

# LA Airbnb Text Analysis

Atif Farook

# Jason Chhay

Joshua Kong

# Raymond Astorga

# Richard Garcia

UCLA Statistics

# Introduction

Airbnb is a service that allows people to rent out homes, rooms, or other living arrangements. The owner creates their own listing that includes the characteristics and a description of the living arrangement.

## Analysis

Using text analysis on Airbnb descriptions, we created a LASSO model to predict a listings value. K-means clustering was used to determine how the prices would be split; \$139 or above is "high" value while everything else is "low" value. For validation, we used a 75-25 split to create test data.

## Results

We acquired an 80.5% accuracy comparing our LASSO model to the test data set.

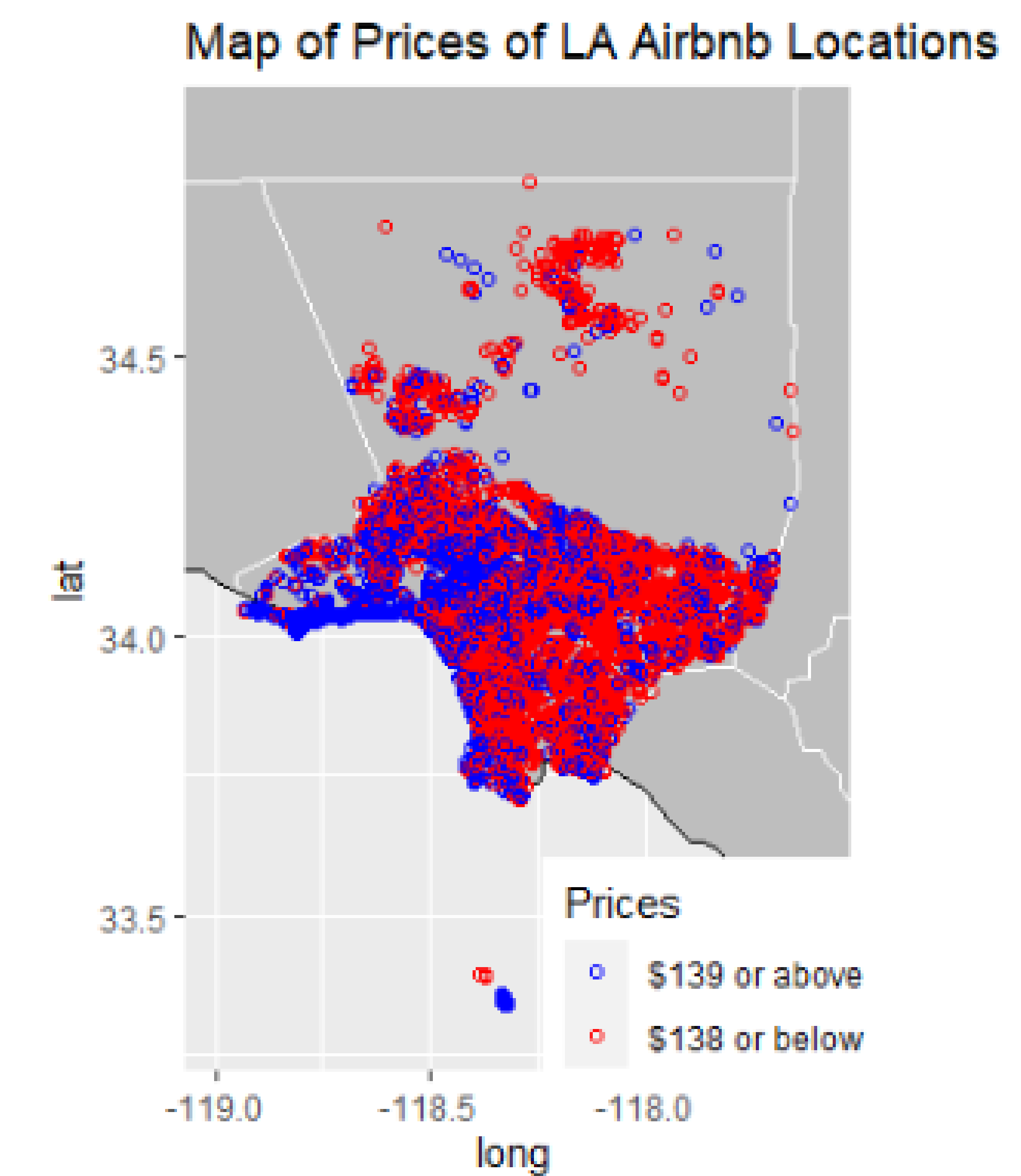
## Discussion

We could further develop our LASSO model by incorporating data from other cities as well as accounting for listings not in English.

