

Bachelorette Season 19

Twice the Bachelorettes, twice the drama?

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What is the deal with The Bachelorette?

- ★ 19 seasons in total; sister show to The Bachelor (which has 26 seasons)
- ★ ABC owned reality dating show
- ★ 1 bachelorette and a pool of romantic interests
- ★ Endstate is a potential husband for bachelorette
- ★ This season makes HISTORY there are TWO Bachelorettes (Rachel & Gabby)
- ★ Does this mean twice the drama?





Goal

Explore how ABC paints the arc of the show across the season and also within each episode.

01

02

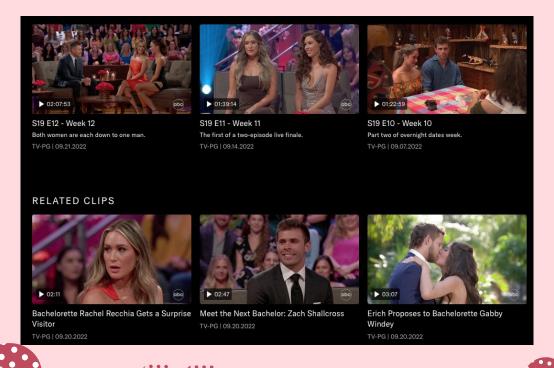
Data
Collection +
Cleaning

Exploratory Analysis

03Textual
Analysis



Contextual Breakdown



- ★ 11 episodes
- ★ Ea episode is ~80-95 mins (no ads)
- ★ As the season progresses, men get eliminated and relationships "deepen" to hopefully end in an engagement
- ★ Most episodes contain a mix of 1:1 dates and group dates

Data Collection

- ★ Text from each episode was downloaded from: opensubtitles.org
- srt files transformed into manageable database
- srt files = plain text file that contains start and end timecodes of text and sequential number of subtitles
- ★ Does not contain speaker name identifiers

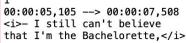


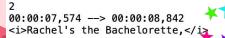
Data Cleaning

2022-10-04

00:00:00

intro





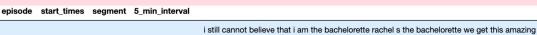
```
00:00:08,909 --> 00:00:11,044
<i>we get this
```

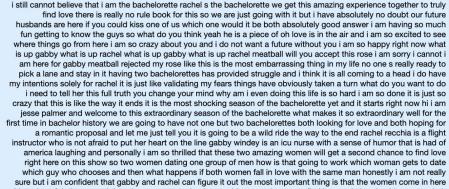
```
amazing experience together</i>
```

```
00:00:11,111 --> 00:00:13,046
<i>to truly find love.</i>
```

00:00:17,317 --> 00:00:19,186 <i>- There's really no rule book for this,</i>

00:00:19,253 --> 00:00:20,888 <i>so we're just going with it.</i>







- Text Pre-processing
- 5 minute interval segments of all text





Exploratory Analysis I

What were the most common words?







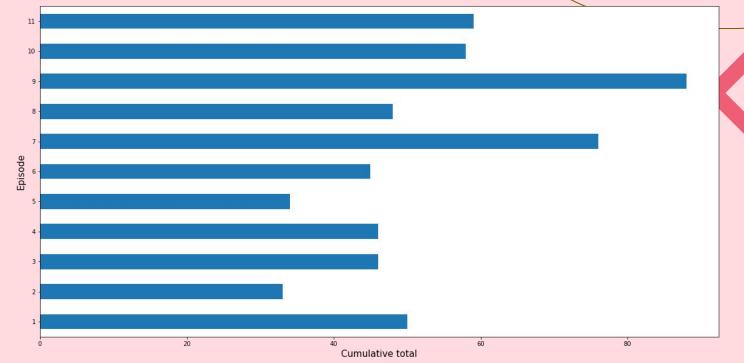


Exploratory Analysis II

How often does "love" get said as the season progresses?



