



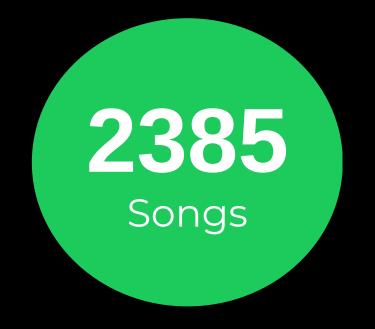
CSB311 Spring 2024

SPOTIFY'S BEST SONGS FROM 2000 TO 2023



DATASET DESCRIPTION

- → Top 100 songs for every year from 2000-2023
- → The characteristics values were generated by extracting data from a playlist on the user's Spotify account using the web tool http://organizeyourmusic.playlistmachinery.com/, which analyzes attributes such as BPM, danceability, speechiness, and popularity of each song.









RESEARCH QUESTION

How has the evolution of musical characteristics, artist prominence, and genre trends on Spotify shaped the landscape of popular music over the past two decades?



DATASET TERMINOLOGY I

TOP GENRE

The genre of the song.

BPM

BPM (Beats Per Minute), tempo of the song.

ENERGY (0-100)

Shows the level of energy in a song. The higher the value, the more energetic a song is.

DANCEABILITY

The higher the value, the easier it is to dance to this song.

DB

Represents the volume/loudness of the song. DB stands for Decibel.



DATASET TERMINOLOGY II

LIVELINESS

The higher the value, the more likely the song is a live recording.

VALENCE

Describes the musical positiveness conveyed by a track. Tracks with high valence sound more positive.

ACOUSTICNESS (0-100)

Measures how acoustic the song is. A song with a higher value for acousticness has less singing.

SPEECHINESS (0-100)

Measures how much singing there is in a song

POPULARITY (0-100)

Measures how popular a song is on Spotify



Why was the dataset identified?

Rationale

The dataset's focus on top-performing songs each year ensures that the analysis is grounded in music that has had significant cultural impact, providing insights into the mainstream music landscape.











EXPLORATORY DATA ANALYSIS (EDA)







67.03
Average
Danceability





54.23
Average
Valence

10.11
Average
Speechiness

SD: 16.16



RESEARCH QUESTIONS

- 1. Which artist has been on the top 100 playlist the most amount of times from 2013-2023 (in the last decade)?
- 2. How do the characteristics of top songs in different years compare to each other?
- 3.To what extent does the average speechiness of songs differ among various genres?
- 4. Are there any correlations between danceability and bpm within specific genres (such as KPOP, Dance Pop, etc.)?
- 5. How have genre preferences among Spotify listeners evolved over time?
- 6. How have the top three dominant genres changed over the years?



Tableau Dashboard

An overview of our datasets in our dashboard addressing these different research questions







