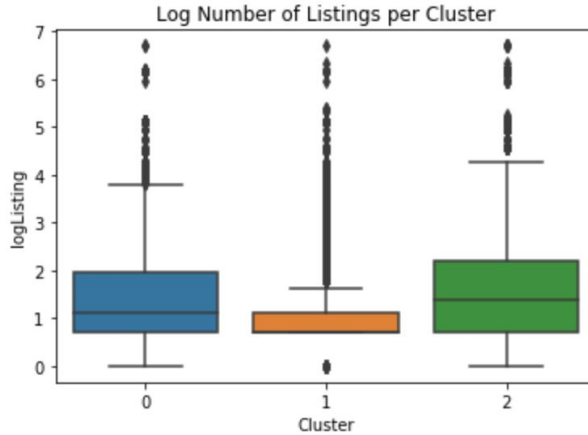
Modeling: K-means Clustering

- We ended up using 8 predictors to determine our clusters
- We chose to make 3 clusters



Results

- The amount of listings each host has per year is significant in clustering our data.



- The amount of listings per year for each host is significant

