TOP 50 Songs on Spotify 2019

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2020 is right around the corner and its time to see what we got from the top 50 songs that played on Spotify.

I took the data set from Kaggle.com.

Link: https://www.kaggle.com/leonardopena/top50spotify2019

The Data set contains the top 50 listened songs in the world by Spotify.

The data contains 50 songs 14 variables Data were taken from: http://organizeyourmusic.playlistmachinery.com/

Those are the variables:

1. Track Name-name of the Track
2. Artist Name-name of the Artist
3. Genre-the genre of the track
4. Beats Per Minute-the tempo of the song.
5. Energy-The energy of a song - the higher the value, the more energetic song
6. Danceability-the higher the value, the easier it is to dance to this song.
7. Loudness DB.-the higher the value, the louder the song.
8. Liveness-the higher the value, the more likely the song is a live recording.
9. Valence -the higher the value, the more positive mood for the song.
10. Length -the duration of the song.
11. Acousticness -the higher the value the more acoustic the song is.
12. Speechiness -the higher the value the more spoken word the song contains.
13. Popularity-the higher the value the more popular the song is.
14. Nation – the origin country of the artist name.

From this Dataset I tried to figure out what is the attributes that are common in some of the songs in the list.

I create all the exhibits with "Tableau" Version 2019.3.0 .

The dataset entered to "Tableau" using "Pandas" library in python and added to MySQL.

In my opinion the popularity rate of song is the most important for a song to be successful so I try to measure the popularity with some other attribute and try to see if there is correlation with the popularity
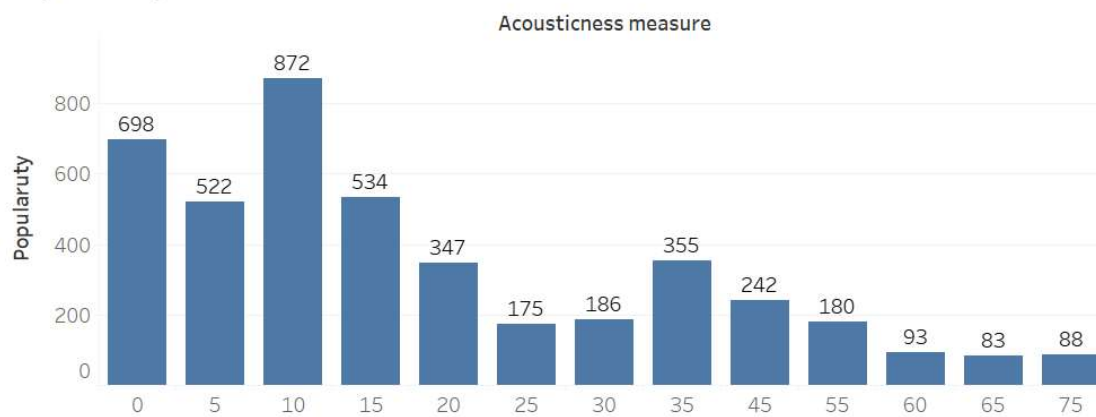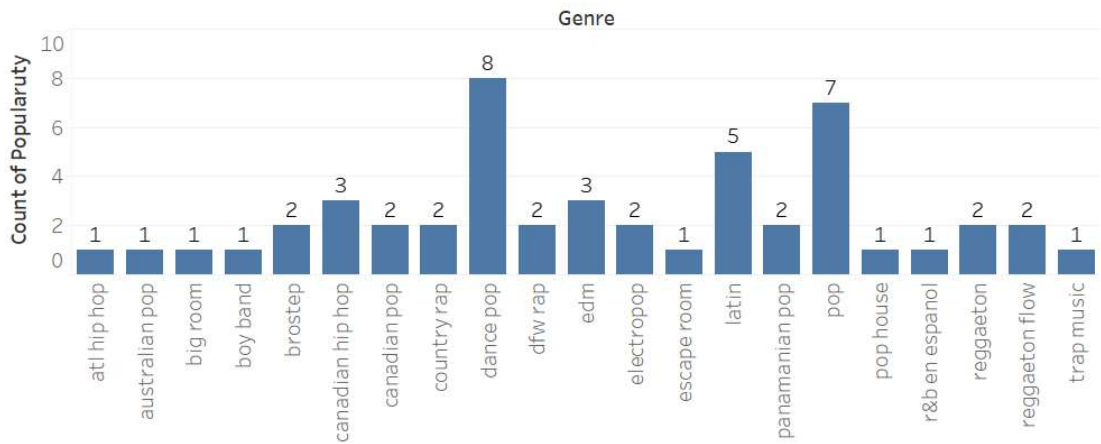
(exhibit 1)

