

YouTube Sentiment Analysis

John lan Castaneda

Table of Contents

| Descrip | tion | 2 | | | |
|---------|---|----|--|--|--|
| Objecti | ves | 2 | | | |
| Steps | | 2 | | | |
| The Dat | ta | 2 | | | |
| Γools | | 2 | | | |
| Data Cl | eaning and Pre-processing | 3 | | | |
| Explora | itory Data Analysis | 3 | | | |
| | Top performing videos by viewCount | | | | |
| | Worst performing video by viewCount | | | | |
| 3. | Average view count of videos | 5 | | | |
| 4. | Distribution of viewCount (visualization through Python) | 5 | | | |
| | Videos with the most comments | | | | |
| 6. | Videos with the least comments | 6 | | | |
| 7. | Average number of comments | 7 | | | |
| | Video comments per 1000 views | | | | |
| 9. | Distribution of commentCount (visualization through Python) | 8 | | | |
| 10. | Videos with the most likes | 8 | | | |
| 11. | Days of the week that videos are posted | 9 | | | |
| 12. | Day of week videos were published and their current view counts | 9 | | | |
| 13. | Average duration of videos in minutes | 10 | | | |
| 14. | Day of the week when comments are posted | | | | |
| 15. | Average number of words in comments for all videos | 10 | | | |
| 16. | Top 10 videos with the highest average number of words in comments | | | | |
| 17. | Videos with the top 10 comments with the most number of words | 11 | | | |
| 18. | Top 10 viewers with most comments on videos | 12 | | | |
| 19. | Correlation of viewCount, likeCount, commentCount, duration, tagCount, and comment_view_ratio | 13 | | | |
| 20. | Scatterplot of viewCount against commentCount, likeCount, tagCount, and durationSecs | 13 | | | |
| 21. | Word Cloud | 14 | | | |
| Sentim | ent Analysis | 15 | | | |
| Over | all Sentiment | 15 | | | |
| Top 2 | 10 videos with the highest percentage of positive comments | 16 | | | |
| • | 10 videos with the highest percentage of neutral comments | | | | |
| Top 1 | 10 videos with the highest percentage of negative comments | 17 | | | |
| Top 1 | 10 users with most positive comments | 17 | | | |
| Top 2 | 10 users with most neutral comments | 17 | | | |
| Top 2 | 10 users with most negative comments | 17 | | | |
| | d Cloud of Positive Video Comments | | | | |
| Word | d Cloud of Neutral Video Comments | 19 | | | |
| Word | d Cloud of Negative Video Comments | 20 | | | |
| ^onclus | onclusion 21 | | | | |

YouTube Sentiment Analysis - Be Kind Rewind

Description

I've always been fascinated by women in films and the real women who play them. Every year I try to see who are nominated for the top acting prize for women and I make sure to watch the performances that garnered them that nomination. I would also often search for videos of past winners and watch their acceptance speeches and to also see which exceptional actresses they were able to beat.

So, I was very glad to discover this YouTube channel called **Be Kind Rewind**. The channel is mainly about past best actress winners, women in film, and film and Hollywood history. The videos delve into the career of these accomplished women and the circumstances that lead to their win. The videos are well-researched and very insightful. I love history, I love film, and I love women in film so I truly enjoy every video from this channel. And so I wanted to see what other people thought about this channel and its videos.

In this project, I apply natural language processing (NLP) to determine the general sentiments on this channel. The results of this project will provide the creator behind this YouTube channel a good idea of how viewers perceive the content produced.

Objectives

The goals of this project are:

- -Use the YouTube API to collect the data for this project
- -Analyze the performance of the videos of the channel
- -Determine the polarity of sentiments in the video comments using NLP
- -Get the most common words used in comments
- -Determine the overall sentiment for the channel

<u>Steps</u>

- 1. Download channel, video, and comments data from YouTube using the YouTube API
- 2. Clean and preprocess the data
- 3. Perform exploratory data analysis (EDA) on the data
- 4. Analyze the sentiment of all the comments on the videos and the channel as a whole
- 5. Conclusion

The Data

The data was scraped using Google Youtube Data API version 3.0. There are two datasets: one for the details for each of the 67 videos on the channel and one for the comments posted for all of the videos on the channel. The first dataset was used to analyze the overall performance of the channel. The second dataset was used to get the sentiments from viewers.