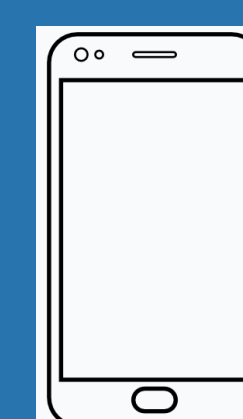
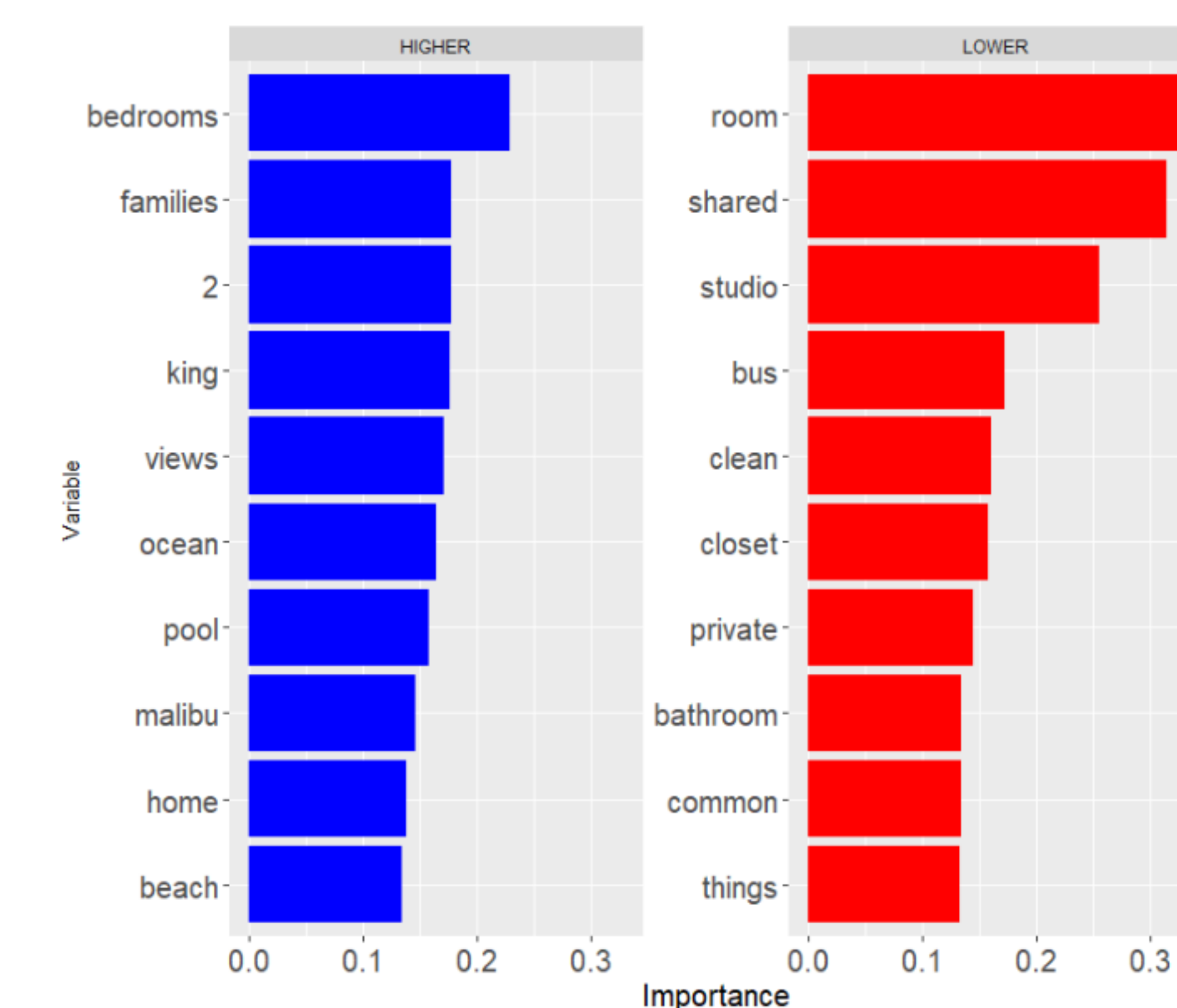


# Airbnb listing descriptions

## predict price



## Key Words



Take a picture to  
download the full paper  
(<https://github.com/joshkong91/Stats-140SL-Final>)