Sum of Popularity - Length

Songs Length
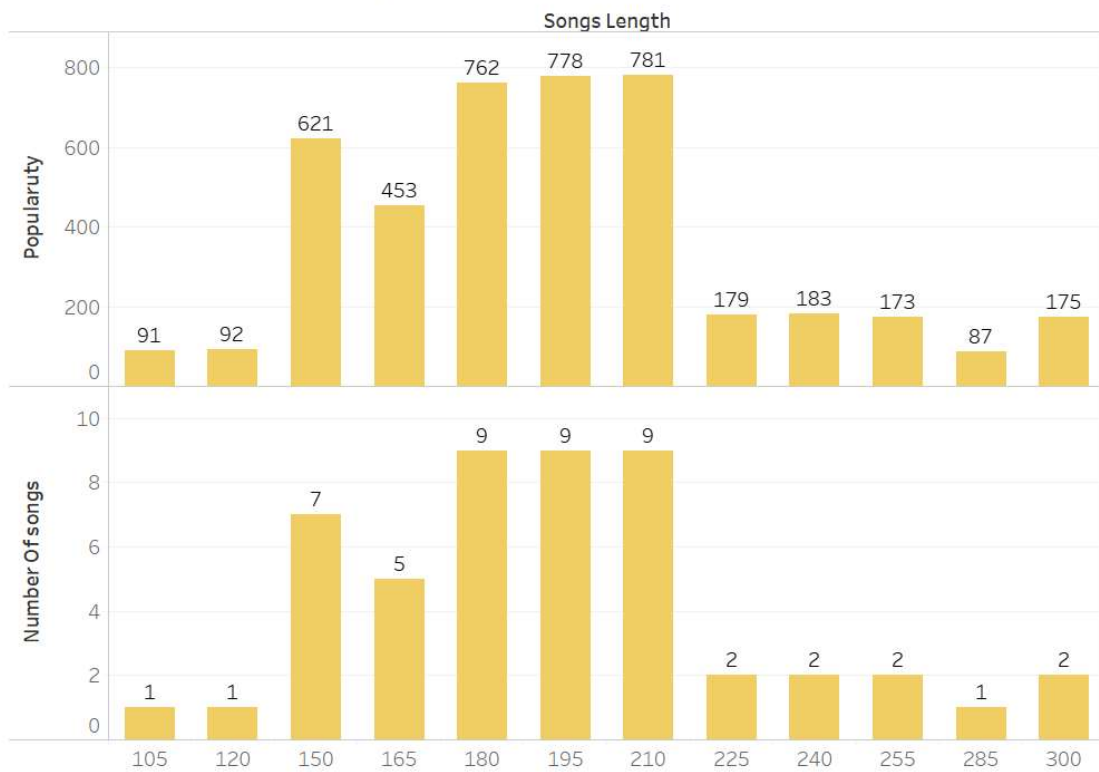
(exhibit 2)

