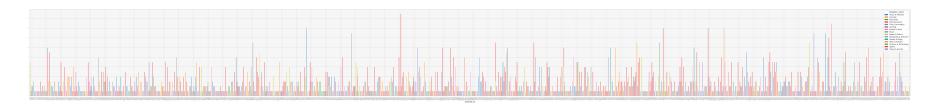
Youtube Trending Video Data EDA

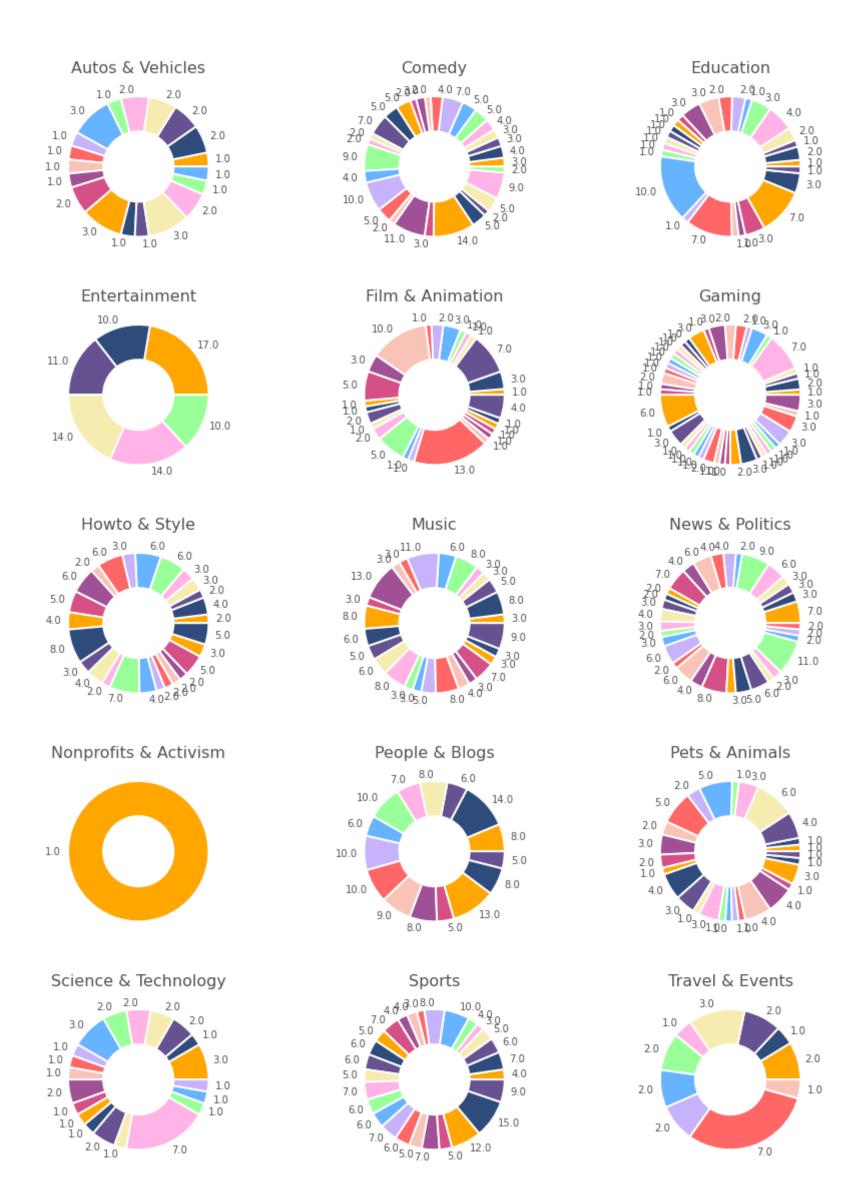
▼ 1.Visualization

▼ 1-1. Categorical > By Channel > Video Count



- Please magnify the above plot to see video count by channel for all categories.
- Each color represents the category. Please refer to the legend on the upper right for description.
- CHECKPOINTS
 - There are a few channels that upload in different categories;(eg. CH2DHU9) most upload in one category.
- The below plot is also another way to show video count by channel.

