

Proposal Spotify Recommender

Intro to Topic

Spotify is a digital music, podcast, and video service that provides you access to millions of songs and other content from creators all over the world. We will be utilizing a Kaggle dataset, [Music Recommendations](#) to identify popularity of music trends the past sixty years and create a recommender engine based on user input to suggest similar songs to that the user may like.

Inspiration

We were inspired by the Anime Recommender and [Book Recommender](#) previously done and wanted to look further into expanding our knowledge in predictive data analytics with a Spotify data set.

Visualizations found on Tableau Public that inspired us to focus on popular Spotify playlists.

- <https://public.tableau.com/app/profile/poojagandhi/viz/DuoDare10SpotifyAudioFeatures/DuoDare10SpotifyAudioFeatures>
- <https://public.tableau.com/app/profile/michael.dunphy8764/viz/2020InRewind-MySpotifyMusic/Dashboard>

Colors

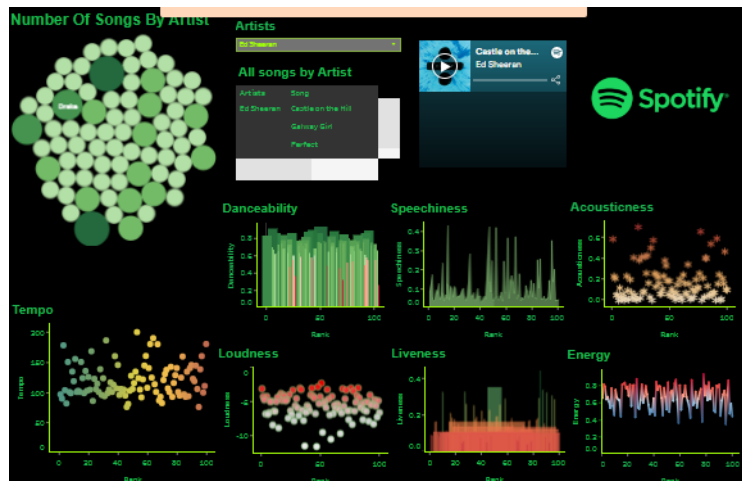
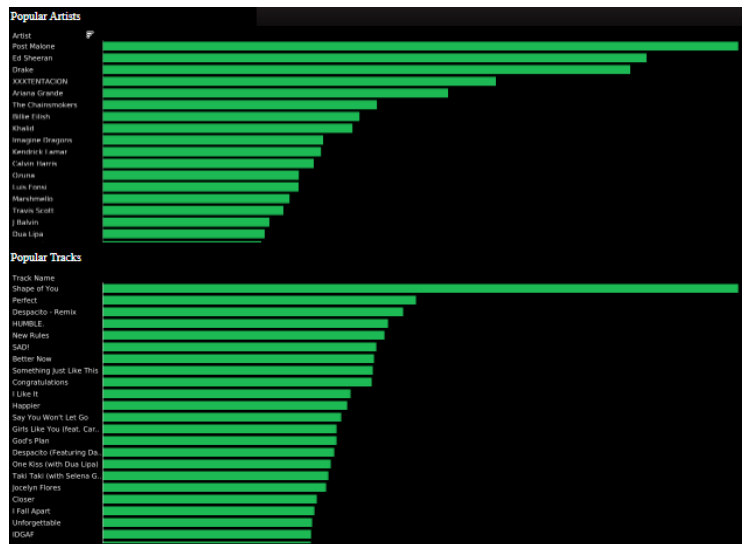
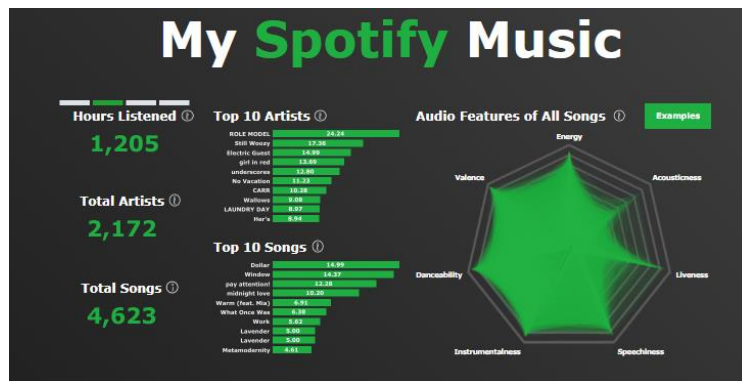
We chose to utilize green, black and white as these are the official [Spotify Colors](#) they utilize with their application.

What are we predicting?

Utilizing a recommender model we hope to allow user input to provide recommendations to what songs appeal to them based on similar songs and artists. The elements include different themes such as valence, acoustics, artist, genre, energy, & danceability.

Basic Design Concepts for Dashboard

- Utilize global variables to show trends over time based on multiple metrics
- Visualizations will be shown utilizing a multitude of graphs with the ability to filter the based-on user input, popularity of artists, songs, genre, and audio features.



Roles and Responsibilities

- Data Cleaning – Juniper
- Webpage Design – Choua and John
- KNN Recommender Model - John Espinoza
- Tableau Design – Zach, Tom, Choua
- Final Paper/Report – All