Tools

- **Python** used to extract the data, clean and preprocess the data, get the sentiments from the comments, and analyze the data. The libraries used were:
 - o NumPy
 - o Pandas
 - Google API client
 - o Matplotlib
 - Seaborn
- **SQL Server** store the data and retrieve information for analysis
- YouTube API source of the data

WordCloud

o Demoji

o NLTK

o TextBlob

Data Cleaning and Pre-processing

After importing the libraries and extracting the data of the channel from YouTube, we prepared the data for analysis by doing the following:

- Check the data types of each column and number of non-null values
- Convert numerical columns to numeric
- Remove the column 'favouriteCount' since this column has no data
- Convert 'duration' column to seconds
- Add a column that indicates the day of the week the videos and comments were published based on the column 'publishedAt'
- Add column 'tagCount'
- Remove emojis
- Insert a column to indicate the language the comment was written in and remove comments in languages other than English
- Remove stop words and special characters, lemmatize words
- · Get the number of words in each comment

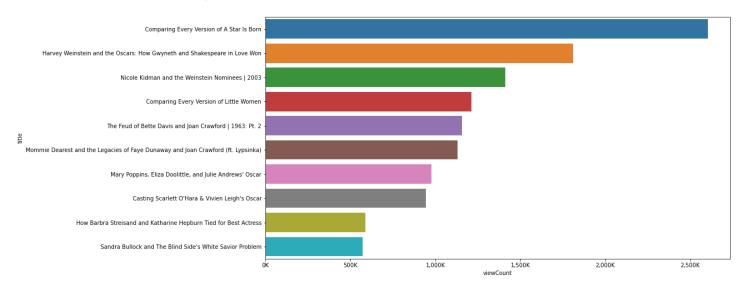
Exploratory Data Analysis

The exploratory data analysis was performed using SQL to retrieve information for the datasets. Python was also used for the analysis to visualize the analysis. The EDA aimed to retrieve the following information:

- 1. Top performing videos by viewCount
- 2. Worst performing video by viewCount
- 3. Average view count of videos
- 4. Distribution of viewCount (visualization through Python)
- 5. Videos with the most comments
- 6. Videos with the least comments
- 7. Average number of comments
- 8. Video comments per 1000 views
- 9. Distribution of commentCount (visualization through Python)
- 10. Videos with the most likes
- 11. Days of the week that videos are posted
- 12. Day of week videos were published and their current view counts
- 13. Average duration of videos in minutes
- 14. Day of the week when comments are posted
- 15. Average number of words in comments for all videos
- 16. Top 10 videos with the highest average number of words in comments
- 17. Videos with the top 10 comments with the most number of words
- 18. Top 10 viewers with most comments on videos
- 19. Correlation of viewCount, likeCount, commentCount, duration, tagCount, and comment per 1k view
- 20. Scatterplot of viewCount against commentCount, likeCount, tagCount, and durationSecs
- 21. Word Cloud

1. Top performing videos by viewCount

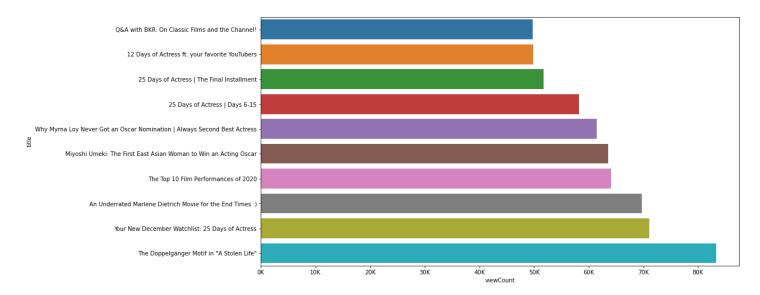
| | title | viewcount |
|----|---|-----------|
| 1 | Comparing Every Version of A Star Is Born | 2604287 |
| 2 | Harvey Weinstein and the Oscars: How Gwyneth and | 1810343 |
| 3 | Nicole Kidman and the Weinstein Nominees 2003 | 1412620 |
| 4 | Comparing Every Version of Little Women | 1211742 |
| 5 | The Feud of Bette Davis and Joan Crawford 1963: Pt. 2 | 1158232 |
| 6 | Mommie Dearest and the Legacies of Faye Dunaway | 1131213 |
| 7 | Mary Poppins, Eliza Doolittle, and Julie Andrews' Oscar | 976508 |
| 8 | Casting Scarlett O'Hara & Vivien Leigh's Oscar | 943599 |
| 9 | How Barbra Streisand and Katharine Hepburn Tied for | 588030 |
| 10 | Sandra Bullock and The Blind Side's White Savior Pro | 570741 |



The most viewed videos are those that discuss movies and personalities who are familiar to today's audiences. The channel goes over the story of past best actress winners all the way from the infancy of the Oscars. Average viewers may not be able to easily recognize and relate to the subject of some of the videos especially those from the Golden Age of Hollywood. The top 4 most viewed videos cover movies that were recently made (or remade) or actresses that are currently active who won their Oscar within the last 2 decades. The top 5 and 6 most watched video also has this characteristic in a way. They delve into the story of 2 actresses from the Golden Age of Hollywood who were the subjects of a recent popular TV series.

