

Spotify Genre Popularity

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The Data

We have two csv files.

One contains a list of 39 playlists compiled from different genres.

The other file contains a collection of thousands of songs. There are a range of measures from the songs. Measures such as danceability, energy, duration, and genre.

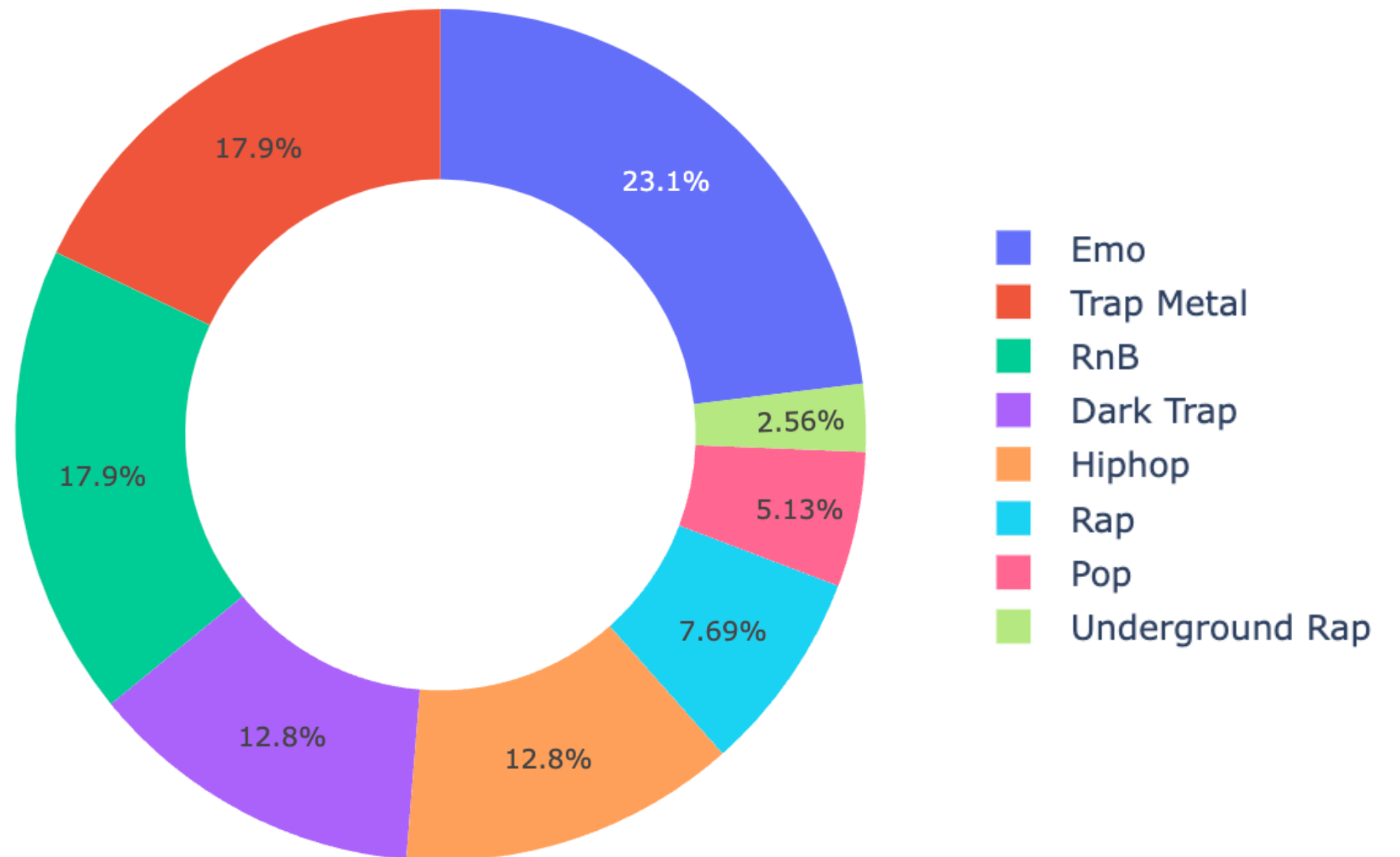
Objective

Identify the more popular genres of music and observe how important measures can determine that.

