

## Introduction

#### Motivation:

- Disney wants to take a deeper look at what audiences think of the new movie Shang-Chi.
- I've been tasked to see what audiences are talking about.

#### Objective/Goals:

- Generate topic model from looking at audience reviews
- Sentiment analysis of reviews to see what topics are being discussed in positive and negative reviews



## Methodology

01

#### Data

• 2,000+ audience reviews from Google reviews

02

### **Metrics**

- Document polarity
- Topic Correlation



04

### Tools & Models

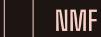
- BeautifulSoup & Selenium
- Preprocessing tools(NLTK, Spacy,TextBlob)
- NMF & Corex



Beautifuloup

spaCy

## Results



 Strong topics not formulated, but some words seemed worth exploring



Use of anchor words helped solidify topics



 Action sequences, Plot, Cast, Asian Culture



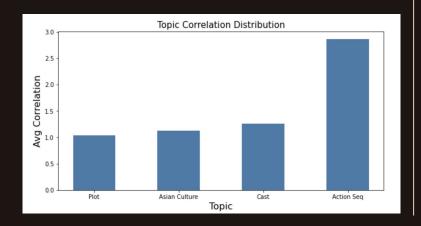
## **Polarity and Topic Correlation**

#### **Polarity**

 Obtained polarity for each document to determine if review was positive or negative

#### **Topic Correlation**

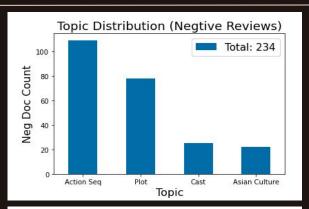
• TC Dist → Topic Correlation

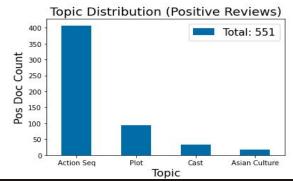


## Results

 Overall, both positive and negative reviews centered around action sequences and plot







## **Examples**

# STRENGTHS

- Asian Culture (Positive)
  - "It was visually awesome and it enlightens a lot about Taiwanese and Chinese culture."

# WEAKNESSES

- Plot (Negative)
  - "Outrageously bad it is difficult to give it one star."
- Action Sequence (Positive)
  - "Brilliant movie IMax is a must."



## Conclusion

- Audiences generally only talk about a few topics.
- Some reviews don't really have "topics" at all





## **Future Work**



- Take a look at critic reviews instead of audience reviews. They may give more informative topics
- Take a different approach when assigning topics (i.e allowing a document to be more than one topic, or discard if not related to any topics)
- Take a closer look at neutral reviews as they might be a combination of negative and positive