2. Worst performing video by viewCount

| | title | viewCount |
|----|---|-----------|
| 1 | Q&A with BKR: On Classic Films and the Channel! | 49722 |
| 2 | 12 Days of Actress ft. your favorite YouTubers | 49836 |
| 3 | 25 Days of Actress The Final Installment | 51684 |
| 4 | 25 Days of Actress Days 6-15 | 58194 |
| 5 | Why Myrna Loy Never Got an Oscar Nomination Al | 61398 |
| 6 | Miyoshi Umeki: The First East Asian Woman to Win a | 63564 |
| 7 | The Top 10 Film Performances of 2020 | 64040 |
| 8 | An Underrated Marlene Dietrich Movie for the End Ti | 69661 |
| 9 | Your New December Watchlist: 25 Days of Actress | 71043 |
| 10 | The Doppelgänger Motif in "A Stolen Life" | 83333 |



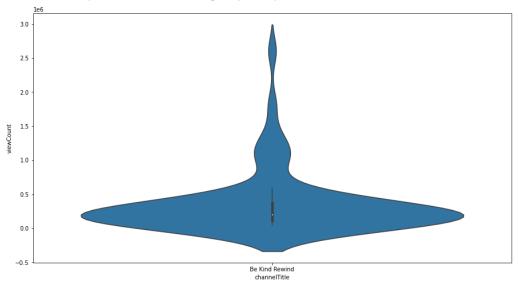
The top 4 least viewed videos are those that do not focus on a single specific actress or movie. The other least viewed videos are those the cover lesser know personalities to today's average movie-goer.

3. Average view count of videos

| | average_views | |
|---|---------------|--|
| 1 | 352354 | |

The average views of channel per video is 352,354.

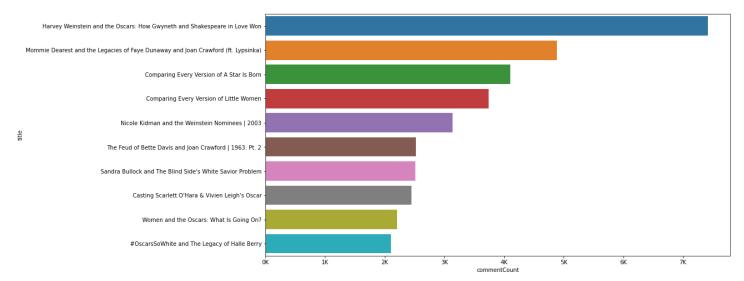
4. Distribution of viewCount (visualization through Python)



The plot shows the distributions of the view count. We can see that majority of the videos have view counts around the 300k range with the median at the 200k range. The mean is a little higher than the median because of some videos that have really high view counts.

5. Videos with the most comments

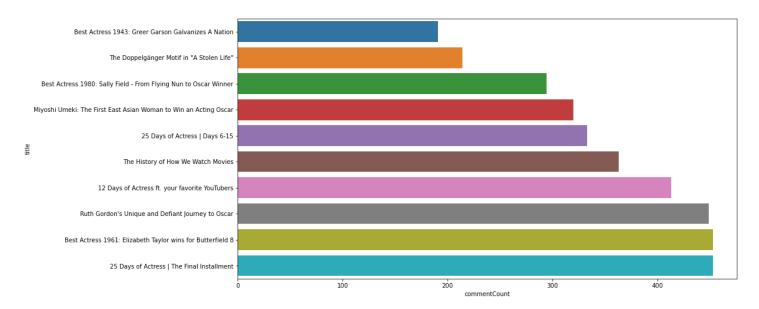
| | title | commentCount |
|----|---|--------------|
| 1 | Harvey Weinstein and the Oscars: How Gwyneth and | 7419 |
| 2 | Mommie Dearest and the Legacies of Faye Dunaway | 4889 |
| 3 | Comparing Every Version of A Star Is Born | 4104 |
| 4 | Comparing Every Version of Little Women | 3742 |
| 5 | Nicole Kidman and the Weinstein Nominees 2003 | 3133 |
| 6 | The Feud of Bette Davis and Joan Crawford 1963: Pt. 2 | 2520 |
| 7 | Sandra Bullock and The Blind Side's White Savior Pro | 2513 |
| 8 | Casting Scarlett O'Hara & Vivien Leigh's Oscar | 2446 |
| 9 | Women and the Oscars: What Is Going On? | 2204 |
| 10 | #OscarsSoWhite and The Legacy of Halle Berry | 2103 |



Videos with the most comments are also those that cover actresses and movies that are more recent as they would be more familiar to today's viewers.

6. Videos with the least comments

| | title | commentCount |
|----|--|--------------|
| 1 | Best Actress 1943: Greer Garson Galvanizes A Nat | 191 |
| 2 | The Doppelgänger Motif in "A Stolen Life" | 214 |
| 3 | Best Actress 1980: Sally Field - From Flying Nun t | 294 |
| 4 | Miyoshi Umeki: The First East Asian Woman to Wi | 320 |
| 5 | 25 Days of Actress Days 6-15 | 333 |
| 6 | The History of How We Watch Movies | 363 |
| 7 | 12 Days of Actress ft. your favorite YouTubers | 413 |
| 8 | Ruth Gordon's Unique and Defiant Journey to Oscar | 449 |
| 9 | Best Actress 1961: Elizabeth Taylor wins for Butterf | 453 |
| 10 | 25 Days of Actress The Final Installment | 453 |



Videos with the least comments are those that feature actresses and films from the distant past and list-type videos that do not focus on a single actress.