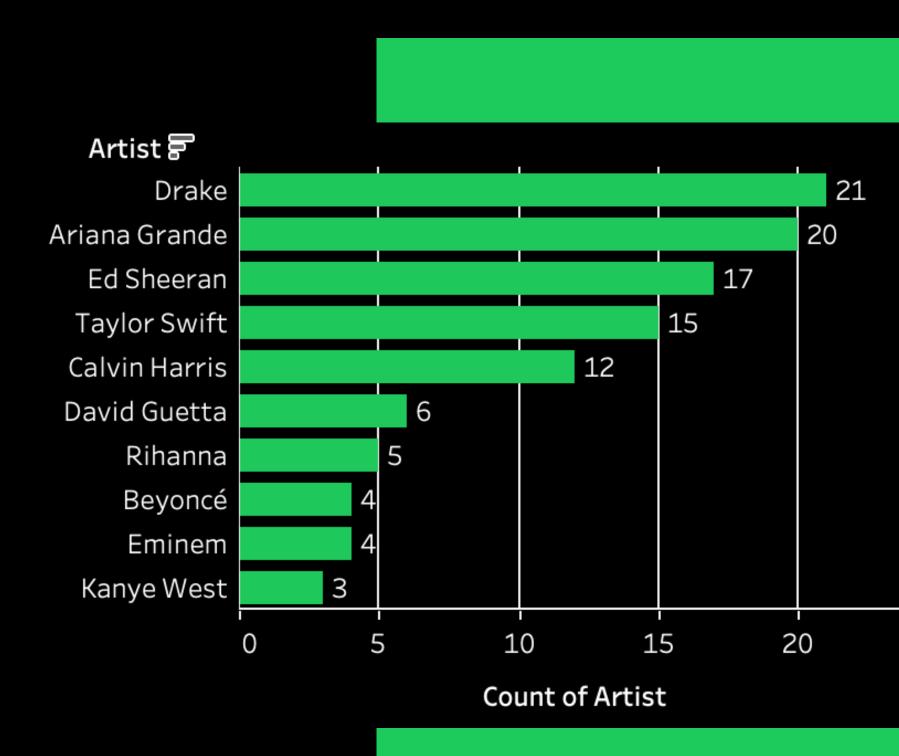




TOP 10 ARTISTS

Showcasing the top artists and top 3 artists' percentage of music out of the top 10 artists' total songs filtered by 2013-2023

