



YouTube Statistics

Presented by: Adrian Sealy

Video Statistics

- The dataset contains YouTube video statistics from videos published on YouTube's website.
- There are 1882 records ranging from 2007 – 2022, with four columns being used for this analysis, as follows:
 - Keyword: The keyword associated with the video
 - Likes
 - Comments
 - Views



Research question

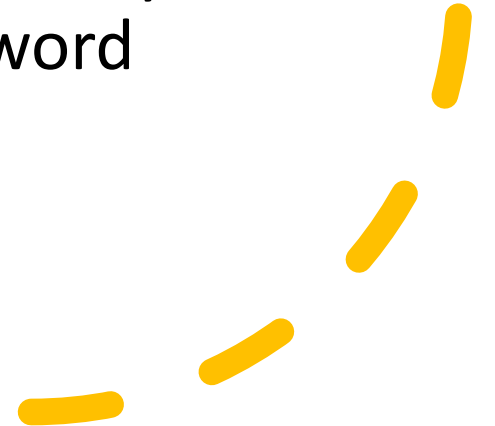
- For this analysis I examined two questions for this dataset
1. Is there a significant difference in a video's views with videos that receive high likes and comments versus videos that receive high views?
 2. Is there a correlation between views, likes, and comments a video receives?

Hypotheses

- H1: The mean of keyword Google views will be \neq then the mean of keyword Mrbeast views
- Ha: The mean of keyword Google views will be $=$ to the mean of keyword Mrbeast views
- H2: There is a strong correlation with views between likes and comments. This means that the more likes and comments a video generates the more views it will obtain.

How the data tests the hypotheses

- Visualizations and a table will show correlations between views, comments and likes
- T-test will show the significance of keyword Google's mean views versus keyword Mrbeast's mean views



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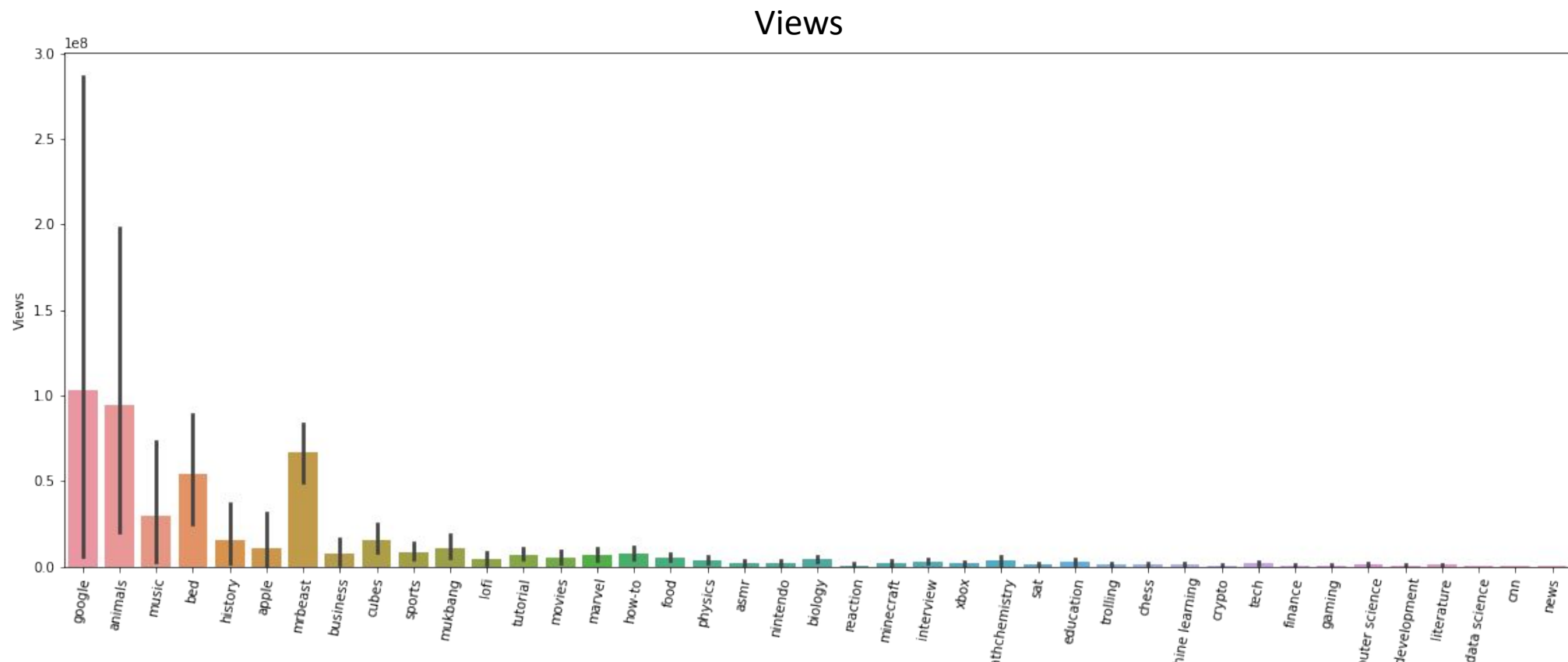
Uses for the findings