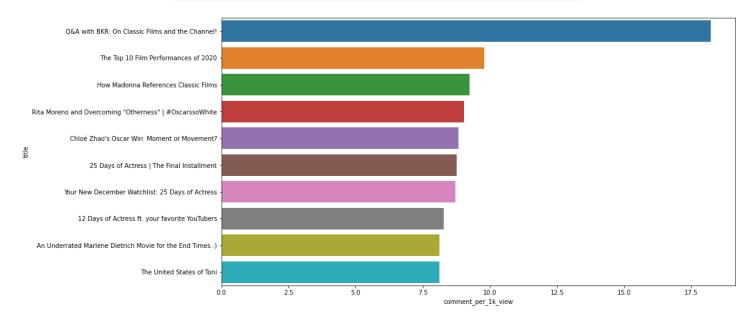
7. Average number of comments

| | average_comments | |
|---|------------------|--|
| 1 | 1246 | |

The average number of comments on the channel's videos is 1,246.

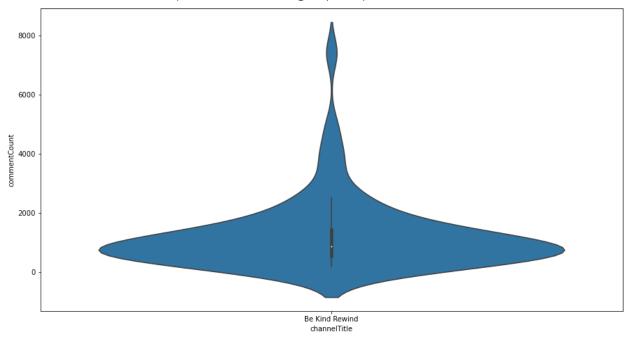
8. Video comments per 1000 views

| | title | comment_per_1k_view |
|----|---|---------------------|
| 1 | Q&A with BKR: On Classic Films and the Channel! | 18.22 |
| 2 | The Top 10 Film Performances of 2020 | 9.79 |
| 3 | How Madonna References Classic Films | 9.24 |
| 4 | Rita Moreno and Overcoming "Otherness" #Os | 9.04 |
| 5 | Chloé Zhao's Oscar Win: Moment or Movement? | 8.84 |
| 6 | 25 Days of Actress The Final Installment | 8.76 |
| 7 | Your New December Watchlist: 25 Days of Actress | 8.71 |
| 8 | 12 Days of Actress ft. your favorite YouTubers | 8.29 |
| 9 | An Underrated Marlene Dietrich Movie for the En | 8.13 |
| 10 | The United States of Toni | 8.12 |



Video comments are correlated to views since the more views a video has, the more chance the video will have of getting comments. Thus, to be able to better compare the comment count of videos, we need to consider them in the context of their view counts. The comment count was divided by the total views of each video and then multiplied by 1000. Using this ratio, we can see that the most commented video per 1000 views is the channel's Q&A video. Perhaps the reason behind this is that this video is a way for the creator of the channel to engage with the channel's audience and this, in turn, resulted to more engagement in the comments section.

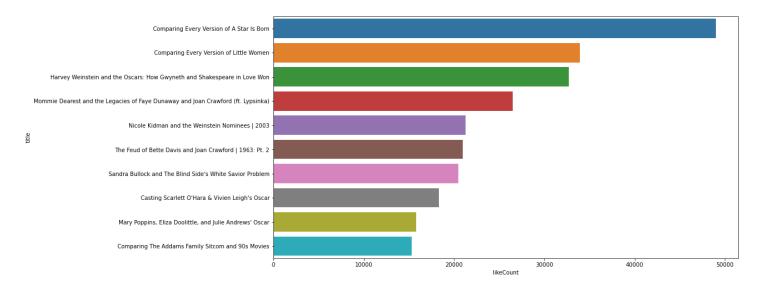
9. Distribution of commentCount (visualization through Python)



The plot show that the median of the comments is at around 800 with the mean at around 1200.

10. Videos with the most likes

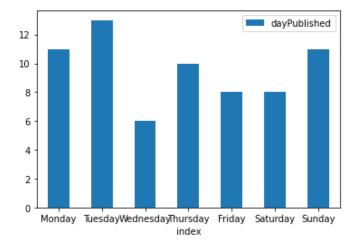
| | title | likeCount |
|----|--|-----------|
| 1 | Comparing Every Version of A Star Is Born | 48996 |
| 2 | Comparing Every Version of Little Women | 33953 |
| 3 | Harvey Weinstein and the Oscars: How | 32724 |
| 4 | Mommie Dearest and the Legacies of Fa | 26508 |
| 5 | Nicole Kidman and the Weinstein Nomin | 21277 |
| 6 | The Feud of Bette Davis and Joan Crawf | 20953 |
| 7 | Sandra Bullock and The Blind Side's Wh | 20445 |
| 8 | Casting Scarlett O'Hara & Vivien Leigh's | 18303 |
| 9 | Mary Poppins, Eliza Doolittle, and Julie A | 15815 |
| 10 | Comparing The Addams Family Sitcom | 15290 |



Similar to view count and comment count, the videos the most likes are those that cover actresses and films in the more recent past of Hollywood. These actresses and films are more familiar to today's viewers compared to actress and films in the distant past of Hollywood.