Video Count of channels by Category

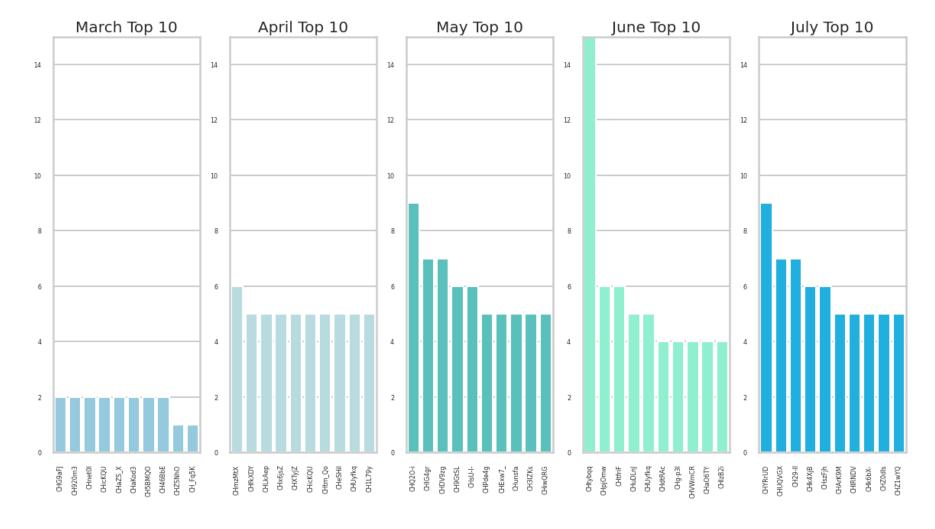


▼ 1-2. Monthly > Categorical > By Channel > Video Count

- There are total 5 months(March~ July), resulting in 5 graphs.
- Please magnify the plots for details.



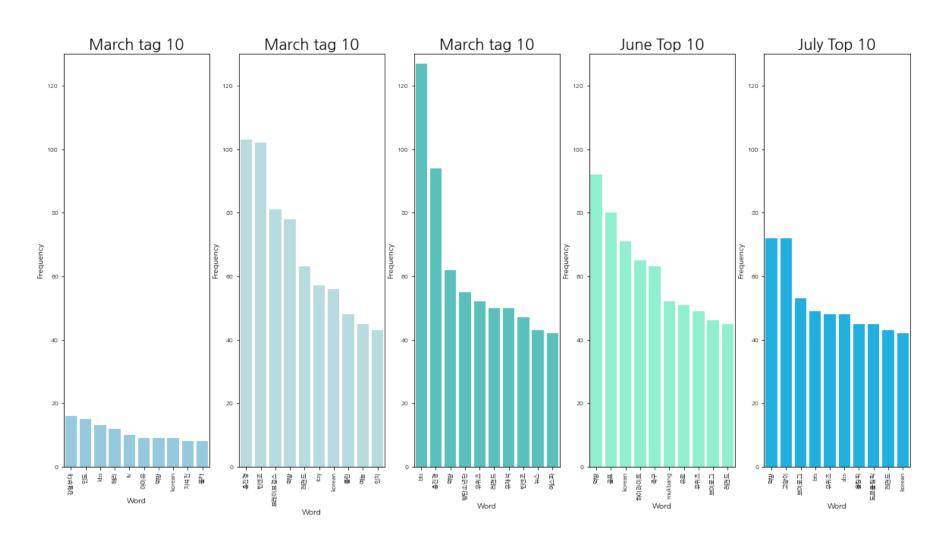
▼ 1-3. Monthly Top 10 Channels



▼ 1-4. Weekly Top 5 Channels



▼ 1-5. Monthly Tag Rank



• The monthly Top 10 tags, show that the youtube videos follow the trend of the month. Combining the korean-english word would definitely clarify the Top 10 words, as there are duplicates such as 있지 = Itzy(k-pop group).