Four Questions That Were Addressed

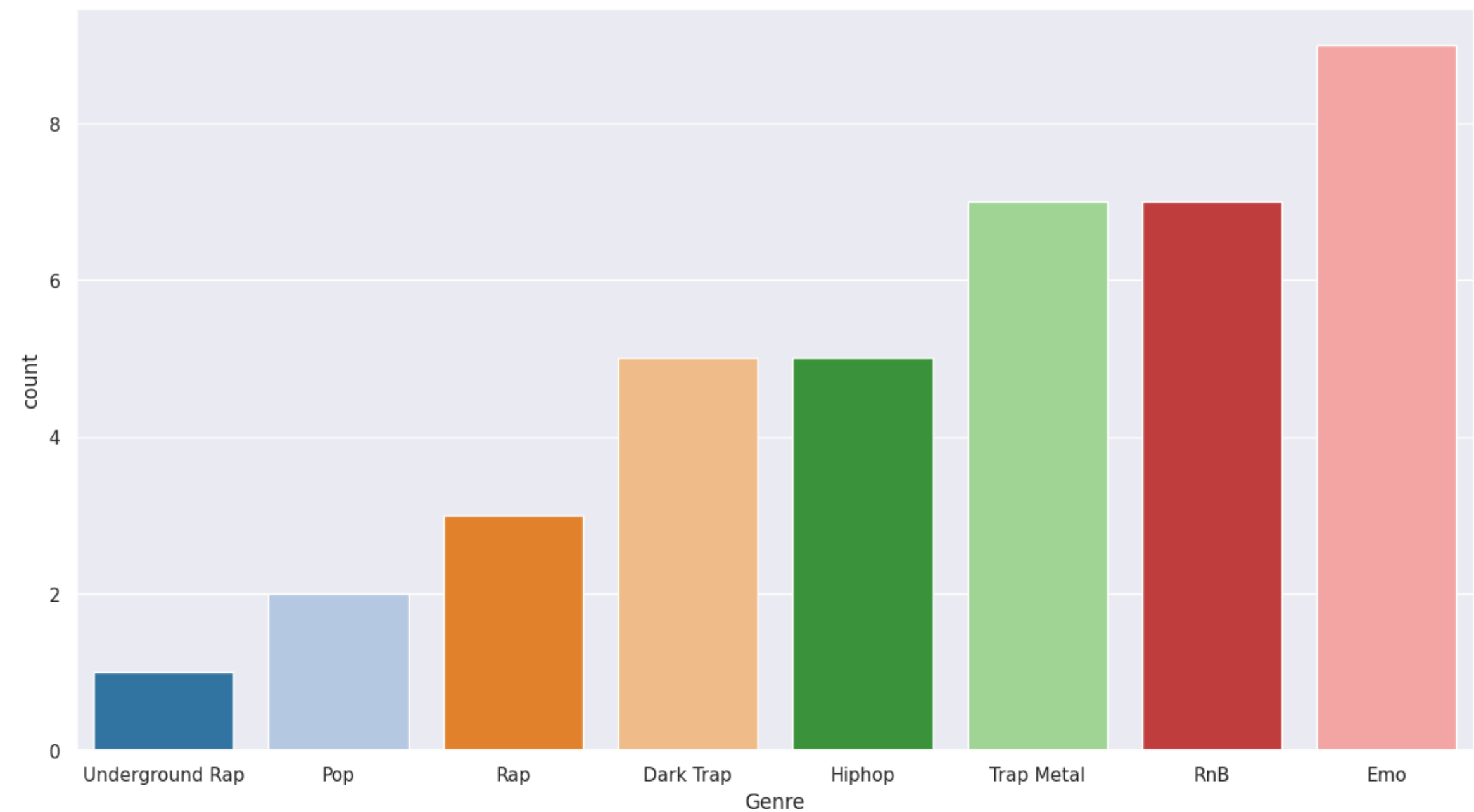
- What are the most popular genres from the set of playlists?
- What are the most popular genres in the collection of songs?
 - What genres typically have the most danceability?
 - What genres typically have the most energy?

