Project Name: Data Visualization by Tableau
Project Outline: In this project, you'll build an interactive dashboard with Tableau and use them to discover and communicate insight from data.
you'll create visualizations to reveal insights from a data set. You will create data visualizations that tell a story or highlight patterns in the data set. Your work should be a reflection of the theory and practice of data visualization, such as visual encodings, design principles, and effective communication.

Data Details: I downloaded data from the Udacity classroom. That data comes from a Kaggle dataset here is the link Trending YouTube Video Statistics. This data set will require some cleaning in excel prior to Tableau. Data was already cleaned from the class.

Links:

LineChart of trending date:
https://public.tableau.com/app/profile/neetu8057/viz/Youtube_LineChart/Linechartoftrendingdate?publish=yes

Scatter plot of average likes/dislikes
https://public.tableau.com/app/profile/neetu8057/viz/Youtube_ScatterPlot/ScatterplotofAvglikesdislikes?publish=yes

Dashboard:
https://public.tableau.com/app/profile/neetu8057/viz/Youtube_dashboard/youtube_dashboard?publish=yes

Summary:

LineChart: In line Chart of trending date, Entertainment is counted higher than any other categories in youtube, that means entertainment category was hotter topic during all these trending year than other categories. Least counted category was Non profit Activism during trending date.

Scatter Plot of Average likes/dislikes, Scatter plot is best suited for two continuous variables. There is positive correleation between likes and dislikes, although, there are two outliers. Music category has most average likes while Non Profit & Activism has least likes. However, Gaming has most average dislikes while Shows has least dislikes.

Dashboard: In dashboard, we can analyze coleection of visualization in one pane. Below is the description of using chart type in dashboard.
Barchar1: In that barchart, which category has most and least likes and dislikes in different trending years. In all trending years, Most average likes in music category while music and

gaming have equal dislikes. Least average like in Non profit Activism while least dislike in shows category. We can say music has almost equal likes and dislikes. We can analyze what type of music has most likes and idslikes,
Different categories has different likes and dislikes, overall trend are quite similar in trending years. We can also use filter years and can analyze in different years.

Map: Mapchart is a great for geographical data. Analyzing youtube views in different categories in map plot using stats in USA.
Top five countries with highest Average views are--
Film & Animation:16,810,371(OH)
Music: 12,773,495(MD)
Auto & Vehicles: 9,795,353(AL)
Entertainment: 6,996,738(NV)
Comedy: 4,351,952(PA)

BarChart2: Barchart is good for categorical data. In that barchart, analyzed top 10 comments of youtube titles with categories.
In 2017 comedy category, title “Kelly Clarkson Had an Akward Moment with Merl Streep” has the highest comment in top 10 titles, was 16,422. Least comment in 2017 was Entertainment category, title “Jennifer Lawerence Reveals The Inspiration for Her Jersey Accent from American Hustle | WWHL” was 9, 724 while in 2018 Entertainment category, title “Lost in Space | Official Trailer [HD] Netflix” has the highest comment in top 10 title list was 19,684.

Design:

Line Plot: Using categpry in color mark help me to make readers understand different catories easily and can see the trend of individual lines in trending dates with each categoy. Furthermore, using Name(tag) in filter, we can filter each tag and see the trend.

Scatter Plot: Defining each category in the scatter plot, tooltip in the Mark field was handy to analyze each category.. Trending Date in the filter, help me to visualize the changes of likes/dislikes over the trending date.
Dashboard:
Barchart1, Using filter in trending date help me to analyze each category of youtube in trending years. Map Plot: Used category name in the filters, so we can analyze average views in different stats
in different categories. Stats are used in details of Mark field. Average views in colors, analyze that higher color with most views and lighter color in least views

Barchart2: Publish year used in colors Mark Field, and top 10 parameters of titles. In the pane, publish year is showing with colors, help you to analyze top 10 sum of comments in youtube titles.

Resources:

https://help.tableau.com/current/pro/desktop/en-us/parameters_create.htm?_gl=1*10wdji8*_ga*MjAxMzgyNjI0MC4xNjI1NTAyNjgx*_ga_8YLN0SNXVS*MTYyNjU1NDIyMC4zMS4xLjE2MjY1NTQyMjQuMA..