- Episode 7 = hometowns
- ★ Episode 9 = overnights
- ★ Episode 11 = finale

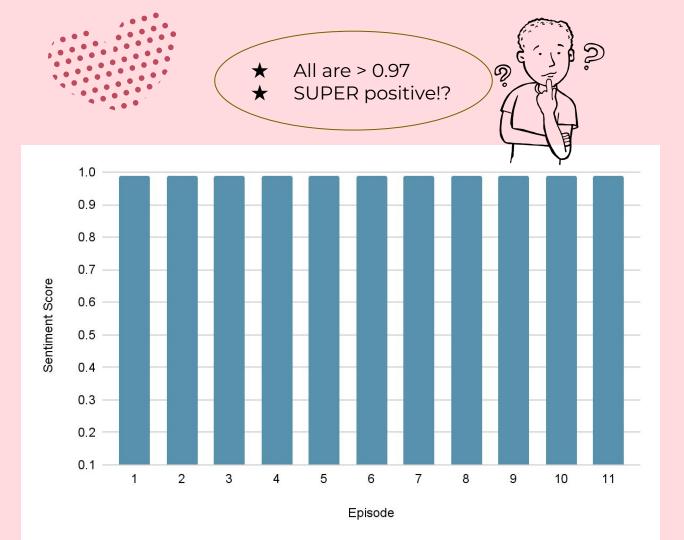


Textual Analysis I

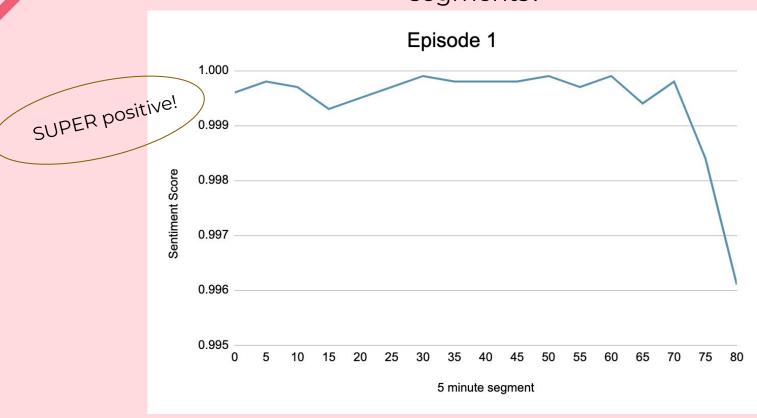
What was the emotional tone of each episode?

Range is -1 to 1 (the higher the more positive)





segments?

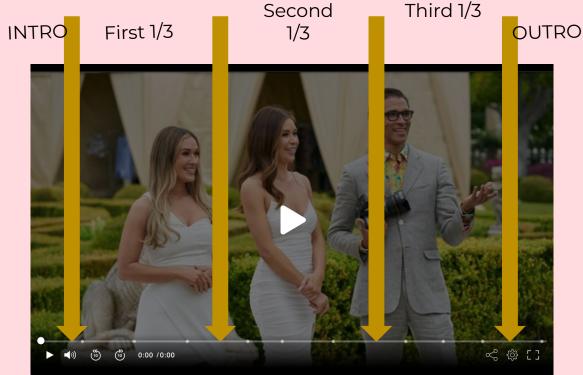


Textual Analysis I What was the emotional tone of each episode, across 5 min segments?



Textual Analysis

What themes exist within the segments of the show?



Combined these segments across all episodes

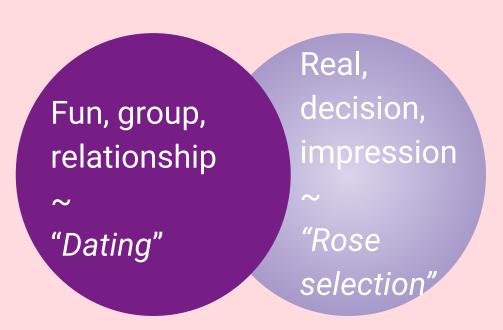


Textual Analysis II

After 24 topic models run, model #8 with two topics made the most sense!

Behind the Scenes:

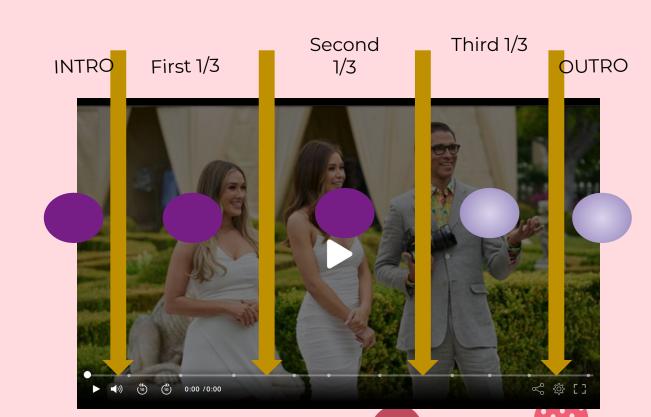
- Only nouns, adjectives, and plural nouns
- Words that appeared in less than 25% of documents were removed
- Words that appeared in more than 80% of documents were removed



Textual Analysis II Let's take a look at these topics to see which segments belong to which topic

Topic 1 "Dating"

selection"





So, was it twice the drama?

- Not much drama! Positive sentiment overall
- Hard to say without comparison to single Bachelorette season
- Drama could get lost in the text (i.e., no delineation on who said what)
- Based of my own viewing of entire season, most drama happened in the final 1-2 episodes







Future Work



Lemmatize Text



Topic modeling across each episode x segment

Topic modeling across episodes

Re-segment time intervals

Thanks!

QUESTIONS?

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