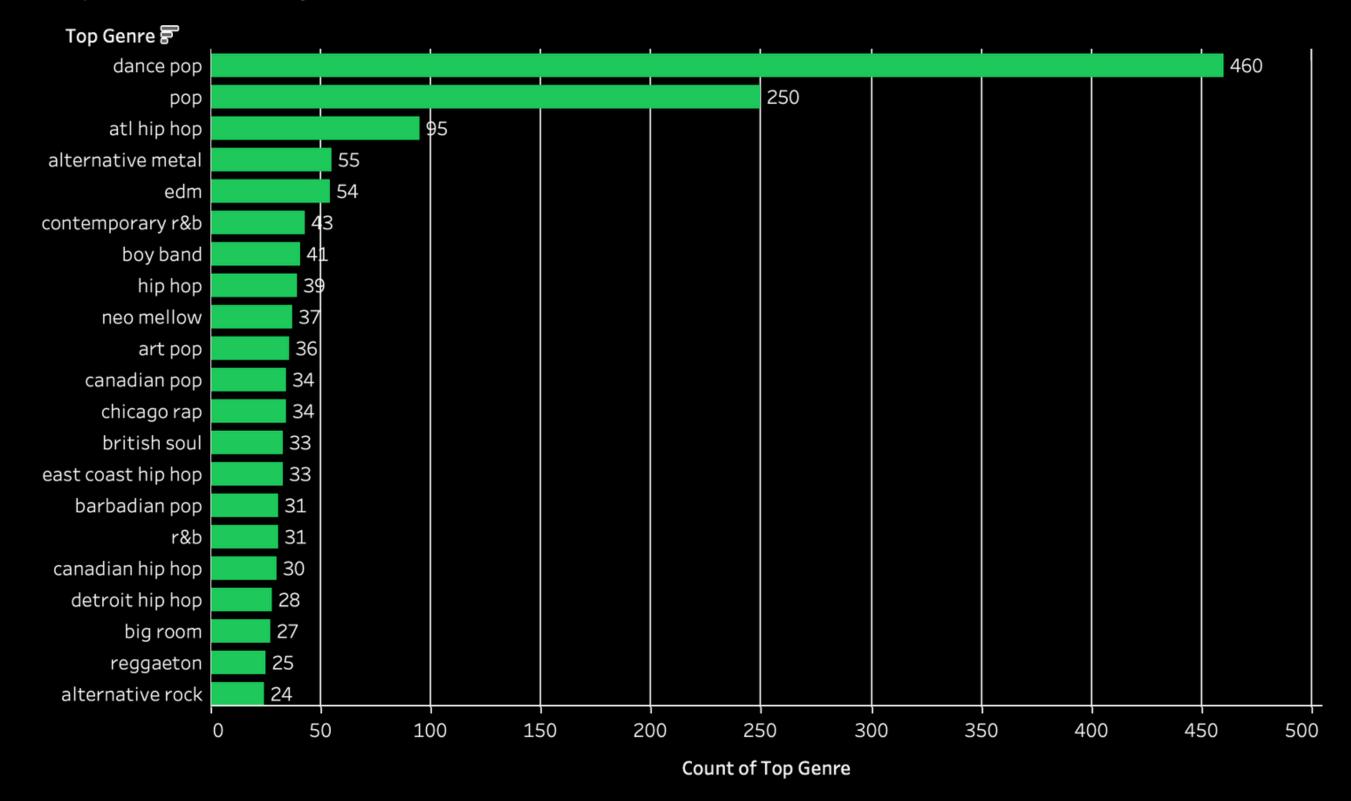






MOST POPULAR GENRES BY COUNT

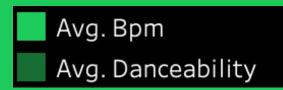
Most Popular Genres By Count

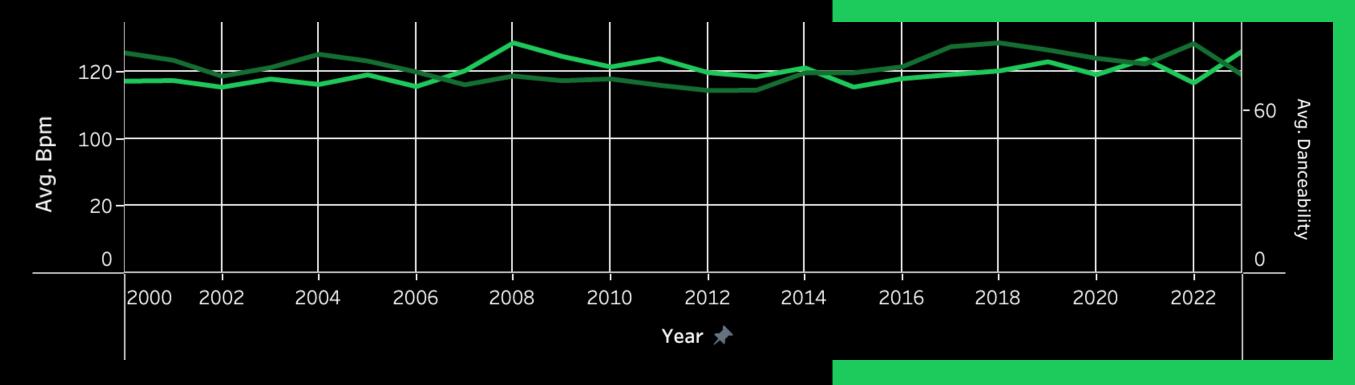




BPM VS DANCEABILITY

Showcasing how the difference in BPM of a song affects its danceability

