

# Captain Marvel Sentiment Analysis Comparison

Sierra King | Northwest Missouri State University

## Problem

Is there a difference in the sentiment analysis of tweets gathered from Twitter and reviews gathered from Rotten Tomatoes?

## Background

- The idea behind this project was to use my previous project and build on it. So with that, I decided I wanted to continue using sentiment analysis and captain marvel which gave me the idea to scrape rotten tomatoes reviews after the scandal that rotten tomatoes had removed thousands of negative comments hours before the opening showing.

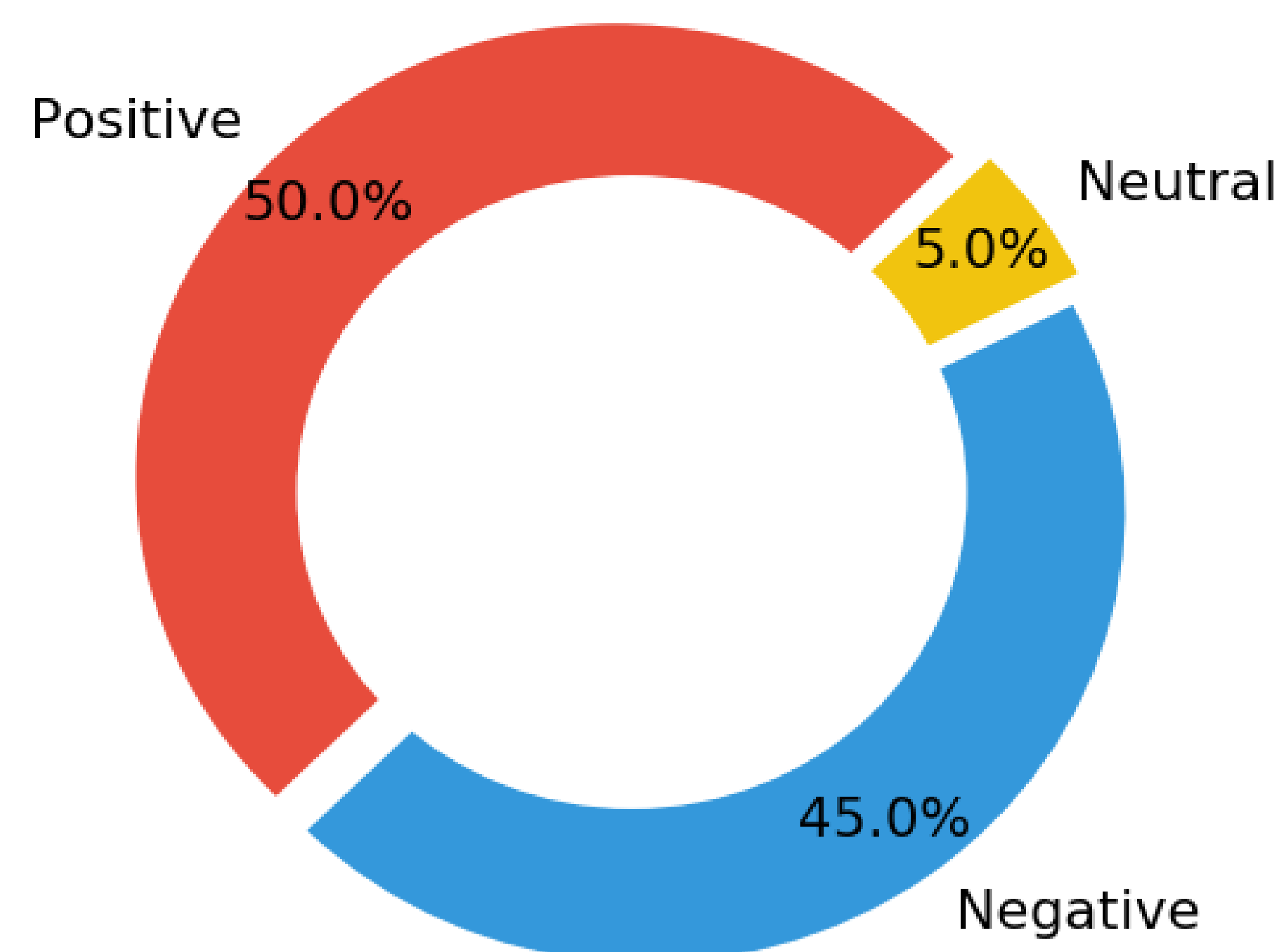
## Method

- Used Twitter API to gather the twitter tweets using the hashtag #captainmarvel
- The reviews from Rotten Tomatoes were gathered by web scraping using BeautifulSoup on the Captain Marvel page