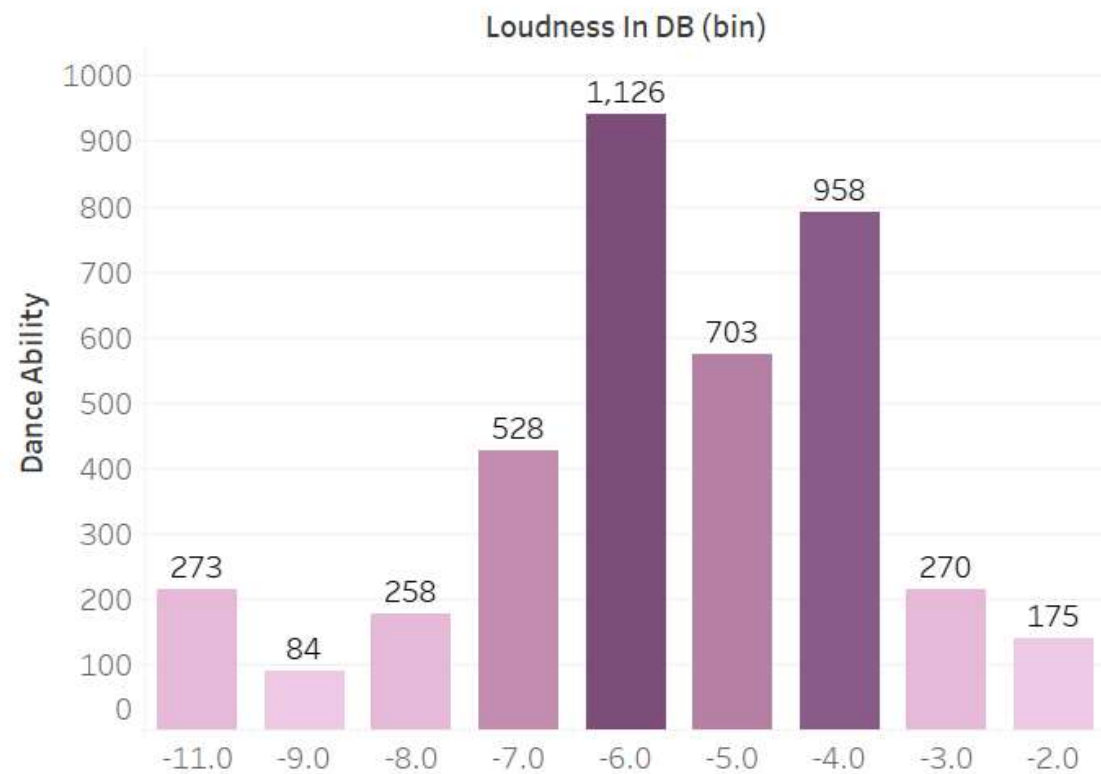## Popularity - Acousticness
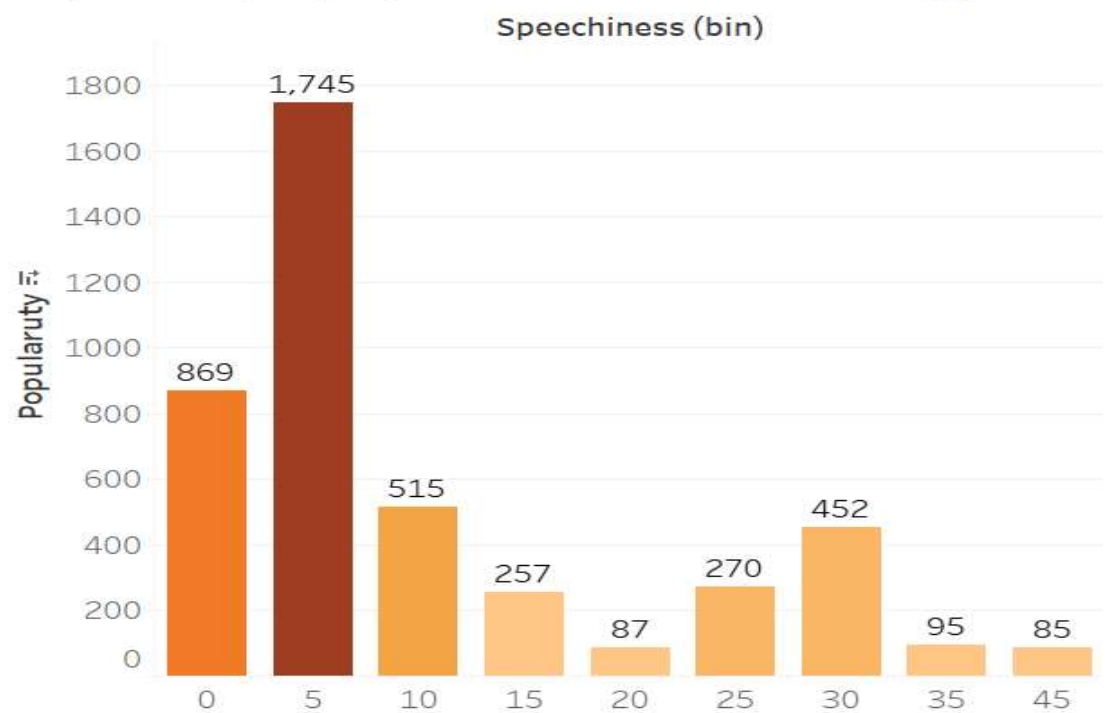
Acousticness measure