11. Days of the week that videos are posted

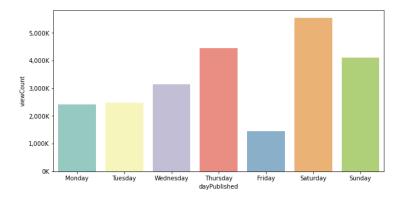




Most of the videos are posted on Sunday, Monday, and Tuesday.

12. Day of week videos were published and their current view counts

| | dayPublished | total_views |
|---|--------------|-------------|
| 1 | Saturday | 5545057 |
| 2 | Thursday | 4461961 |
| 3 | Sunday | 4102135 |
| 4 | Wednesday | 3149391 |
| 5 | Tuesday | 2479160 |
| 6 | Monday | 2425864 |
| 7 | Friday | 1444196 |



Videos that were posted on Saturday, Thursday, and Sunday have had the most views so far. However, this could be a function more of their subject rather than a function of the day of the week when they were posted.

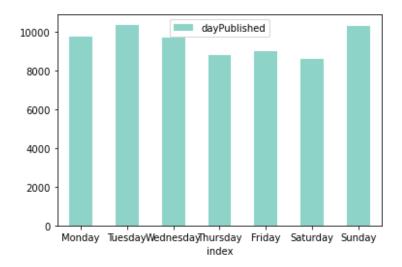
13. Average duration of videos in minutes

| | average_video_duration_mins | |
|---|-----------------------------|--|
| 1 | 23.13 | |

The channel's videos have an average length of 23.13 minutes.

14. Day of the week when comments are posted

| | dayPublished | comments_posted |
|---|--------------|-----------------|
| 1 | Tuesday | 10361 |
| 2 | Sunday | 10272 |
| 3 | Monday | 9759 |
| 4 | Wednesday | 9707 |
| 5 | Friday | 8976 |
| 6 | Thursday | 8819 |
| 7 | Saturday | 8603 |
| | | |



The channel's videos receive roughly the same amount of comments for every day of the week.

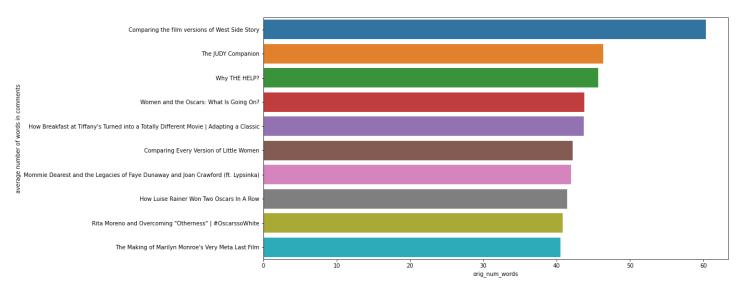
15. Average number of words in comments for all videos

| | ave_num_words_all_vids |
|---|------------------------|
| 1 | 33 |

Comments have an average length of 33 words.

16. Top 10 videos with the highest average number of words in comments

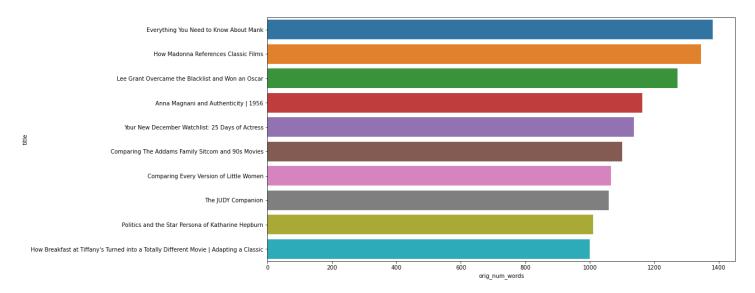
| | title | ave_num_words |
|----|--|---------------|
| 1 | Comparing the film versions of West Side Story | 60 |
| 2 | The JUDY Companion | 46 |
| 3 | Why THE HELP? | 45 |
| 4 | Women and the Oscars: What Is Going On? | 43 |
| 5 | How Breakfast at Tiffany's Turned into a Total | 43 |
| 6 | Comparing Every Version of Little Women | 42 |
| 7 | Mommie Dearest and the Legacies of Faye | 41 |
| 8 | How Luise Rainer Won Two Oscars In A Row | 41 |
| 9 | Rita Moreno and Overcoming "Otherness" | 40 |
| 10 | The Making of Marilyn Monroe's Very Meta L | 40 |



The video "Comparing the film versions of West Side Story" has the highest average length of comments at 60 words.