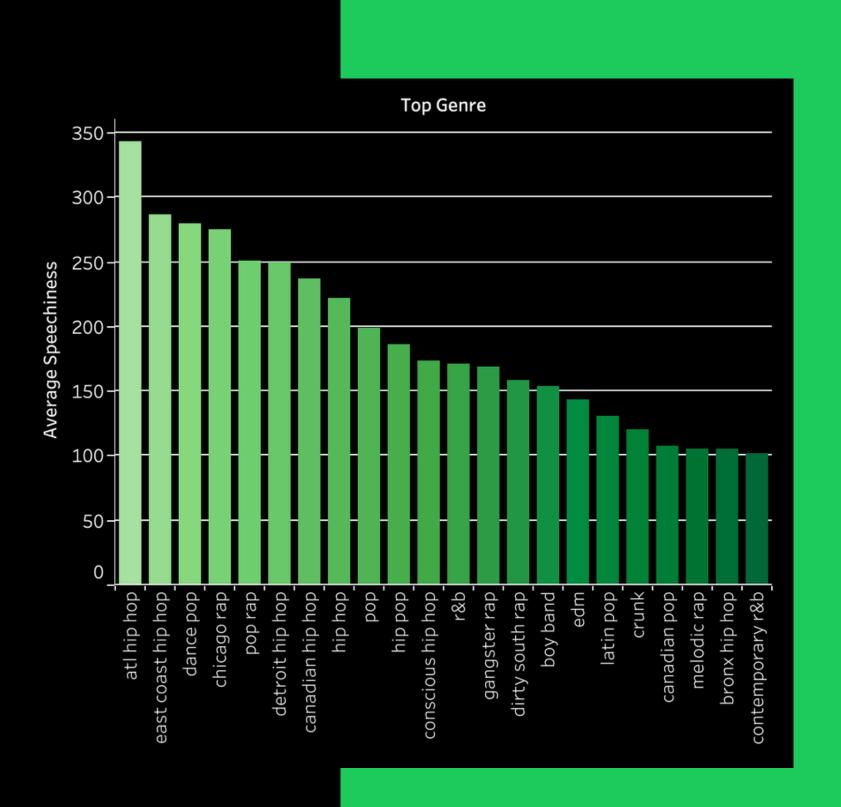






AVERAGE SPECHINESS BY GENRE

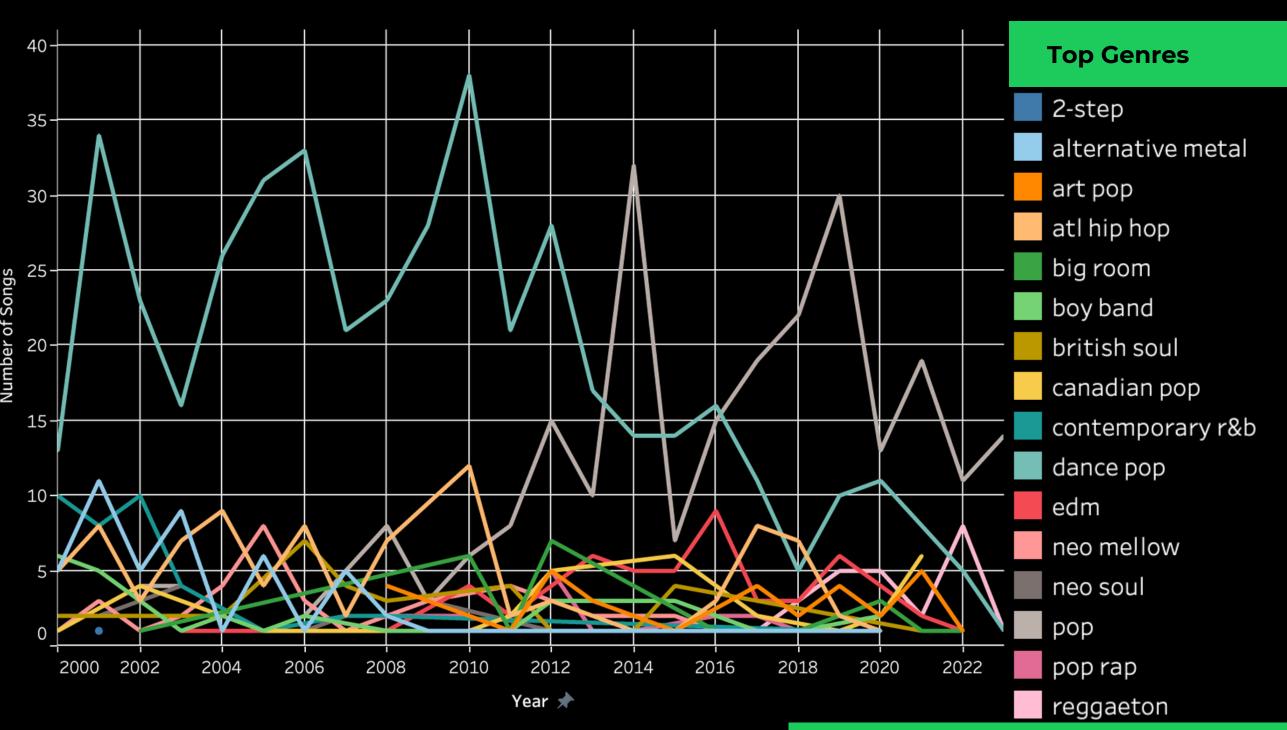
Showcasing the relationship between how many words (on average) are in a song to their respective genre.