(exhibit 3)

Genere - Popularty Count

(exhibit 4)

Loudness in DB by Dance Ability with Popularity color

(exhibit 5)
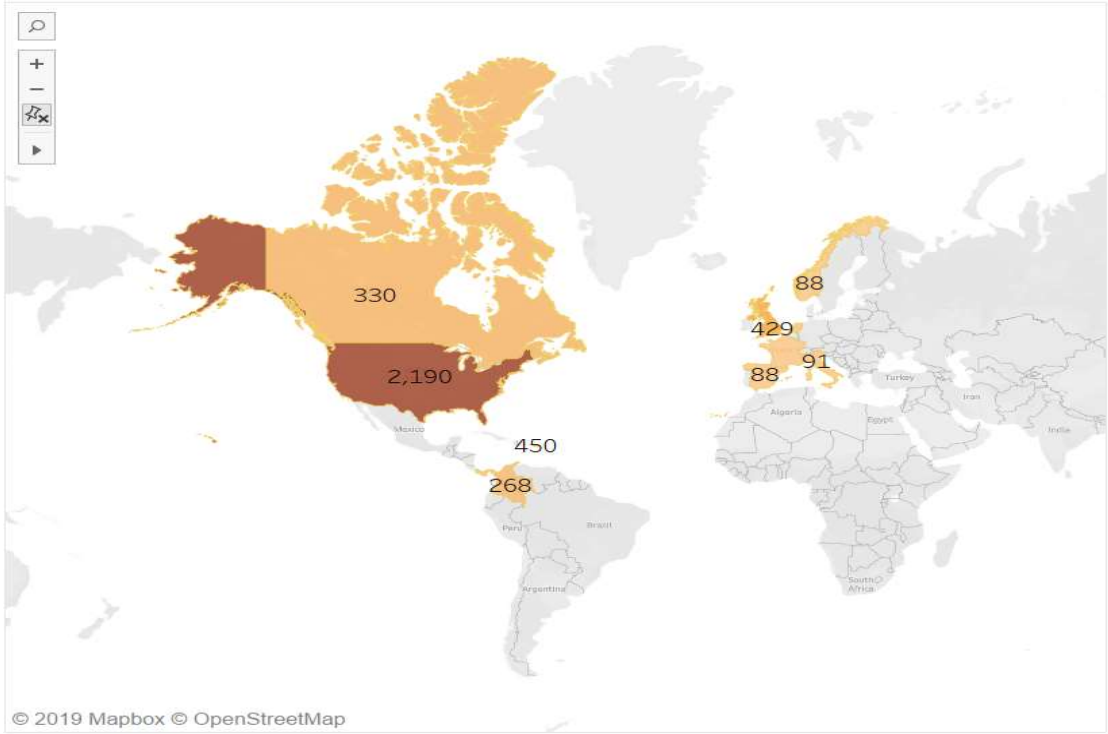
Popularity by Speechiness with Energy

