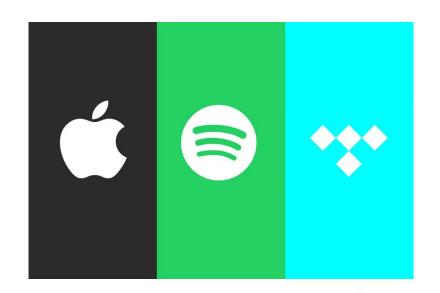
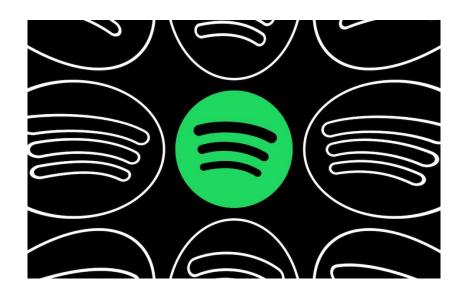
Music Streaming Wars: Predicting the Next Popular Songs

E. Berke Tezcan

Why is it important to predict which songs are going to be popular in the future?



Objectives & Data Analysis



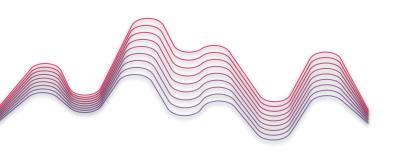
- Objective: Provide 3 insights into what makes a song popular or not
- Goal: Increase the competitive advantage of Spotify
- Sample size of 232,725 tracks
- Data from 2019

Popular = ?

- Popularity scores = # of recent plays
- Popularity scores of songs on Spotify's Top 100 tracks playlist
- Minimum score was 58
- Popular = Top 100 worthy

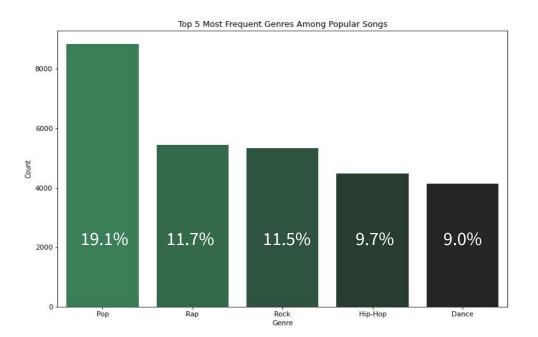


What were some of the most important attributes of a song?





Top 5 Genres within Popular Songs





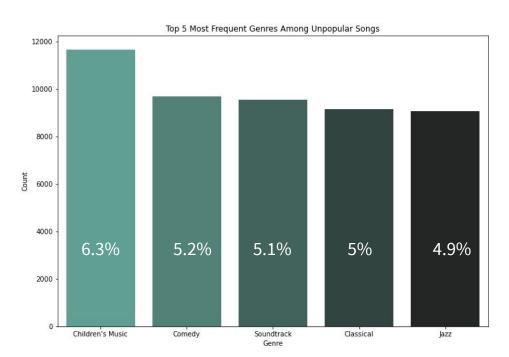






These account for 61% of all popular songs

Top 5 Genres within Unpopular Songs



These account for 26.5% of all unpopular songs



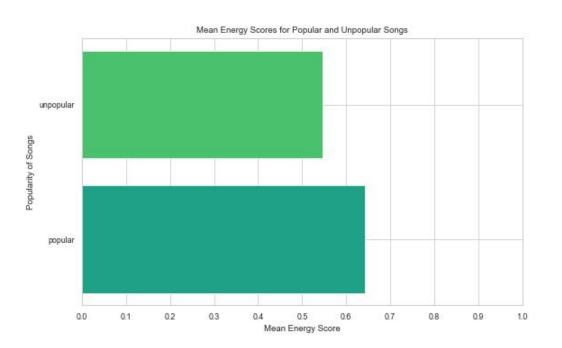






A perceptual measure of intensity and activity. Typically, energetic tracks feel fast, loud, and noisy.

Energy Scores of Songs by Popularity





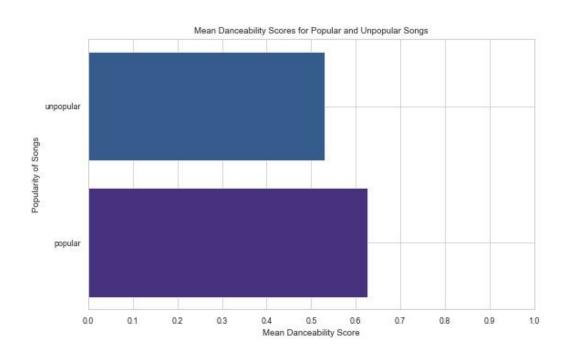


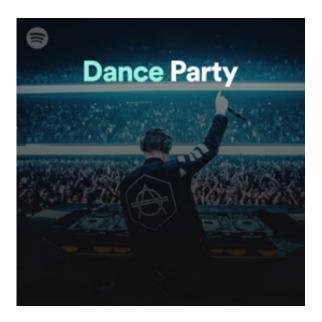




How suitable a track is for dancing based on a combination of musical elements including tempo, rhythm stability, beat strength, and overall regularity.

Danceability Scores of Songs by Popularity



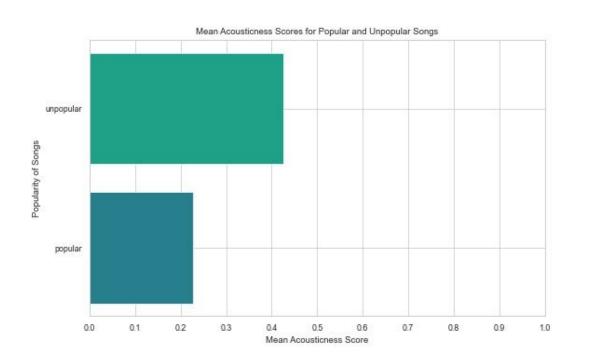






A measure of how much a song is electrically enhanced or modified.

Acousticness Scores of Songs by Popularity





Conclusions

- Popular songs tend to have Pop, Rap, Rock,
 Hip-Hop and Dance as their genres.
- More niche genres such as Children's Music,
 Comedy, Soundtracks, Classical and Jazz were more frequent among unpopular songs.
- Generally, popular songs are higher energy, danceable, and less acoustic.





For more information berketezcan@gmail.com or GitHub: ebtezcan

Images from:

- https://static.standard.co.uk/s3fs-public/thumbnails/image/2015/06/30/15/apple-music-spotify-tidal.jpg?width=968&auto=webp&quality=75&crop=968%3A645%2Csmart
- https://i.gadgets360cdn.com/large/spotify logo 1585741714525.jpg?downsize=950:*&output-quality=80
- Playlist cover photos from Spotify app
- http://deverstatic.com/pictures/850xX/art/music/crowd,-concert,-black-and-white-photo-218480.jpg