Group 7

Goal

We like barbecue restaurants, so we want to see what barbecue restaurant owners can do to improve their business based on their yelp reviews.

- 1. Type of barbeque? American/Mexican/Korean
- 2. Ambiance
- 3. Location and hours
- 4. Price
- 5. Parking
- 6. Outdoor or not

Data Cleaning

Original Data: n = 8.62 million reviews, m = 16 thousand businesses

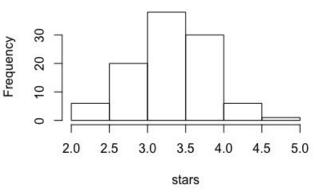
Goal: Explore business that serve Barbeque on Yelp and gather insights about the barbeque through yelp reviews

We achieve this goal by

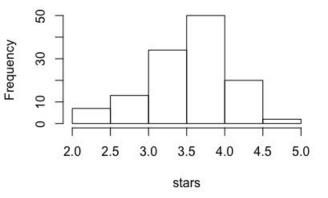
Filter business and associated reviews with keywords "barbeque"

n=247.896 reviews from m=1483 businesses

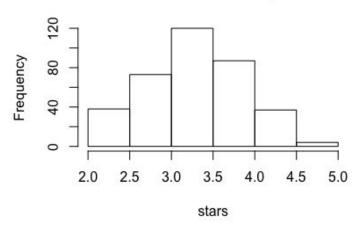
Chinese Barbeque



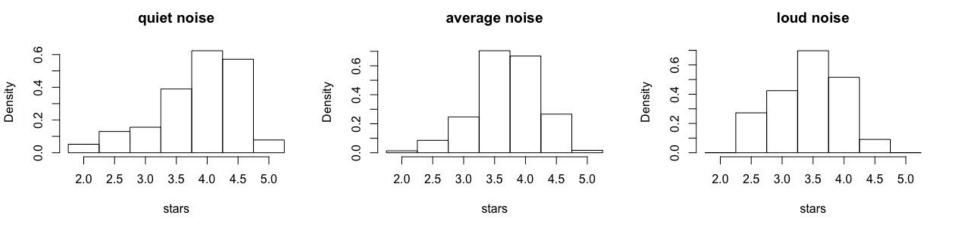
Korean Barbeque



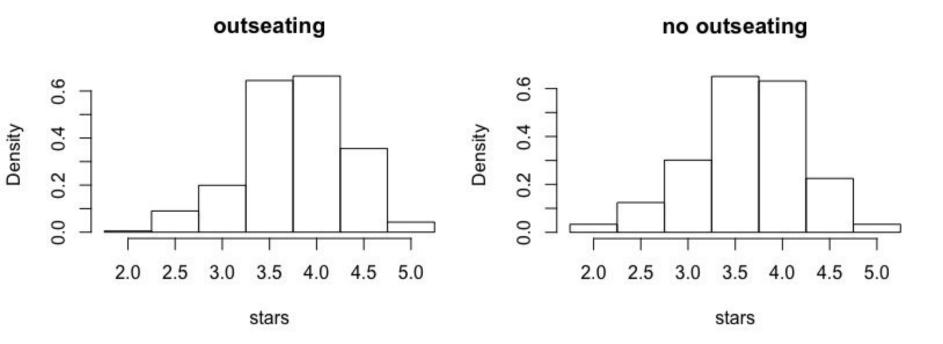
American Barbeque



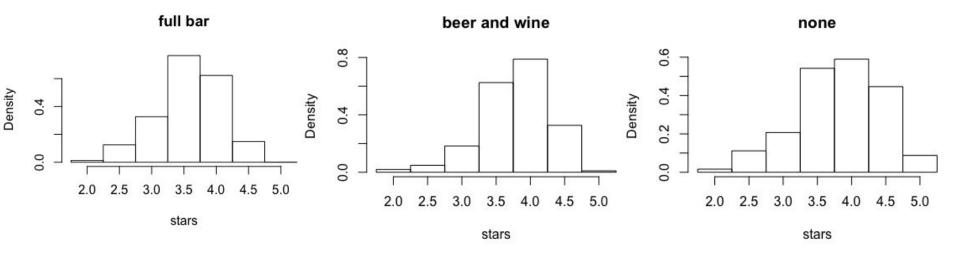
The anova test have a p-value of 1.24×10⁻⁷. This means category plays an important role in barbeque restaurants' rating.



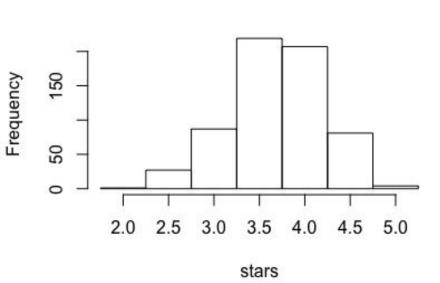
The anova test have a p-value of 4.89×10⁻⁵. This means noise level also plays an important role in barbeque restaurants' rating.



The t-test have a p-value of 2.766×10⁻⁴. Difference in mean is 0.14.

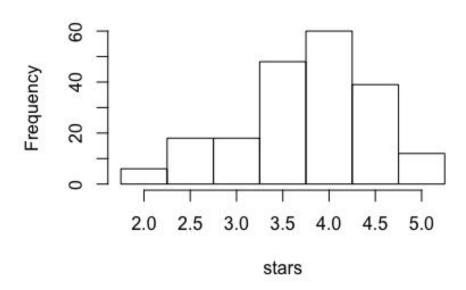


The t-test have a p-value of 4.69×10⁻⁷. This means alcohol plays an important role in barbeque restaurants' rating.



casual ambience

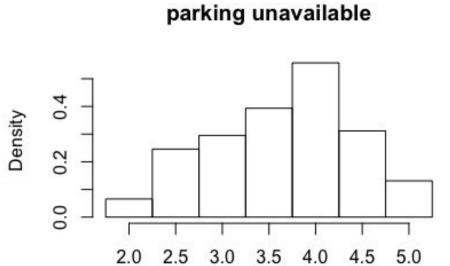




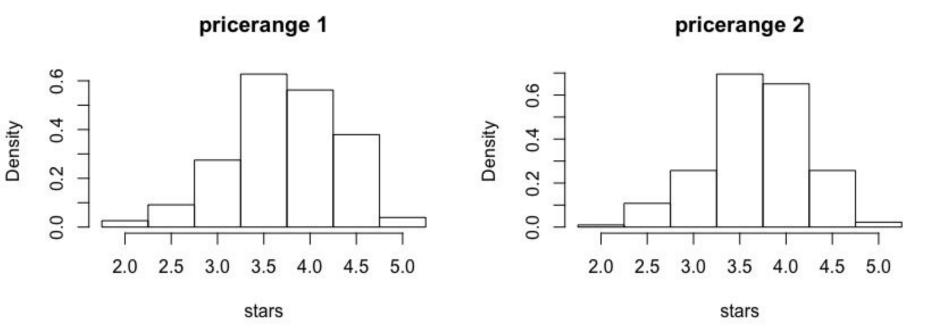
T test has a p-value of 0.24.



T-test has a p-value of 0.35



stars



T-test has a p-value of 0.39.

Further steps

- 1. Further analysis of factors(such as "noise", "outdoor") by using review dataset
- 2. Use review to do sentiment analysis
- 3. Analysis top 10 barbeque businesses with most five star reviews, and analysis each of them