

**"THERAPY FOR THE
STRANGE AND UNUSUAL"**

- Complete with case and high sensitivity microphone
- Wry turned tape threading



The Project

- Used web scraping to get the text for all episode scripts
- Cleaned those scripts so they could be analyzed
- Analyze the text
 - Using the Natural Language Processing Library (NLTK) TextBlob
 - Simple counts
- Visualized these results using various plots

Web Scrapping

- Each script was located at a URL of the same format
 - [www.thebrightsessions.com/episode-\[episode#\]](http://www.thebrightsessions.com/episode-[episode#])
 - Ex. <http://www.thebrightsessions.com/episode-1>
- Used the Python library BeautifulSoup to access each episodes page and extract the script text
- Put this text into a file to be accessed later

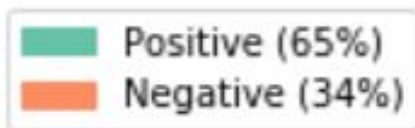
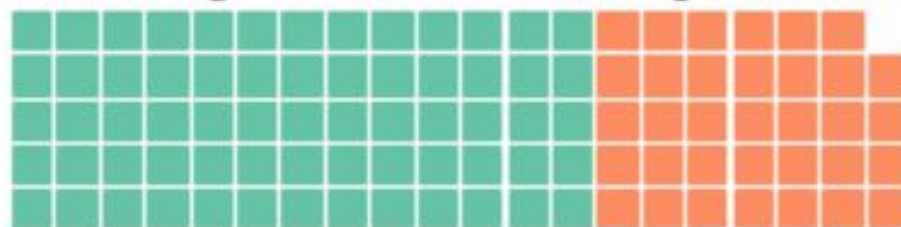
Cleaning and Organizing the Data

- Reorganize some parts of the script so that the format was consistent
 - Two Possibilities:
 - Speaker : Line Spoken
 - [Effect]
- Removed all punctuation and converted all words to lowercase
- Put this data into a Pandas DataFrame so that it can be manipulated easily

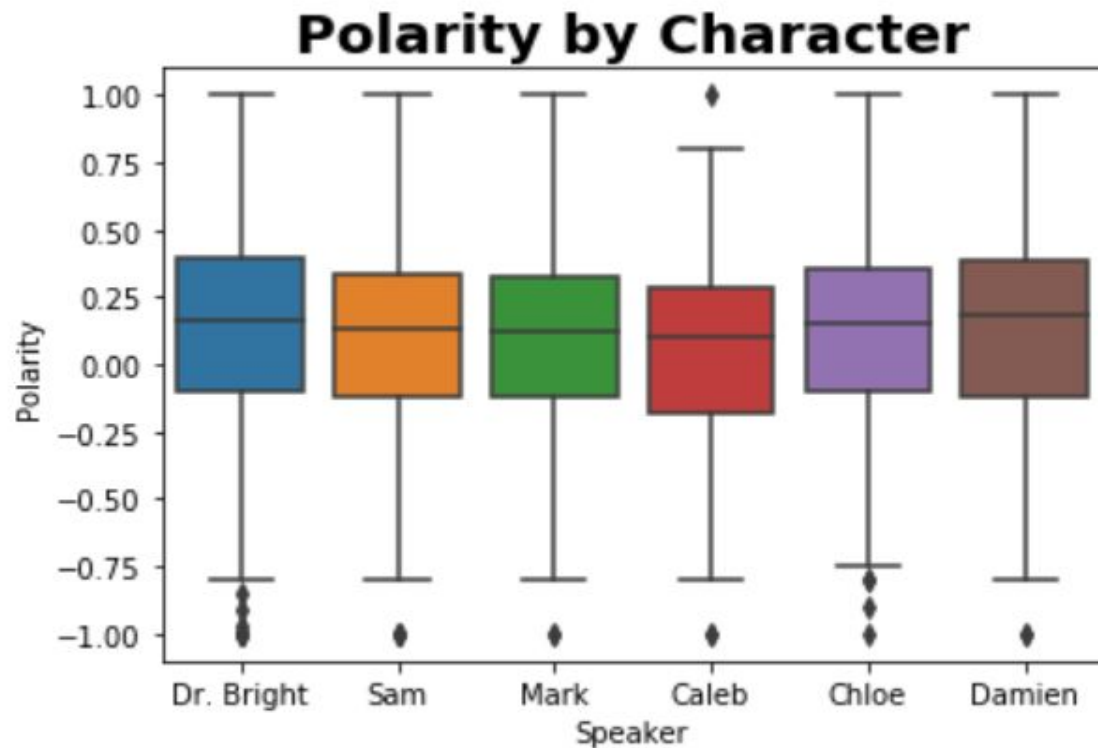
Analyzing the Text

- TextBlob finds the sentiment of a piece of text
- Sentiment is divided into (polarity, subjectivity)
 - Polarity - from $[-1, 1]$ with negative numbers indicating a negative connotation and positive numbers indicate a positive connotation.
 - Subjectivity - from $[0, 1]$ where the closer this number is to 1 the more opinionated this text is.