Playlist Collection Genre Composition



Playlist Collection

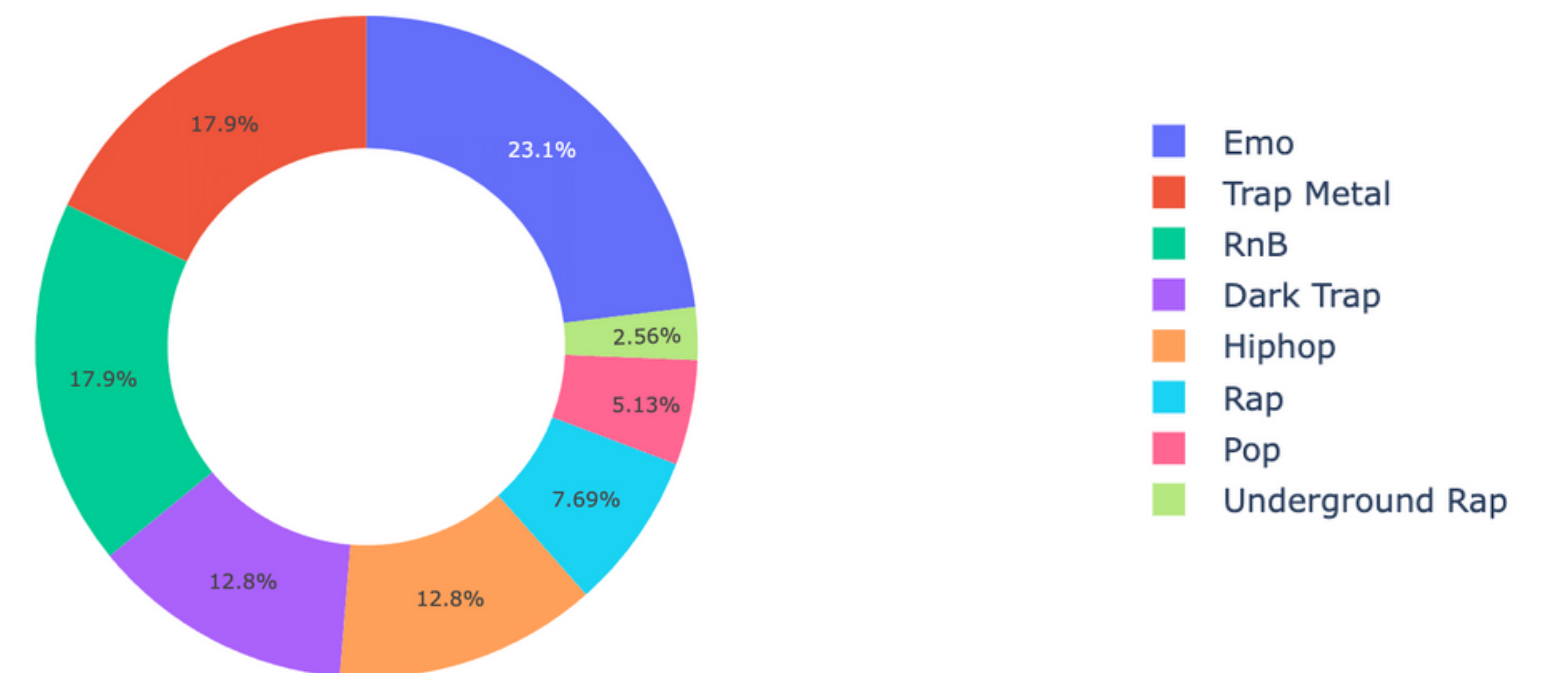
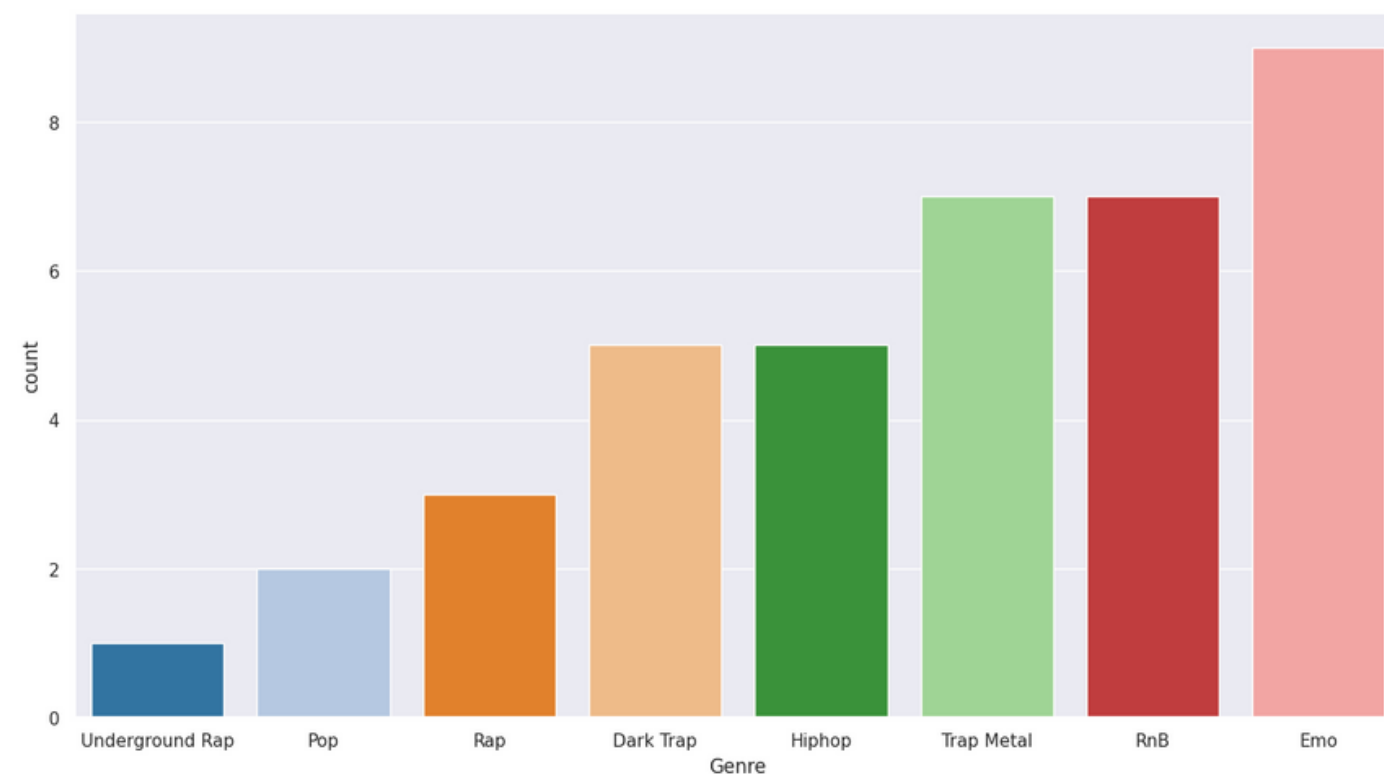
Genre Composition