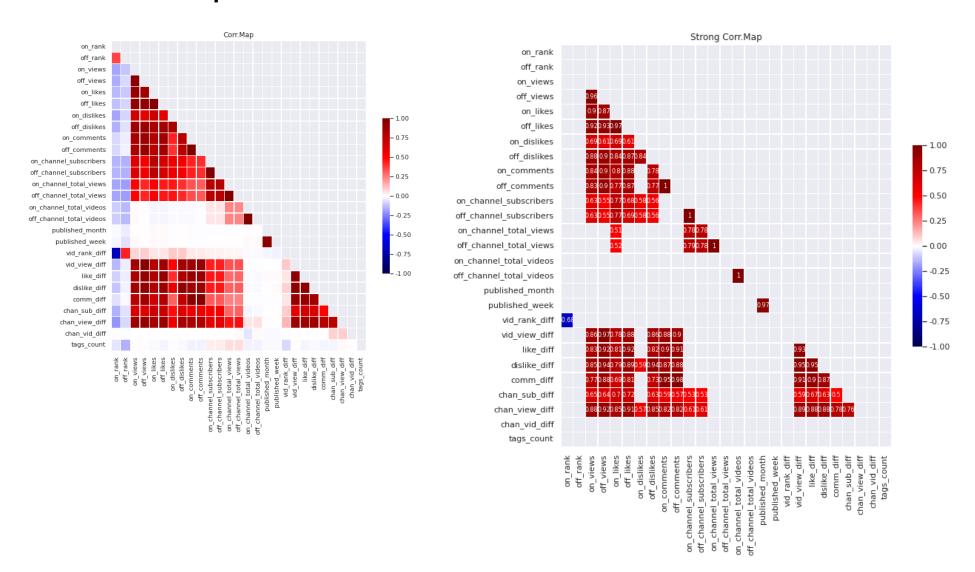
4

▼ 2. Creating Viewer Engagement Features & Analysis

Created features

- · 'vid_rank_diff' : the rank difference of on/off trending
- 'vid_view_diff' : the view difference of on/off trending
- 'like diff' = the like count difference of on/off trending
- 'dislike_diff' = the dislike count difference of on/off trending
- 'comm_diff' = the comment count difference of on/off trending
- 'chan_sub_diff' = the subscriber count difference of on/off trending
- 'chan_view_diff' = the channel total view count difference of on/off trending
- 'chan_vid_diff' = the channel total video count difference of on/off trending
- 'trend_duration' = the duration of trending
 - It could be generally thought the longer trend duration would mean more views, which could result with high correlation between the two features.
- 'before_trend_duration' = the duration before trending
- 'tags_count' = the number of tag words
 - It is important to optimize the meta data for better search & visibility of videos, and Tags count would be one of the strongest tools to enhance both.

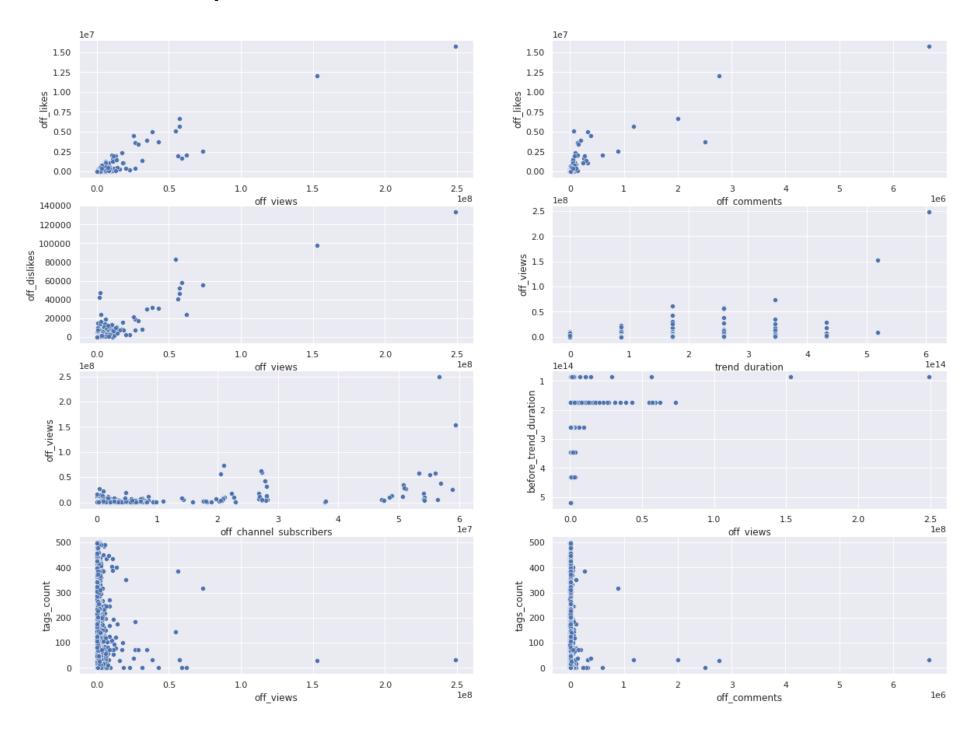
Correlation Map



From the Correlation Map we could interpret as follows:

- Views, Likes, Dislikes, comments have a strong correlation.
- Views should be high to become trending, as it has the most & highest correlation with other features.
- Ranking did not have a strong correlation with most of the features except the one it created.
- Channel subscribers count & total videos have a weak correlation.

Scatter Plot of important features



From the Scatterplot we could interpret as follows:

- 1. Likes are more correlated with Trending. Dislikes have a slightly lower correlation with the overall features. Refer to 1st, 3rd scatter plot.
- 2. The channels subscribers & total views show low correlation. Refer to 5th plot.
- 3. Surprisingly the custom feature 'trend_duration' has less correlation with views.
- 4. Contrary to expectations, Tags_count was also not a strong correlated feature.