Speechiness (bin)

Other Interesting exhibits

BPM by Dance Ability

Popularity Map
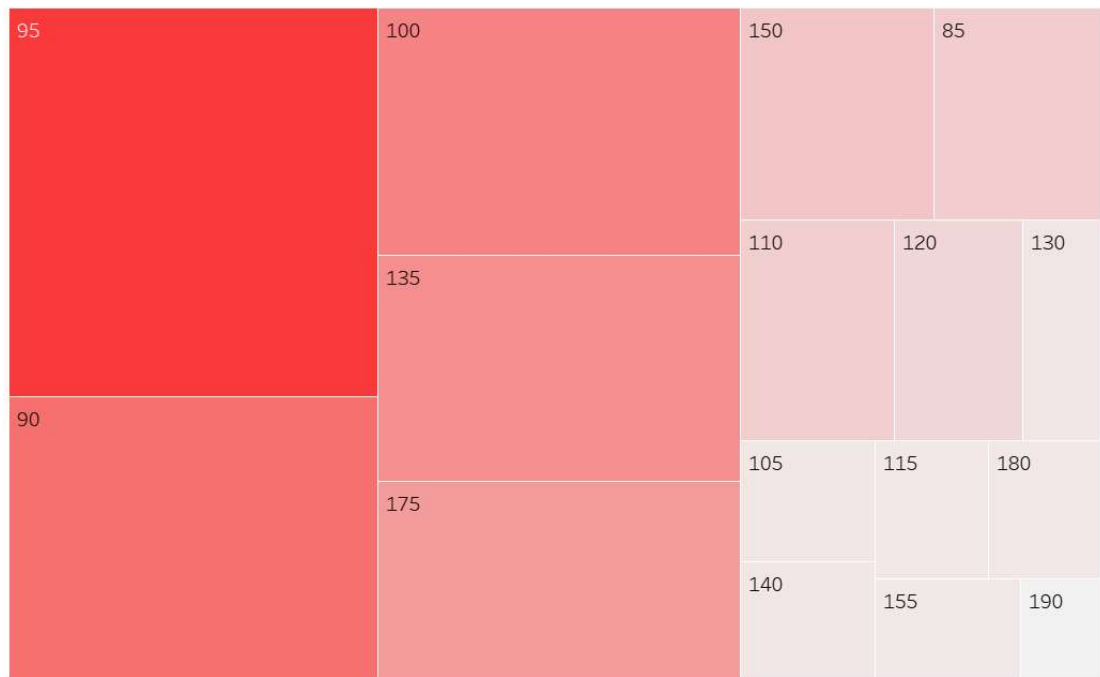
© 2019 Mapbox © OpenStreetMap

findings

From all those figures we can describe the optimal song from all the top 50 songs.

Like I said at the begging the main attribute that I measure is the popularity , In my opinion this will be the main ingredient for song to be at any top Song ratings.

So, from **exhibit 1** we can see that the songs that get the highest popularity rate are the song with the length between 180 – 220 seconds that mean 3:00-3:40 minutes. Another item of data that comes up from this exhibit is the number of the song that get the highest popularity rank 27 in total.

From **exhibit 2** we can see that the less song is Acousticness is more popular

From **exhibit 3** we see that the genre of pop or dance pop get the highest popularity rate.

From **exhibit 4** we can see that the dance ability rate also affect on the popularity additionally The loudness in DB also affect the dance ability .the loudness in DB should be around -4 to -6

The last two attribute that I checked is the Energy and the Speechiness we can see clearly from **exhibit 5** that the less song is speechiness he get more popularty and energy rate.

So after we got all those information we can create the profile of the ultimate song of 2019.

conclusion

First the song should be in the pop/dance-pop genre, its also should be between 3:00-3:40 length. we also see that its should have the ability to dance with this song with loudness of -4 to -6 DB ,finally the less speechiness rate get you higher energy rate that led to more popularity rate.