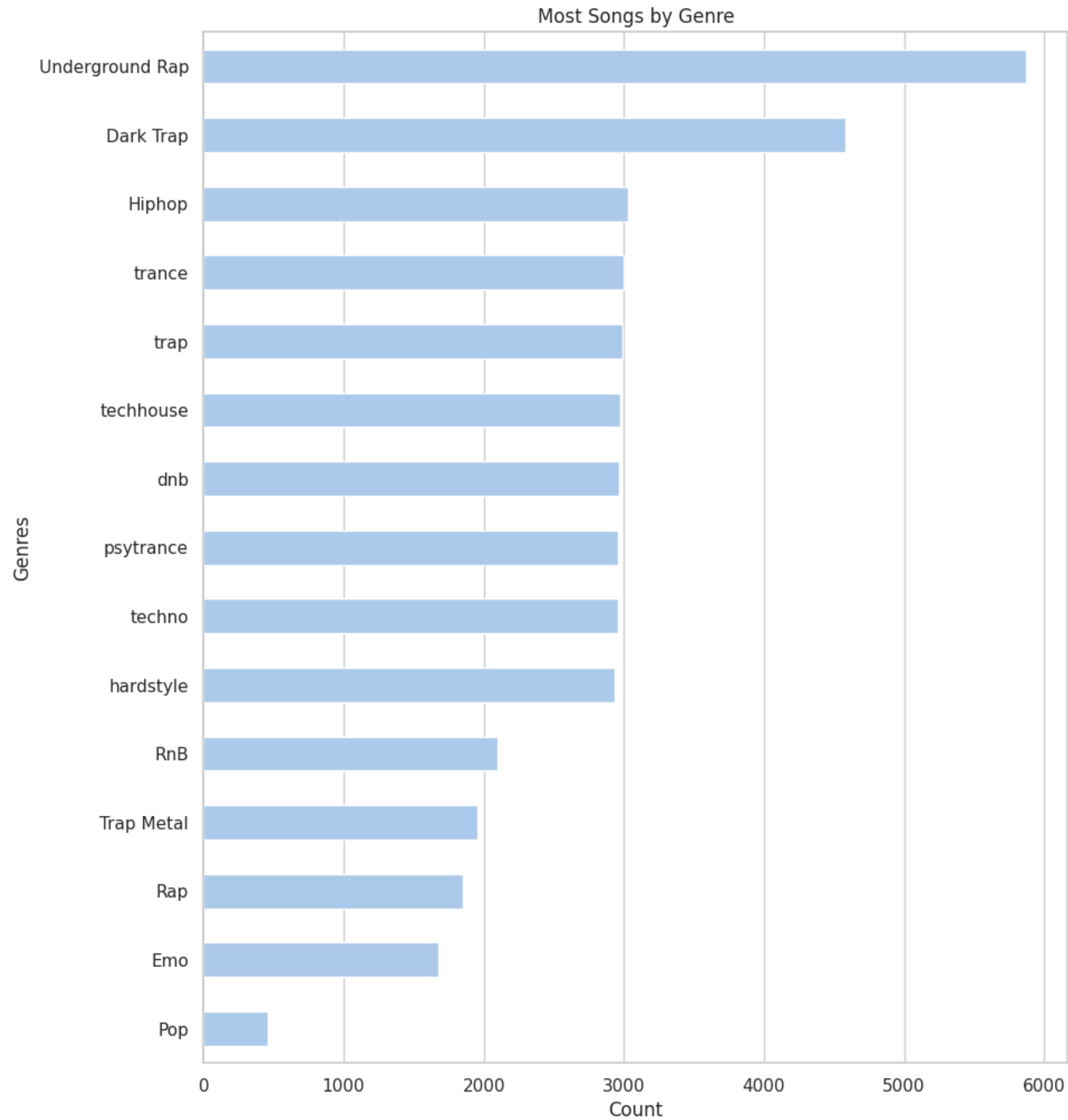
Q1. What are the most popular genres from the set of playlists?

