Links: https://public.tableau.com/app/profile/ muhammad7006/viz/ udacity_16636782555880/Dashboard1

Summary:

First graph:

In this graph that Is a bar chart I ordered the top 15 viewing tags, colored by the summation of their likes and labeled by the most viewing categories of each tag, when looking at it we'll see that Music, Comedy and Super Heroes video are the most viewed videos, therefore pop, funny comics was between the top viewed tags.

Second graph:

In this graph I mapped the US states and colored them to show the most viewing states red or near to read, and labeled them by the most viewing category in each state, just to find out again that Music and Entertainment were the most frequent on the map, also If you moved the cursor of your mouse to any state you'd be able to see the most viewed YouTube channel that state, then you'll find out that the names of those top channels are highly correlated their state's top categories, just like in state NV, WA, CO and OR.

The dashboard:

First graph (the par chart):

This bar chart shows the most viewing channels, labeled by the most viewing category and colored by the summation of their videos' likes to be in darker red in case of a high number of likes, If we took a closer look we'll find out that most of those channels' top viewing category is Entertainment or Music, also the color of the bars gets darker when the length of the bars increase (only if we excluded Kylie Jenner's), that means that their maybe a positive relationship between the number of likes and views, and this brings us to the following graph.

Second graph (the scatter):

This graph shows the relationship between likes and dislikes of each tag, it also shapes each tag point by its top viewing category, size them by the number of comments for each tag and colors them to make the most viewing tags brighter, Now if we took a look we'll see that there's a positive relationship between videos' likes and dislikes, also the color gets brighter with the increasing of the likes or dislikes, that means also that there's a positive relationship between views and likes, and also the size gets bigger the increasing of the likes, therefore we can say that likes, dislikes, comments and views are all related to each other's in a positive way, now let's take a closer look to find out that music videos have a high numbers of likes and lower numbers of dislikes, also there sizes a much bigger, therefore we can say that they have the higher count of likes and comments, another thing to notice it that Entertainment videos are the opposite of the Music videos when it comes to number of like against number of dislikes, as they have a higher number of dislikes and lower number of likes, although this didn't change the fact that they have a high number of views and comments.

Third graph (area chart):

When I tried to plot an area chart of the views and categories over time I found that the vies have insanely increased in the last 6 months of the recorded publishing dates, so I cutted those 6 months out to show the views of the top 6 viewing categories through out those 6 months just to find out that the most viewing categories were as I expected, therefore we can say that the most viewing video categories are Music and Entertainment.

Design:

I chose to color my charts in red and light gray so it would be similar to YouTube's GUI, also I chose to put the simplest 3 charts in the dashboard so it doesn't look noisy.

Resources: N/A