MOST POPULAR GENRES

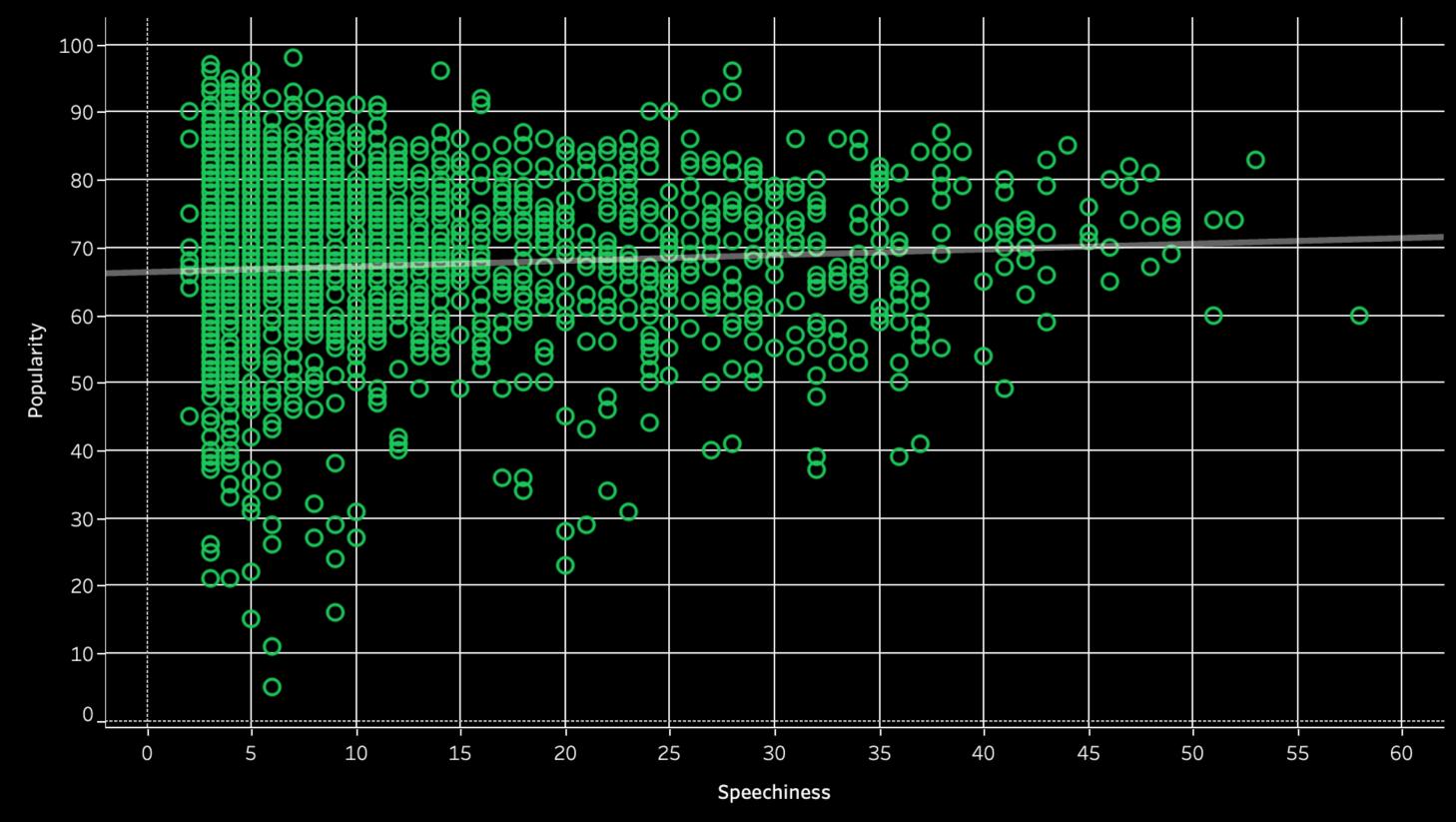
Showcasing the genres with the most billboard appearances per year.