- Businesses will be able to use the findings to build criteria to help select content creators to promote their products
- It will show the importance of keywords used when looking for a content creator with their target audience

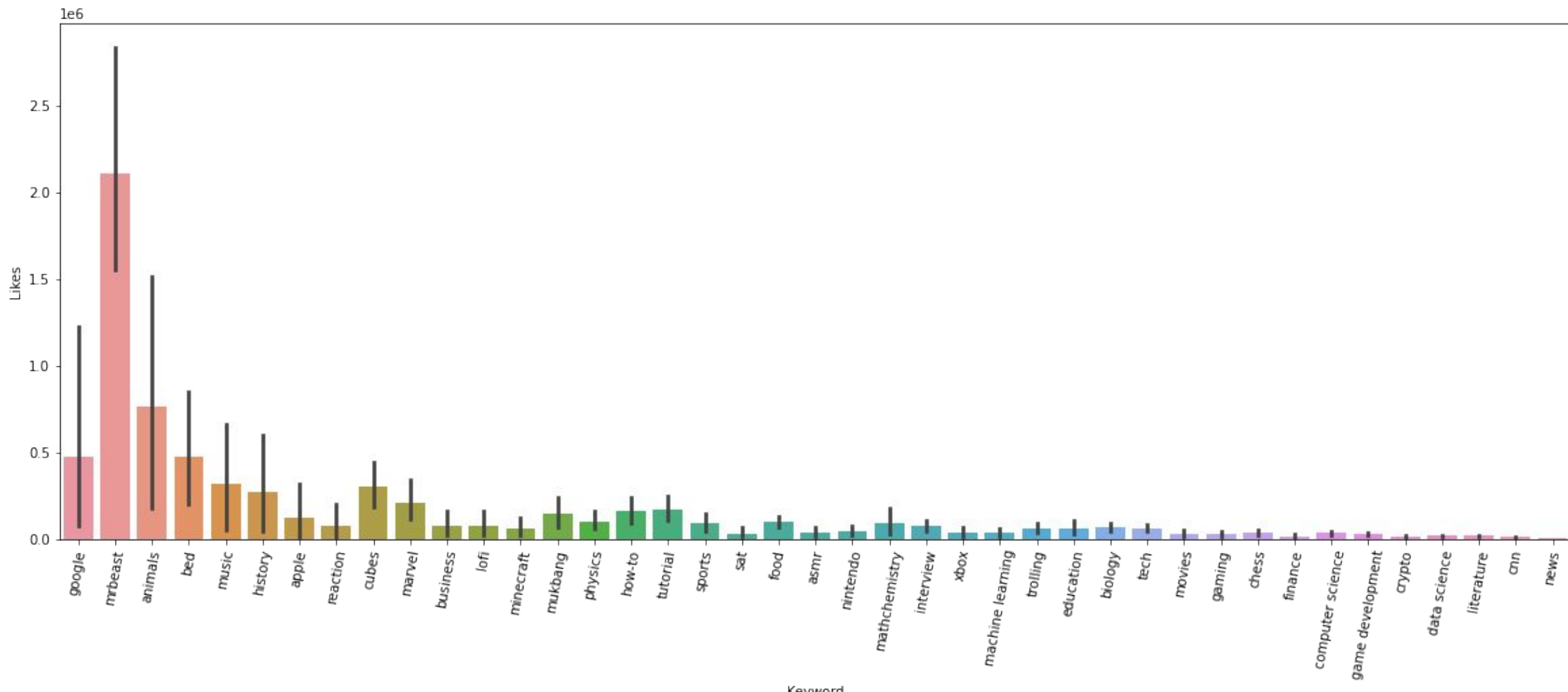


Hypothesis 1

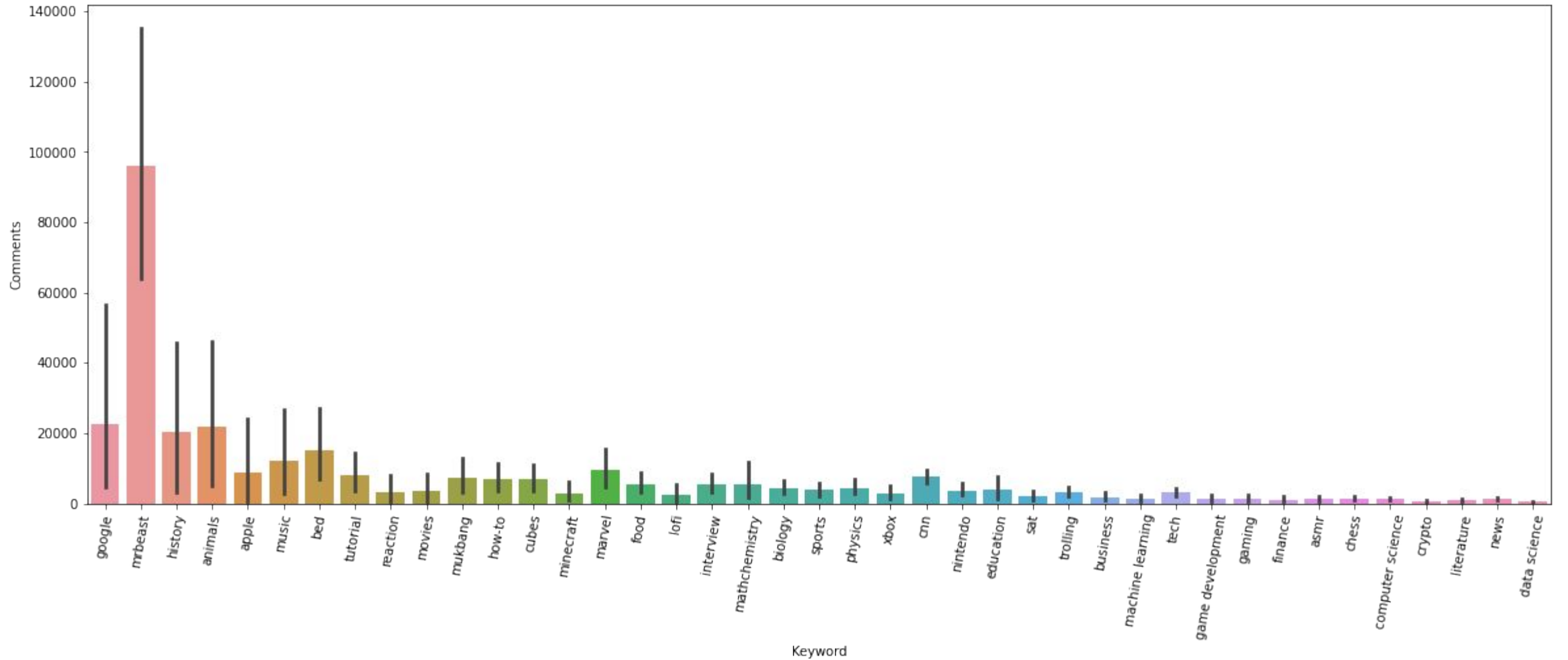
- Keywords help YouTube understand the type of content you produce and who your target audience is
- H1: The mean of Google's views will be \neq Then the mean of mrbeast views
- H_a: The mean of Google's views will be $=$ to the mean of mrbeast views



Likes



Comment



Hypothesis 1 results

The p-value of 0.67 is greater than the alpha of .05, therefore we can not reject the null hypothesis.

There is a 95% confidence that the difference in means is between -200M and 139M
(-212,911,769.9 and 139,709,236.5)

