

Hotel Review Analysis

Presented by: Hotelholics

Research Objectives

Our research analyzed hotel reviews and ratings based on regions of the United States

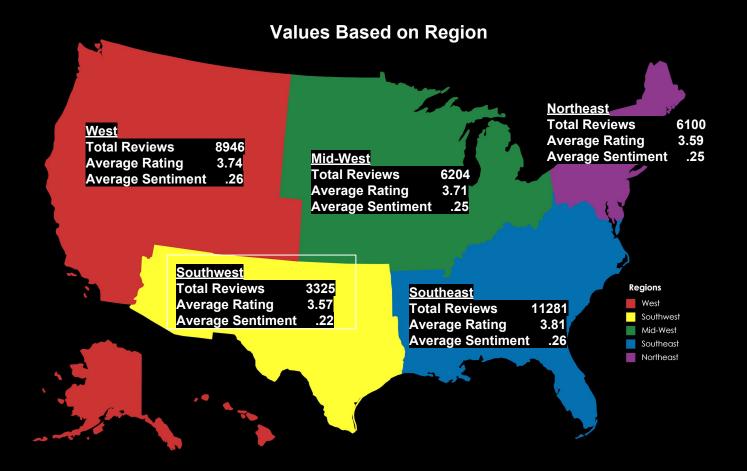
Questions Include:

- 1) What is the average rating and average sentiment for each region?
- 2) What is the average rating and average sentiment for each region during each season?
- 3) Which Hotels are the best and worst for each region?