17. Videos with the top 10 comments with the most number of words

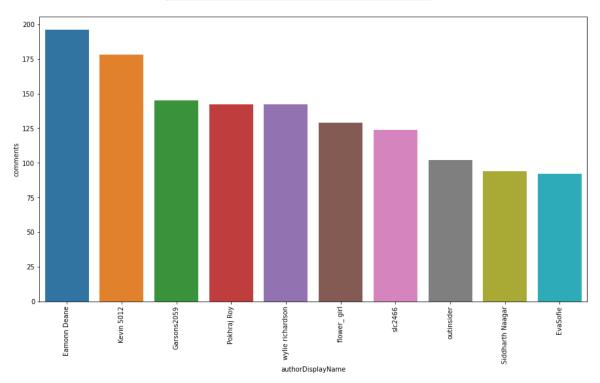
| | title | orig_num_words |
|----|--|----------------|
| 1 | Everything You Need to Know About Mank | 1382 |
| 2 | How Madonna References Classic Films | 1345 |
| 3 | Lee Grant Overcame the Blacklist and W | 1272 |
| 4 | Anna Magnani and Authenticity 1956 | 1162 |
| 5 | Your New December Watchlist: 25 Days | 1137 |
| 6 | Comparing The Addams Family Sitcom a | 1101 |
| 7 | Comparing Every Version of Little Women | 1065 |
| 8 | The JUDY Companion | 1059 |
| 9 | Politics and the Star Persona of Katharine | 1010 |
| 10 | How Breakfast at Tiffany's Turned into a T | 999 |



This list shows the videos where the top 10 longest comments were posted. The longest comment with 1,382 comments was posted for the video "Everything You Need to Know About Mank".

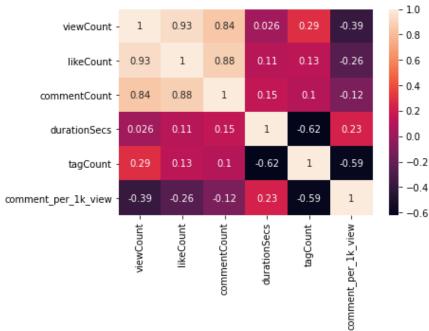
18. Top 10 viewers with most comments on videos

| | authorDisplayName | number_of_comments |
|----|-------------------|--------------------|
| 1 | Eamonn Deane | 196 |
| 2 | Kevin 5012 | 178 |
| 3 | Garsons2059 | 145 |
| 4 | wylie richardson | 142 |
| 5 | Pokhraj Roy | 142 |
| 6 | flower_ girl | 129 |
| 7 | slc2466 | 124 |
| 8 | outinsider | 102 |
| 9 | Siddharth Naagar | 94 |
| 10 | EvaSofie | 92 |



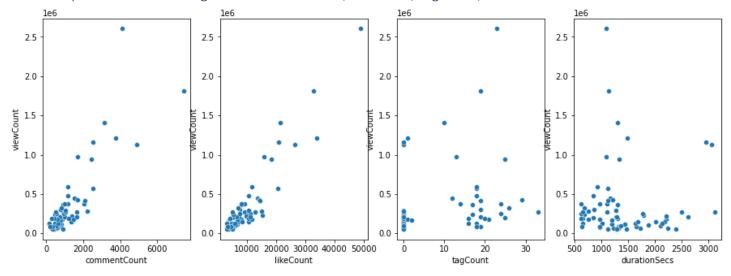
19. Correlation of viewCount, likeCount, commentCount, duration, tagCount, and comment view ratio

| | viewCount | likeCount | commentCount | durationSecs | tagCount | comment_per_1k_view |
|---------------------|-----------|-----------|--------------|--------------|-----------|---------------------|
| viewCount | 1.000000 | 0.932727 | 0.842766 | 0.025714 | 0.287985 | -0.385730 |
| likeCount | 0.932727 | 1.000000 | 0.876643 | 0.108549 | 0.130585 | -0.255519 |
| commentCount | 0.842766 | 0.876643 | 1.000000 | 0.146403 | 0.100263 | -0.120073 |
| durationSecs | 0.025714 | 0.108549 | 0.146403 | 1.000000 | -0.621275 | 0.228176 |
| tagCount | 0.287985 | 0.130585 | 0.100263 | -0.621275 | 1.000000 | -0.589845 |
| comment_per_1k_view | -0.385730 | -0.255519 | -0.120073 | 0.228176 | -0.589845 | 1.000000 |
| | | | | | | |



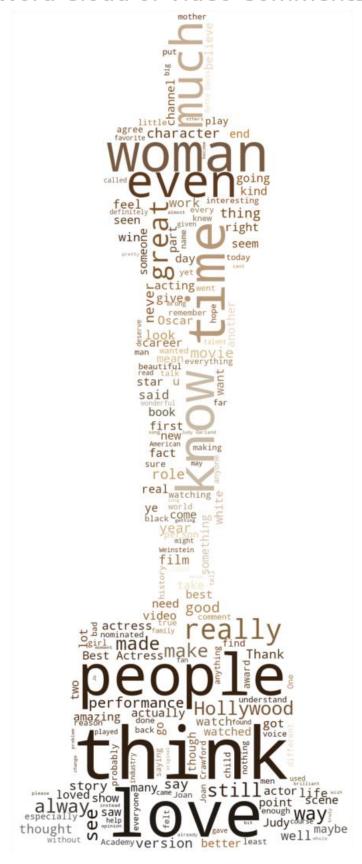
There is a high correlation between viewCount, likeCount, and commentCount. The more a video is viewed, the chance of it getting likes and comments from the viewers.