It is clear to see from both the bar graph and donut chart that Emo playlists lead the charge in the set of 39 playlists. The 9 Emo playlists make up 23.1% of the set.

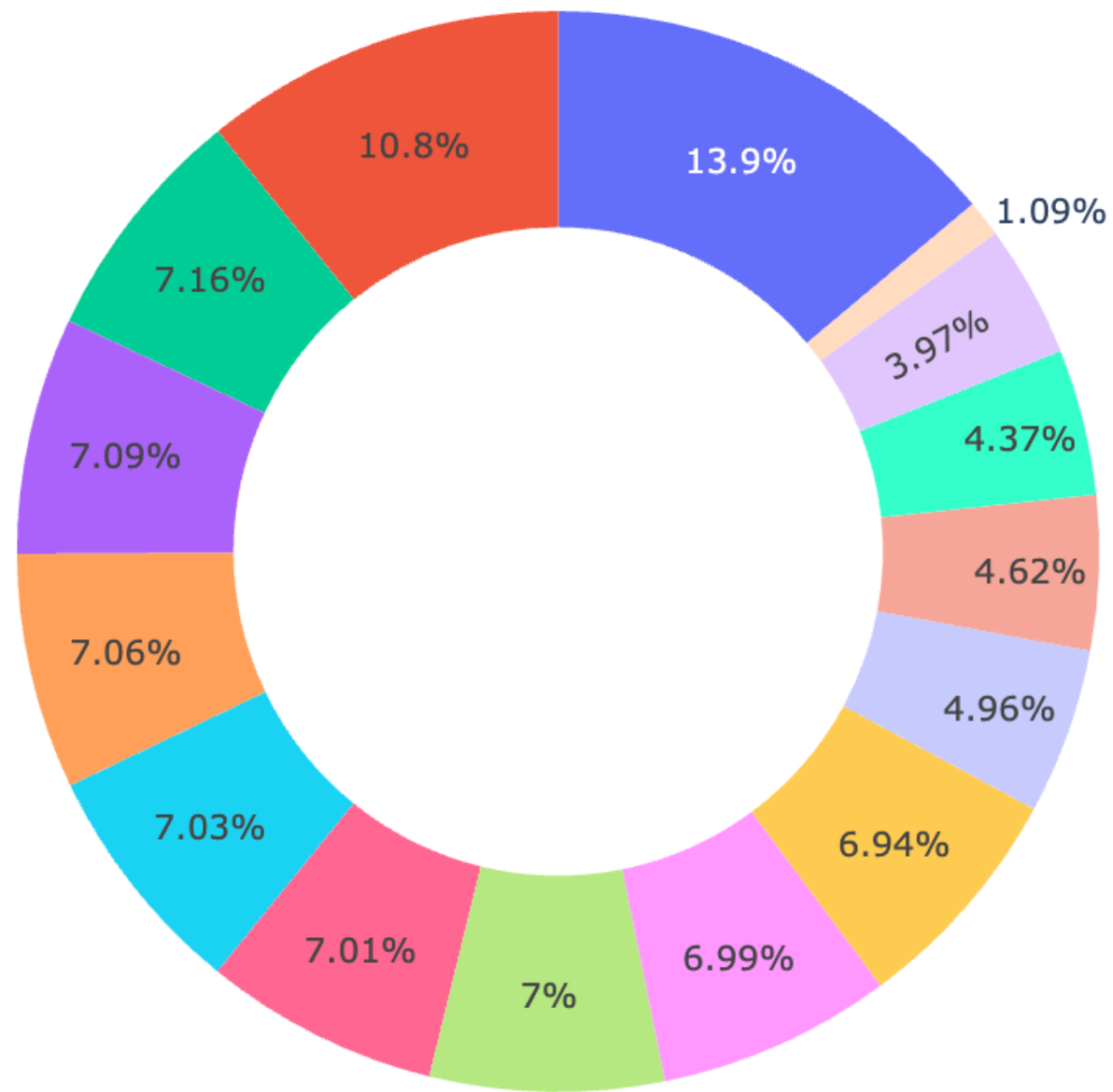
Trap Metal and RnB are not far behind and tied for second. With 6 playlists each in the set, these two genres each account for 17.9% of the set of playlists.



