Goals (before Tues)

Kassidy:

* try to understand the code written, see if it applies to different data set (2020 spotify or whatever)
* Go to Dr. Ledford’s office hours Tues to ask about data - is it clean enough, how to clean further, etc

Maya:

* Presentation structure, questions, cohesive

**Variables**

artist\_name: the artist name

track\_name: the title of the track

is\_explicit: Indicates whether the track contains explicit content

album\_release\_date: The date when the track was released

genres: A list of genres associated with the track's artist(s)

danceability: A measure from 0.0 to 1.0 indicating how suitable a track is for dancing based on a combination of musical elements

valence: A measure from 0.0 to 1.0 indicating the musical positiveness conveyed by a track

energy: A measure from 0.0 to 1.0 representing a perceptual measure of intensity and activity

loudness: The overall loudness of a track in decibels (dB)

acousticness: A measure from 0.0 to 1.0 whether the track is acoustic.

instrumentalness: Predicts whether a track contains no vocals

liveness: Detects the presence of an audience in the recordings

speechiness: Detects the presence of spoken words in a track

key: The key the track is in. Integers map to pitches using standard Pitch Class notation. (0 = C, 1 = C#/Db, …)

tempo: The overall estimated tempo of a track in beats per minute (BPM)

mode: Modality of the track

duration\_ms: The length of the track in milliseconds

time\_signature: An estimated overall time signature of a track

popularity: A score between 0 and 100, with 100 being the most popular

* What music genre was most popular in 2023?
  + Make a table
* What trends do we see?
* Differences between genre popularity 2023 v. 2020
* Correlation between the key & popularity?
* Duration & popularity?
* Correlation between danceability & energy?
* Key & valence? ( are certain keys more ‘happy’)
* Distribution of danceability/valence/energy/loudness/acousticness/instrumentalness/liveness/speechiness…
* Danceability v energy
  + Only pop as of rn
  + Scatter plot

<https://docs.google.com/presentation/d/1xn7BBtNvUSAxagZqZu3FwDCuieIS8NoDpEmkHTrLJPo/edit?usp=sharing>

<https://docs.google.com/presentation/d/1BRm4641yJY6fEw7EQRg48Sgahk8_oCfX2mSJYlf3gwI/edit?usp=sharing>

<https://docs.google.com/presentation/d/105aHmLLDKm75YRVMPOSqyqE9L7NKgkwJFuCkEYW9yZ4/edit?usp=sharing>

**Trends we find:**

Canadian pop was the most popular pop genre

The Weeknd had the most pop songs

Taylor swift had the highest popularity

Most song durations average 3-3.5 mins

Range between loudness and explicit is slightly bigger than the range between non explicit and loudness , means are similar

Danceability and energy are not really correlated, but the data is subjective therefore we could look at how they were categorized/ find how they are measured

\*\*The Weeknd has 114.3M monthly listeners

\*\*Taylor Swift has 105.3M monthly listeners

What is Spotify?

Started in 2008, is an audio streaming service with more than 602 million users, with 236 million subcscribers in over 180 markets. With such a wide range of tracks, podcasts, and audiobooks it is a platform to serve many different people.