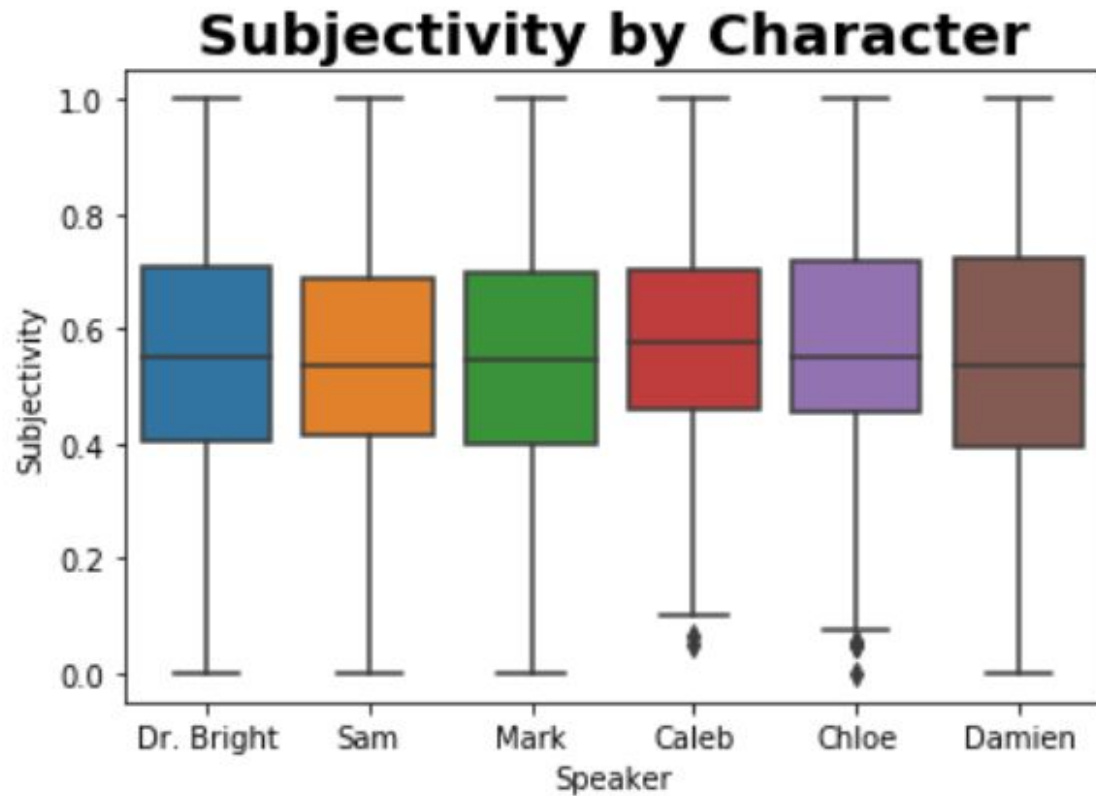
Percentage of Positive and Negative Lines



Visualizations



Visualizations



Visualizations

Spoken Lines by Each Character



Visualizations

Looking into the Sentiment Analysis

Examples of Lines Classified with Postive Polarity:

1 episode-48: learned from the best
2 episode-12: im very happy to see you sam ive been worried about you ←
3 episode-42: its the greatest feeling in the world
4 episode-45: the best dont forget that while im gone
5 episode-56: chloe what are you doing here its wonderful to see you how are you
6 episode-30: wonderful now lets get started on this questionnaire shall we
7 episode-28: its perfectly alright hows school going
8 episode-17: wonderful be a doll get me a croissant will you
9 episode-56: i will i must say im very impressed
10 episode-52: i just wonder if this is the best thing for her shes distracted i dont want her to make any rash decisions

Examples of Lines Classified with Negative Polarity:

1 episode-46: god you look terrible
2 episode-1: its horrible
3 episode-53: no no its alright youre always preparing for the worst i get it
4 episode-35: yeah this is sort of your worst nightmare isnt it
5 episode-53: no it was terrible you knew it was terrible and you wanted to hang it anyway
6 episode-38: you are awfully arrogant director wadsworth
7 episode-17: he is not a toy for gods sake no one was going to snatch him up and use him for some evil plot - you all had already taken care of that
8 episode-31: god i missed you weirdos my summer was so boring ←
9 episode-54: owen thats uncharacteristically ruthless of you
10 episode-46: that place is horrible