Song Library Composition by Genre

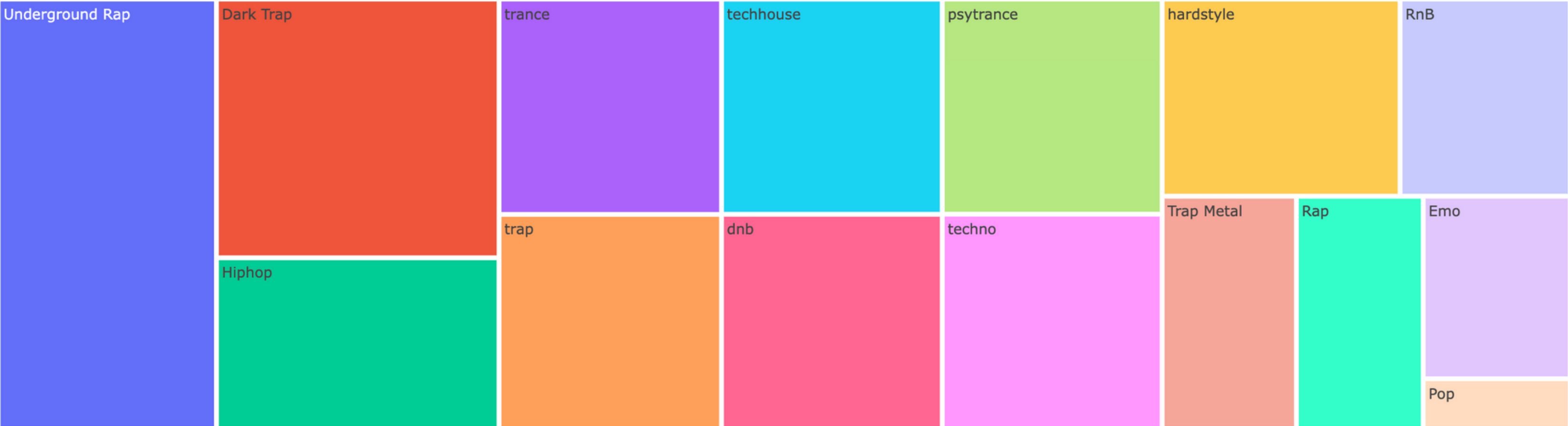


Song Library Composition by Genre



- Underground Rap
- Dark Trap
- Hiphop
- trance
- trap
- techhouse
- dnb
- psytrance
- techno
- hardstyle
- RnB
- Trap Metal
- Rap
- Emo
- Pop

Song Library Composition by Genre

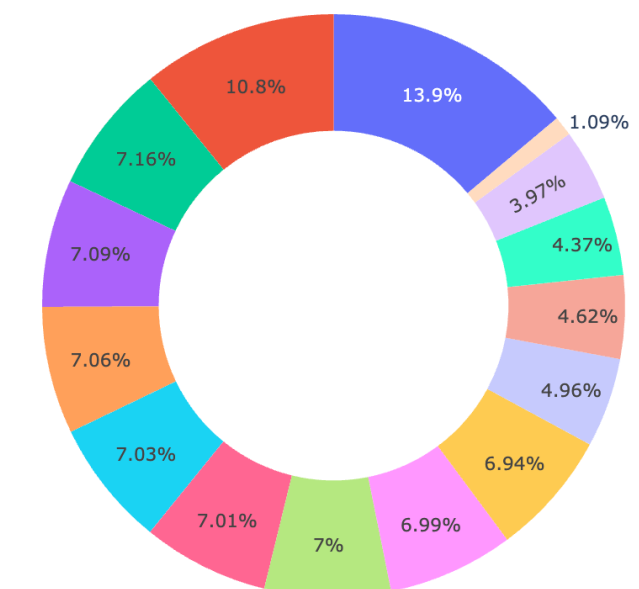
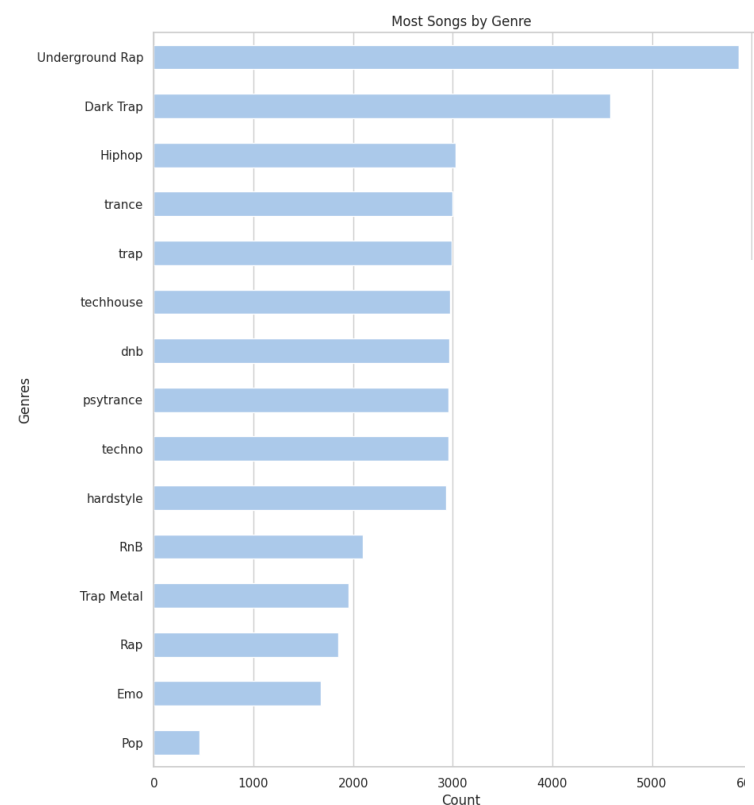


Q2. What are the most popular genres in the collection of songs?