POPULARITY VS SPEECHINESS

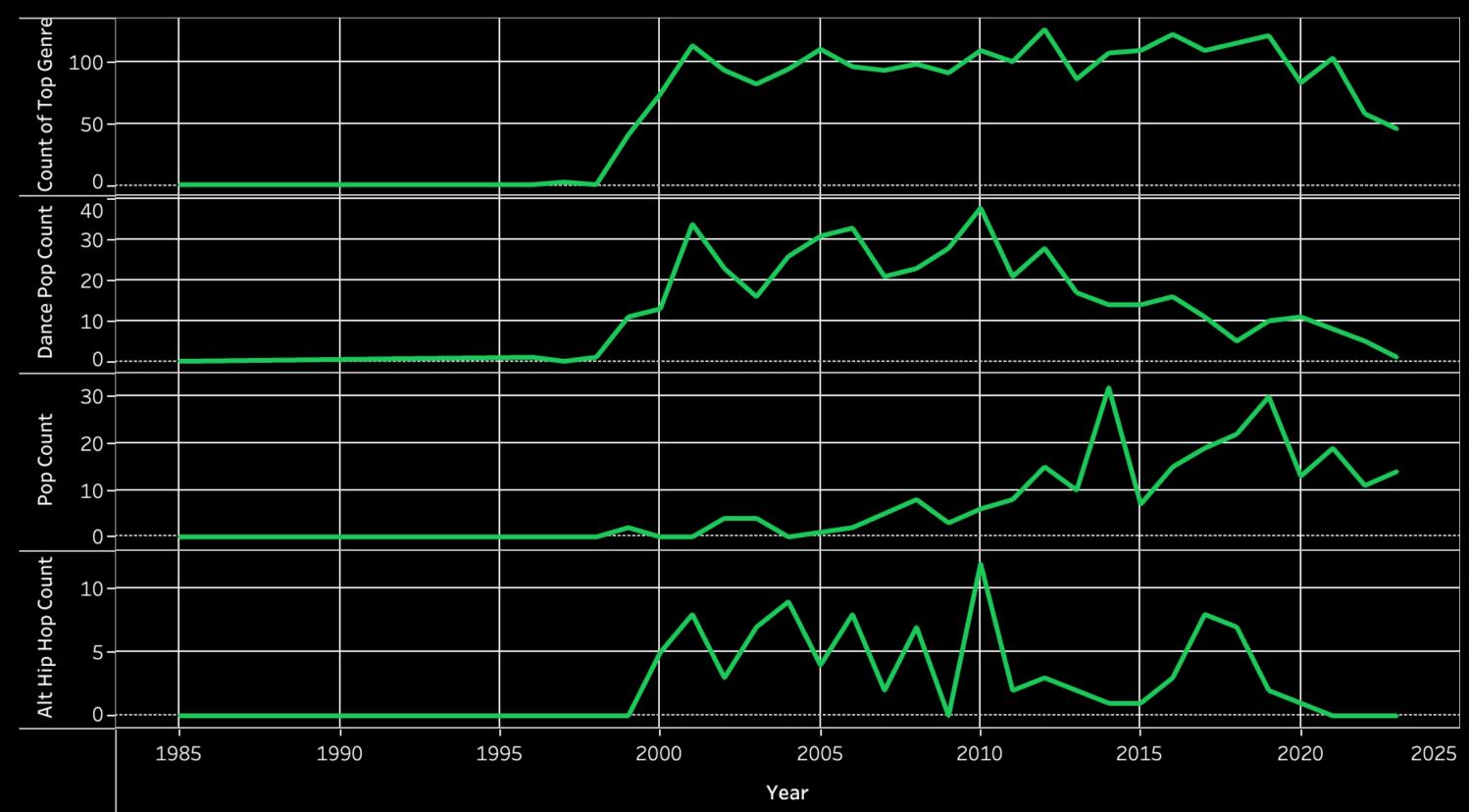
Popularity vs Speechiness





TOP 3 GENRES VS YEAR

Top 3 Genres vs Year









Thank You! QUESTIONS?

CITATION

https://www.kaggle.com/datasets/conorvaneden/best-songs-on-spotify-for-every-year-2000-2023/data