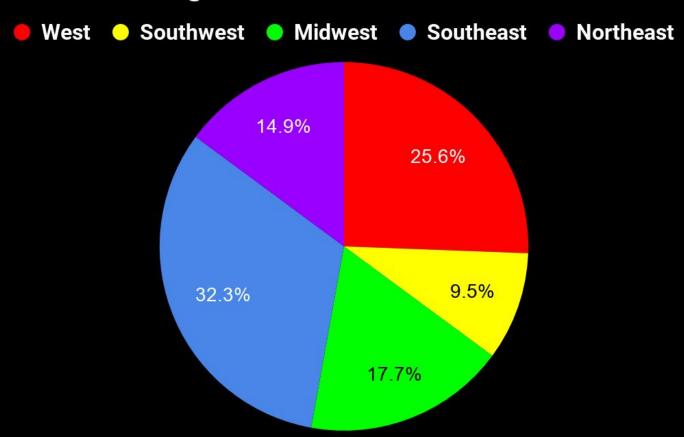


Average Rating and Sentiment for Each

Region

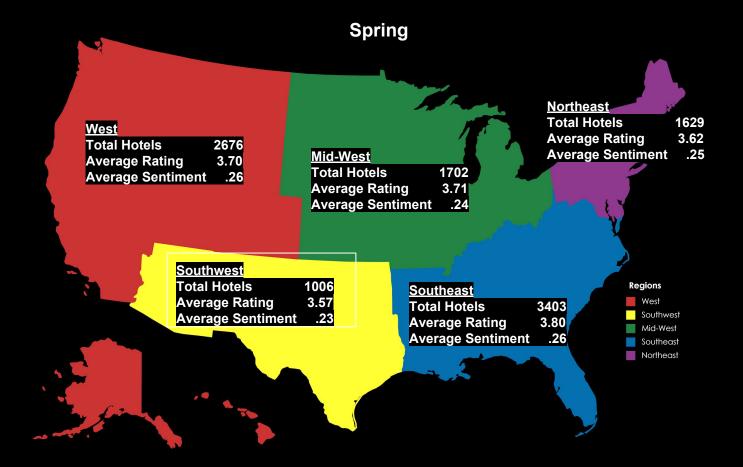


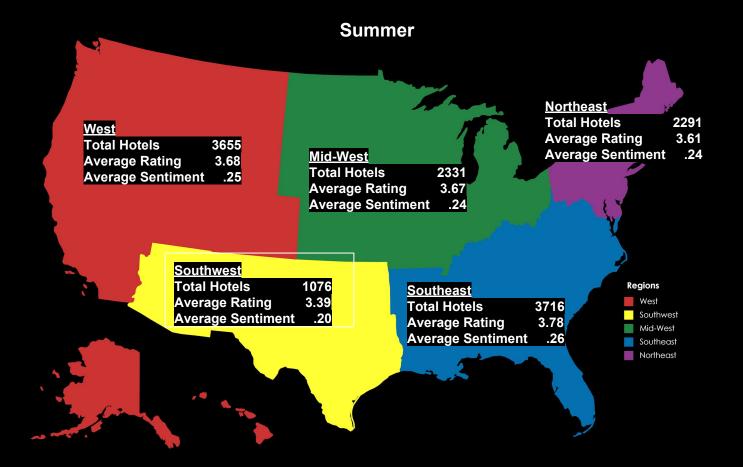
Reviews in each Region

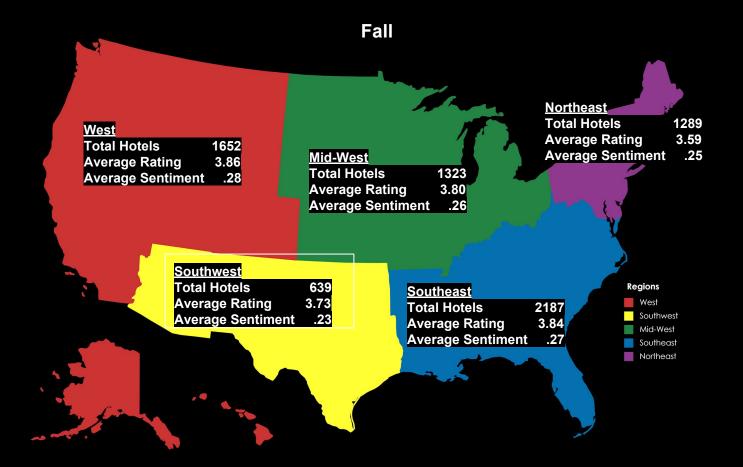


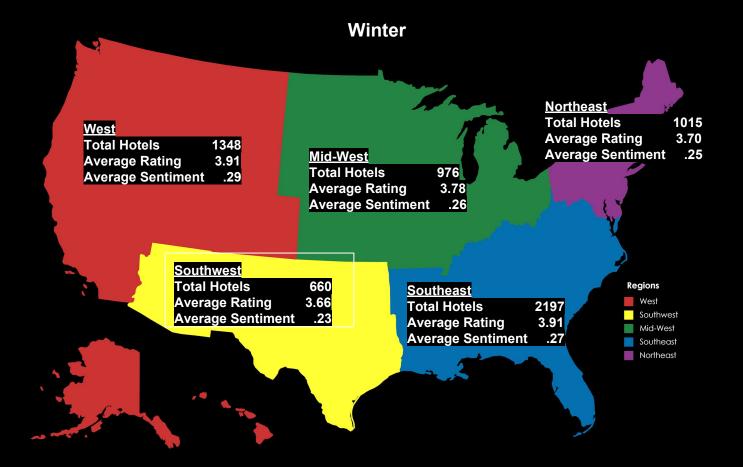
During Each Season

Average Rating and Sentiment for Each Region









Best and Worst Hotels for Each

Region

How we determined Best and Worst Hotels

- Only hotels that had ≥ 100 reviews were considers
- Best and Worst hotel were based on average of:
 - The Probability a hotel will receive a 5 Star Rating
 - b. The Probability a hotel will receive a Sentiment Rating between 0.50 and 1.00
- Norm.cdf function was used to achieve probability ratings



Best in the West Region:

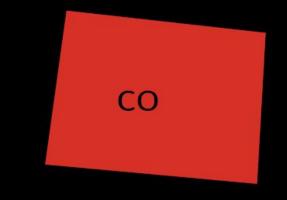
Simpson House Inn Santa Barbara, CA

Total Review	126
Average Rating	4.75
Average Sentiment	.39
Probability of 5 star rating	36.52%
Probability of good review	31.54%



Worst in the West Region:

Day's Inn & Suite Castle Rock,CO





Total Review	102
Average Rating	3.66
Average Sentiment	.28
Probability of 5 star rating	12.20%
Probability of good review	16.85%



Best in the Southwest Region:

Lakeway Resort Austin, TX

Total Review 122

Average Rating 4.41

Average Sentiment .39

Probability of 5 star rating 33.40%

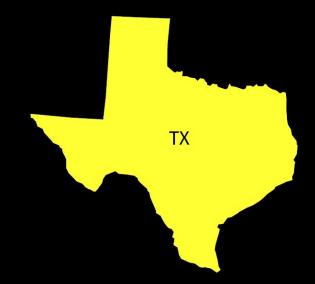
Probability of good review 29.88%



Worst in the Southwest Region:

Fiesta Inn & Suites San Antonio, TX





Total Review	546
Average Rating	1.45
Average Sentiment	11
Probability of 5 star rating	0.01%
Probability of good review	3.31%



Best in the Mid-West Region:

Four Seasons Hotel St. Louis, MO

Total Review	107
Average Rating	4.70
Average Sentiment	.38
Probability of 5 star rating	34.85%
Probability of good review	27.22%



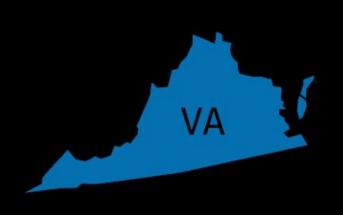
Worst in the Mid-West Region:

Red Roof Inn Cedar Rapids, IA





Total Review	107
Average Rating	2.18
Average Sentiment	.11
Probability of 5 star rating	1.07%
Probability of good review	12.03%



Best in the Southeast Region:

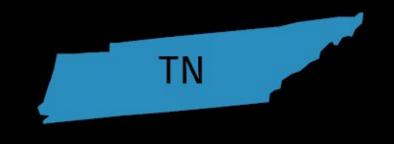
The Alexandrian Alexandria, VA

Total Review	1185
Average Rating	4.48
Average Sentiment	.35
Probability of 5 star rating	26.12%
Probability of good review	27.18%



Worst in the Southeast Region:

Microtel Inn Knoxville, TN





Total Review	101
Average Rating	2.84
Average Sentiment	.15
Probability of 5 star rating	4.17%
Probability of good review	9.98%



Best in the Northeast Region:

Bayside Resort Hotel West Yarmouth, MA

Total Review	152
Average Rating	4.16
Average Sentiment	.33
Probability of 5 star rating	26.10%
Probability of good review	22.16%



Worst in the **Northeast Region:**

Days Inn & Suite Albany, NY





Total Review	111
Average Rating	2.03
Average Sentiment	.01
Probability of 5 star rating	0.85%
Probability of good review	7.00%

Conclusion