Final Project Proposal

(due March 10th 7:00p.m)

This document outlines the guidelines for the project proposal. You can start working on the project once your proposal is accepted and graded by your TA on gradescope. The entire final project is worth 25% of your final grade and the proposal takes account for **5%**. There is no late-submission on the proposal.

Submission Guideline

Download this google doc, fill the table and submit it in **PDF** format on Gradescope.

If you need some inspirations please feel free to take a look at:
Showcase of Information is Beautiful Awards

Project Proposal

	Description
Project Topic	
Dataset Description	Provide 1) the list of attributes and 2) a single item in the dataset as an example. **Categorical** - album column **Ordered** - track number column **Quantitative** - duration_ms column Columns: **name** (ex: “State of Grace”), **album** (ex: “Fearless”), **release_date** (ex: 2022-10-22), **track number** (ex: 1), **id** (ex: “4g2c7NoTWAOSYDy44l9nub”), **uri** (ex: “spotify:track:4g2c7NoTWAOSYDy44l9nub”), **acousticness** (ex: 0.204), **danceability** (ex: 0.735), **energy** (ex: 0.444), **instrumentalness** (ex: 0.0012), **liveness** (ex: 0.17), **loudness** (ex: -10.519), **speechiness** (ex: 0.0684), **tempo** (ex: 97.038), **valence** (ex: 0.0984), **popularity** (ex: 74), **duration_ms** (ex: 202395)

Dataset Link	https://www.kaggle.com/datasets/jarredpriester/taylor-swift-spotify-dataset?resource=download
Why you chose this particular dataset. What kind of story you aim to deliver (e.g “Sales analysis of company xyz”)	I aim to deliver a comprehensive analysis of Taylor Swift’s discography, including song lyrics and trends across her albums
1 plot with 0 Key and 2 values	i) Question you are asking from this graph. Are danceability and popularity correlated when it comes to Swift’s music? ii) Columns you are going to use Danceability, popularity iii) Type of graph Scatterplot
1 plot with 1 key and 1 value	i) Question you are asking from this graph. What is Swift’s longest album? ii) Columns you are going to use Album, duration_ms iii) Type of graph Barplot
1 plot with 2 keys and 1 value	i) Question you are asking from this graph. How do the albums vary when it comes to tempo and valence? ii) Columns you are going to use Album, tempo, valence iii) Type of graph Streamgraph

1 geometric visualization	i) Question you are asking from this graph. Where in the world does Swift sing about the most? ii) Columns you are going to use Name *** may need another dataset, use world.json or something similar from class?*** iii) Type of graph World map
1 visualization from - box plot, node-link diagram, adjacency matrix	i) Question you are asking from this graph. Are more positive songs more popular? ii) Columns you are going to use Valence, popularity, album iii) Type of graph node-link
1 interactivity using Buttons	Describe in which visualization you plan to add the button-related interactivity Bar plot, sorting
1 interactivity using Tooltips (Display data on hover).	Describe in which visualization you plan to add a tooltip. World map, add song title and album and popularity info
1 interactivity using Animation.	Describe 1) what type of animation you plan to add and 2) in which visualization you plan to add. Transition animation to the barplot as it sorts
1 interactivity not learned in class	Describe 1) what type of animation you plan to add and 2) in which visualization you plan to add. Zoom in on node-link when click on node (clustered by album?)

Any creative form of plot you want to try for the five you selected above? (e.g. pictogram)	Hint) You can refer to the storytelling lecture slides. Note) This is going to be for extra credit. Want to add pictogram for album names in barchart

I deviated in my final project in the following ways:

1. Chose to do my scatterplot on the relationship between avg number of minutes per song per album and avg album popularity. This was done to make the graph cleaner. Still looked at any correlations/trends
2. Got info for my geographic plot from "https://taylorswiftandx.tumblr.com/post/177119407505/taylor-swift-and-specific-places" and wrangled the data in app.js. Chose to do just America as there was more data for it but made sure data listed both states and countries. Also used the us-state.json file given in class.
3. Used zoom on my geographic map instead of on my node-link diagram– for node link, made a drop down menu for choosing specific albums
4. Used tooltip on my scatterplot instead of geomap