20. Scatterplot of viewCount against commentCount, likeCount, tagCount, and durationSecs



As seen in the correlation matrix, there is a positive correlation between commentCount and viewCount as well as likeCount and viewCount. Videos with higher viewCounts have higher like counts and comment counts. There is no distinguishable relationship between durationSecs and viewCount as well as tagCount and viewCount.

Word Cloud of Video Comments

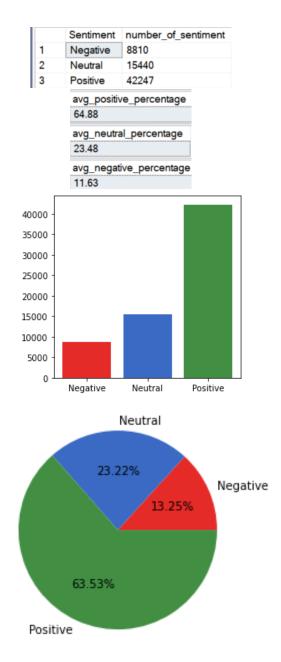


Sentiment Analysis

TextBlob was used to analyze each comment and determine their subjectivity and polarity. Polarity defines orientation of a statement whether it expresses a positive, neutral, or negative sentiment. It expressed as a score from -1 to +1 where -1 means a negative statement and +1 means a positive statement. Subjectivity measures the amount of personal opinion or factual information contained in a text. It's value is from 0 to 1 with 1 meaning it expresses personal opinion.

Based on the polarity score, each comment was tagged as 'Positive' if the score > 0, 'Neutral' if the score = 0, and 'Negative' if the score < 0.

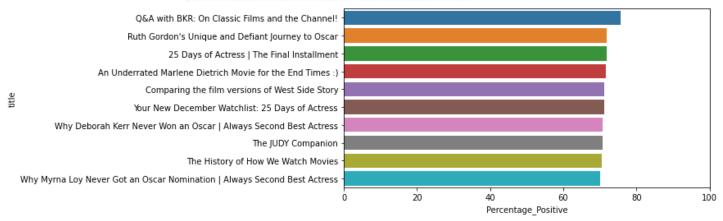
Overall Sentiment



The channel has more positive comments than neutral or negative comments. With 63.53% of the comments being positive, viewers generally like the content available on the channel Be Kind Rewind. The videos have an average of 64.88% of their comments being positive.

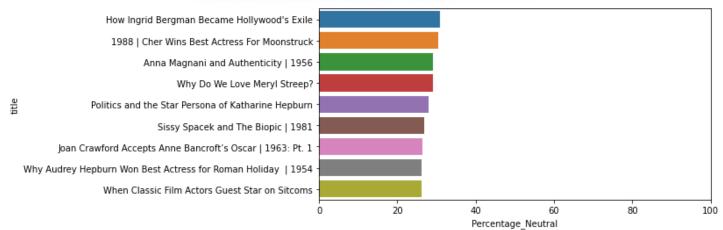
Top 10 videos with the highest percentage of positive comments

| | title | Positive_Percentage |
|----|---|---------------------|
| 1 | Q&A with BKR: On Classic Films and the Channel! | 75.71 |
| 2 | Ruth Gordon's Unique and Defiant Journey to Oscar | 71.95 |
| 3 | 25 Days of Actress The Final Installment | 71.82 |
| 4 | An Underrated Marlene Dietrich Movie for the End | 71.69 |
| 5 | Your New December Watchlist: 25 Days of Actress | 71.09 |
| 6 | Comparing the film versions of West Side Story | 71.09 |
| 7 | Why Deborah Kerr Never Won an Oscar Always | 70.84 |
| 8 | The JUDY Companion | 70.75 |
| 9 | The History of How We Watch Movies | 70.48 |
| 10 | Why Myrna Loy Never Got an Oscar Nomination | 70.06 |