Hypothesis 2

- Is there a strong correlation with views between likes and comments

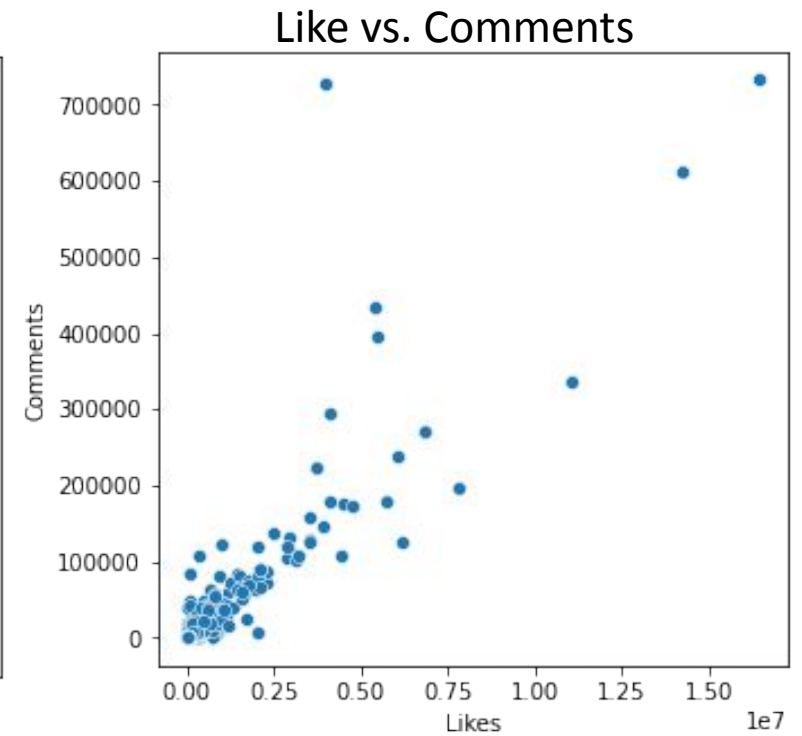
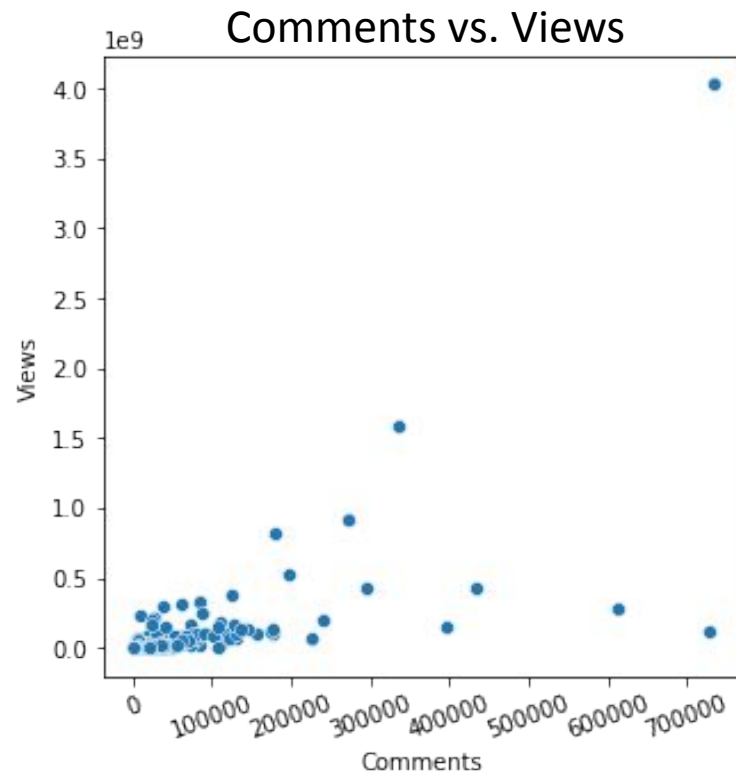
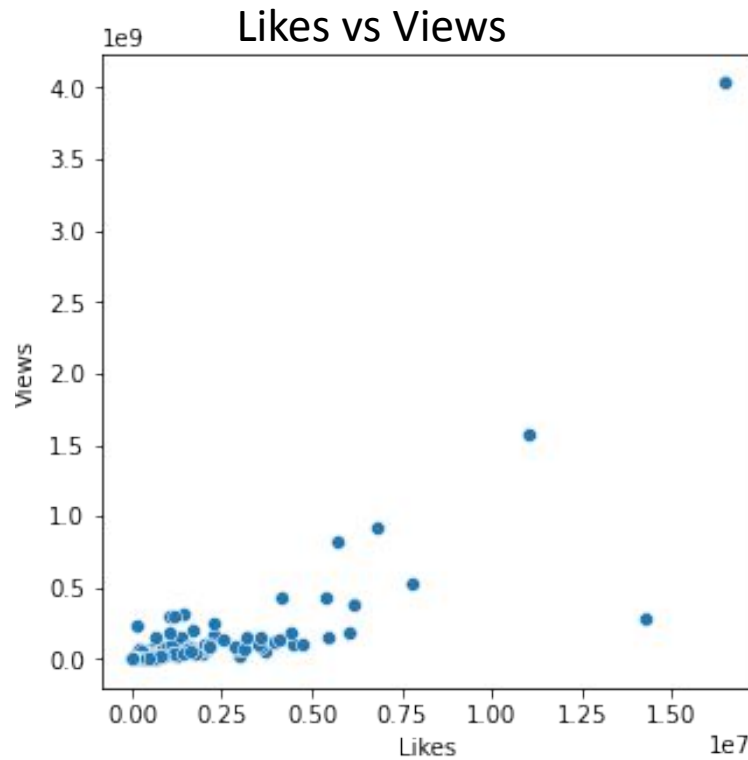



Table of Correlations

	Likes	Comments	Views
Likes	1.000000	0.891903	0.756817
Comments	0.891903	1.000000	0.660877
Views	0.756817	0.660877	1.000000



Recommendations

1. Keywords play a big role in the views a video will get. Therefore, a business must prioritize videos with keywords that match a viewer they want to advertise towards and that will get the most views.
 2. When selecting a content creator, I would suggest looking at the views but also the likes a creator gets.
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Additional Information

- [Link to Colab](#)