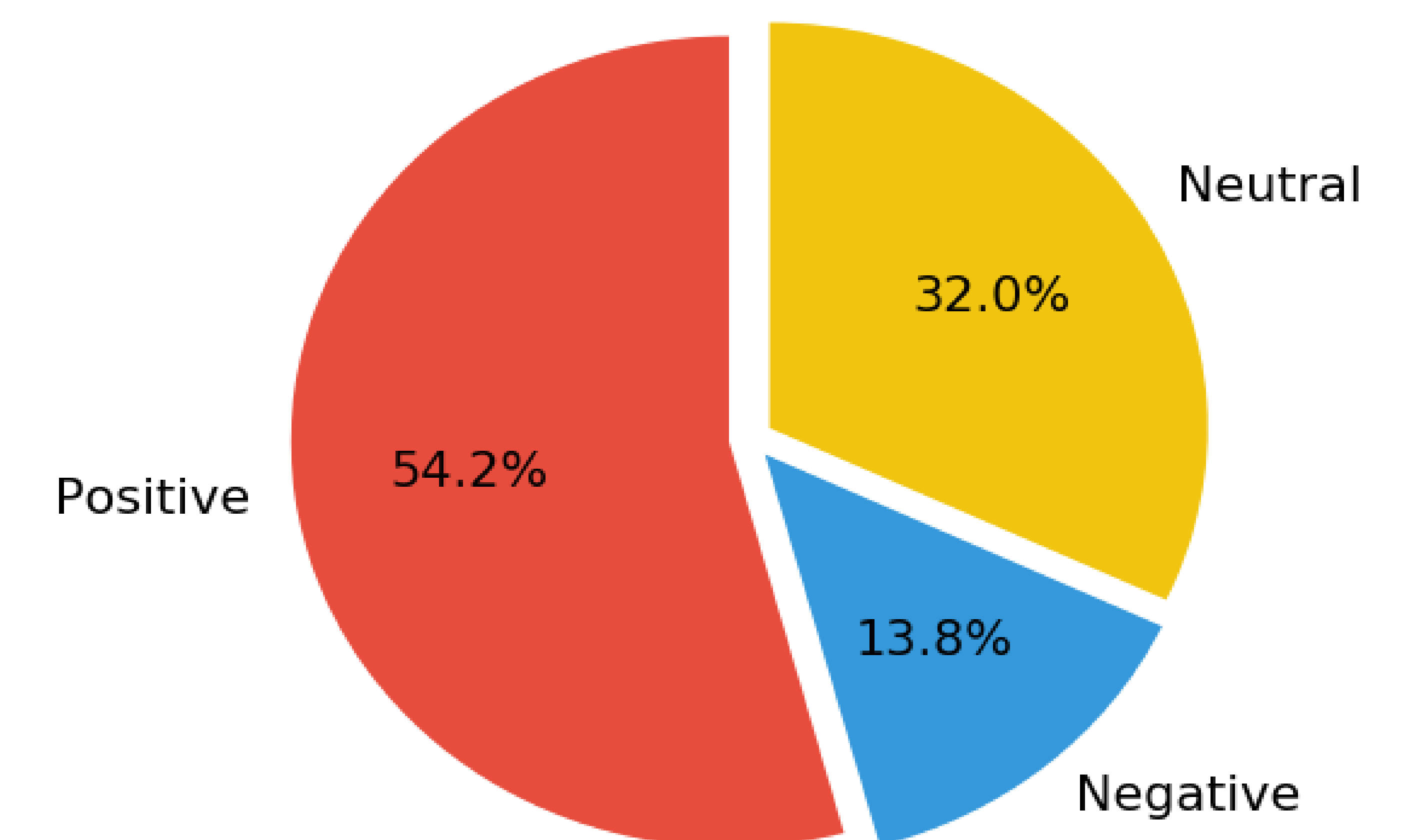
## Results

### Rotten Tomatoes Reviews



- Most positive review:** 0.976 Captain Marvel is a fantastic prequel and fits perfectly into the timeline it is a fun joyous film with good humor!
- Most negative review:** -0.892 Can we please stop removing my review? I love the MCU, but she (Brie Larson) legitimately was terrible in this movie. Censoring people in a public forum is tantamount to violation of my 1st Amendment Rights! Just because RT is in bed with Disney doesn't mean the movie must be amazing. You're going to lose visitors by doing this, and risk a law suit if it continues. Signed, A real person not brigading a good movie, but pointing out a terrible one. -Mike Nims P.S. I'm sharing this.

### Twitter Tweets



- Most positive review:** 0.976 @brielarson YOU ARE AMAZING. I LOVE YOU I LOVE CAROL I LOVE THIS MOVIE. O MY GOD I CAN'T WAIT TO WATCH ENDGAME #CaptainMarvel
- Most negative review:** -0.953 #CaptainMarvel was without a doubt the worst MCU movie of all time. Holy shit. This was so boring and retarded I almost legit fell asleep.

## Conclusion

- Based on the results, the reviews from Rotten Tomatoes were much more negative than the Twitter tweets. The Rotten Tomatoes had a 45% negative rated reviews and the Twitter tweets were 13.8% negative. There was about the same percentage of positive reviews from both Twitter and Rotten Tomatoes. The Twitter tweets had a large percentage of neutral rated tweets.
- This does support my question on whether there would be a difference in the Sentiment Analysis when comparing reviews from Twitter and Totten Tomatoes.