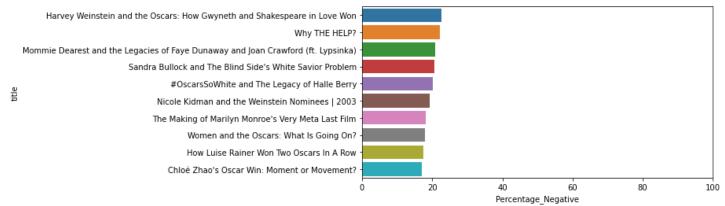
Top 10 videos with the highest percentage of neutral comments

| | title | Neutral_Percentage |
|----|---|--------------------|
| 1 | How Ingrid Bergman Became Hollywood's Exile | 30.81 |
| 2 | 1988 Cher Wins Best Actress For Moonstruck | 30.37 |
| 3 | Best Actress 1973: Liza Minnelli wins for Cabaret | 30.34 |
| 4 | Anna Magnani and Authenticity 1956 | 29.17 |
| 5 | Why Do We Love Meryl Streep? | 29.12 |
| 6 | Politics and the Star Persona of Katharine Hep | 28.05 |
| 7 | Sissy Spacek and The Biopic 1981 | 26.92 |
| 8 | Joan Crawford Accepts Anne Bancroft's Oscar | 26.43 |
| 9 | Why Audrey Hepburn Won Best Actress for R | 26.23 |
| 10 | When Classic Film Actors Guest Star on Sitcoms | 26.19 |



Top 10 videos with the highest percentage of negative comments

| | title | Negative_Percentage |
|----|---|---------------------|
| 1 | Harvey Weinstein and the Oscars: How Gwyneth and | 22.74 |
| 2 | Why THE HELP? | 22.09 |
| 3 | Mommie Dearest and the Legacies of Faye Dunaway | 20.74 |
| 4 | Sandra Bullock and The Blind Side's White Savior Pr | 20.53 |
| 5 | #OscarsSoWhite and The Legacy of Halle Berry | 20.07 |
| 6 | Nicole Kidman and the Weinstein Nominees 2003 | 19.35 |
| 7 | The Making of Marilyn Monroe's Very Meta Last Film | 18.22 |
| 8 | Women and the Oscars: What Is Going On? | 17.98 |
| 9 | How Luise Rainer Won Two Oscars In A Row | 17.47 |
| 10 | Chloé Zhao's Oscar Win: Moment or Movement? | 16.94 |



Top 10 users with most positive comments

| | authorDisplayName | Positive |
|----|-------------------|----------|
| 1 | Kevin 5012 | 124 |
| 2 | slc2466 | 102 |
| 3 | Garsons2059 | 95 |
| 4 | Pokhraj Roy | 92 |
| 5 | wylie richardson | 86 |
| 6 | outinsider | 75 |
| 7 | Eamonn Deane | 67 |
| 8 | Orpheus90 | 59 |
| 9 | flower_ girl | 55 |
| 10 | musicaltheaterge | 51 |

Top 10 users with most neutral comments

| | authorDisplayName | Neutral |
|----|-------------------|---------|
| 1 | Eamonn Deane | 99 |
| 2 | Kosta Jovanovic | 51 |
| 3 | flower_ girl | 45 |
| 4 | amy clarke | 45 |
| 5 | RaymondHng | 45 |
| 6 | Siddharth Naagar | 37 |
| 7 | EvaSofie | 37 |
| 8 | Pokhraj Roy | 36 |
| 9 | Garsons2059 | 34 |
| 10 | Abandoned Frag | 31 |

Top 10 users with most negative comments

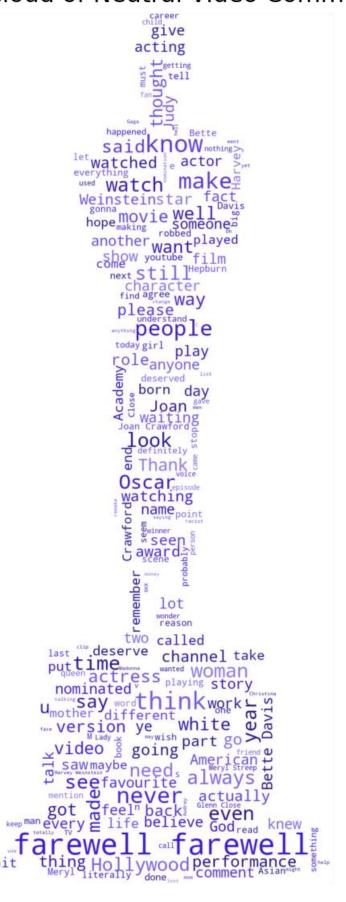
| | authorDisplayName | Negative |
|----|-------------------|----------|
| 1 | wylie richardson | 31 |
| 2 | Eamonn Deane | 30 |
| 3 | flower_ girl | 29 |
| 4 | Kevin 5012 | 24 |
| 5 | Rickard Kaufman | 21 |
| 6 | Natalie Freeman | 20 |
| 7 | Jarred Knox-Ney | 16 |
| 8 | Garsons2059 | 16 |
| 9 | EvaSofie | 15 |
| 10 | Johanna Zamora | 15 |

Word Cloud of Positive Video Comments



wait

Word Cloud of Neutral Video Comments



Word Cloud of Negative Video Comments



Conclusion

Based on the sentiments of comments on the channel's videos, we can conclude that the channel is generally well received by viewers. Majority of the comments (63.53%) are positive. The videos have an average of 64.88% of their comments being positive. Some of the most used words in the positive comments are love, great, think, time, good, and woman.