We can see from the visuals that Underground Rap leads the pack with the most number of songs in the collection.

Dark Trap makes up a decent amount of the collection while a lot of other genres make up a similar percentage of the collection.

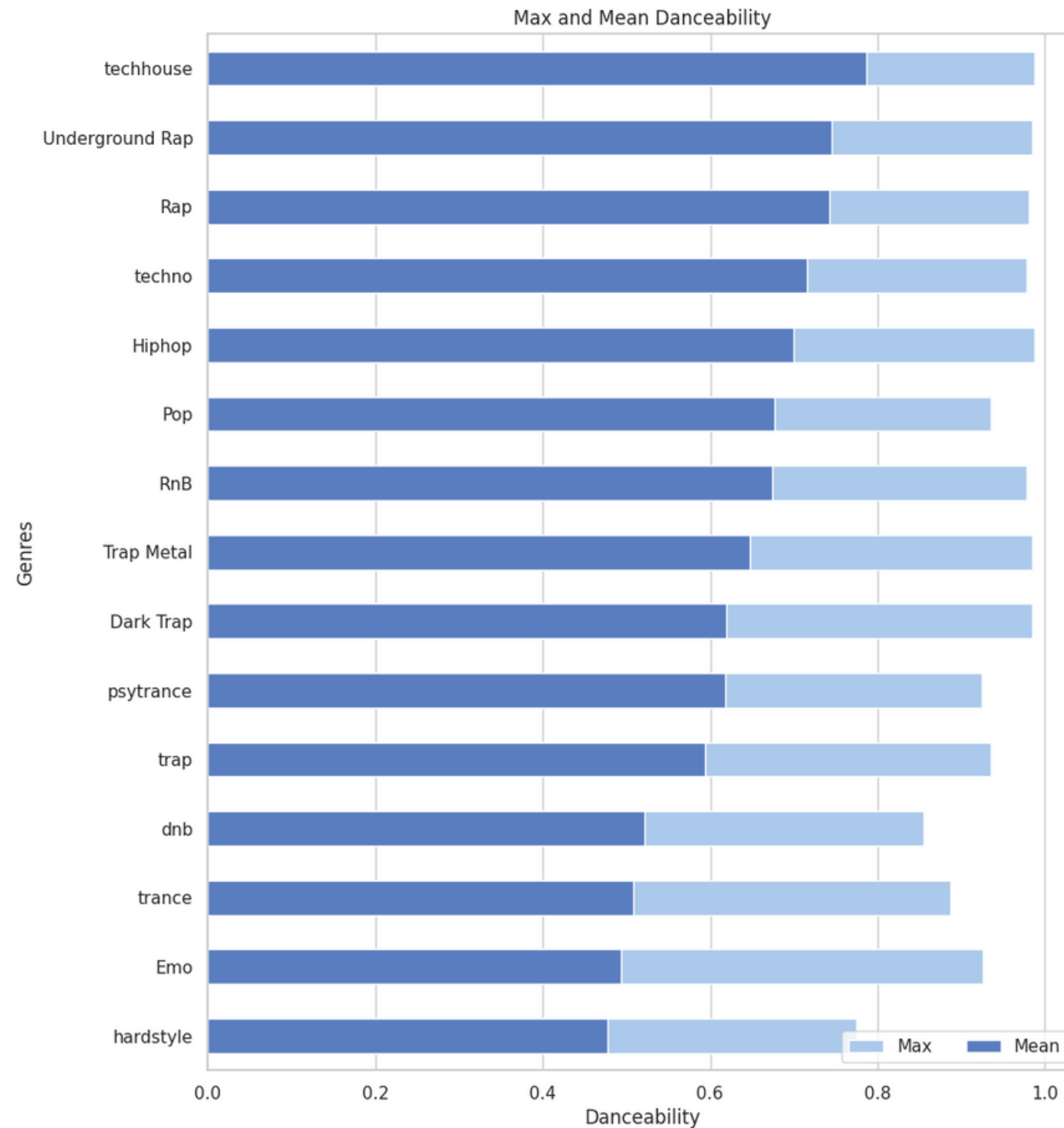
Surprisingly Rap is near the bottom while it's sub-genre dominates the collection.



Danceability by Genre

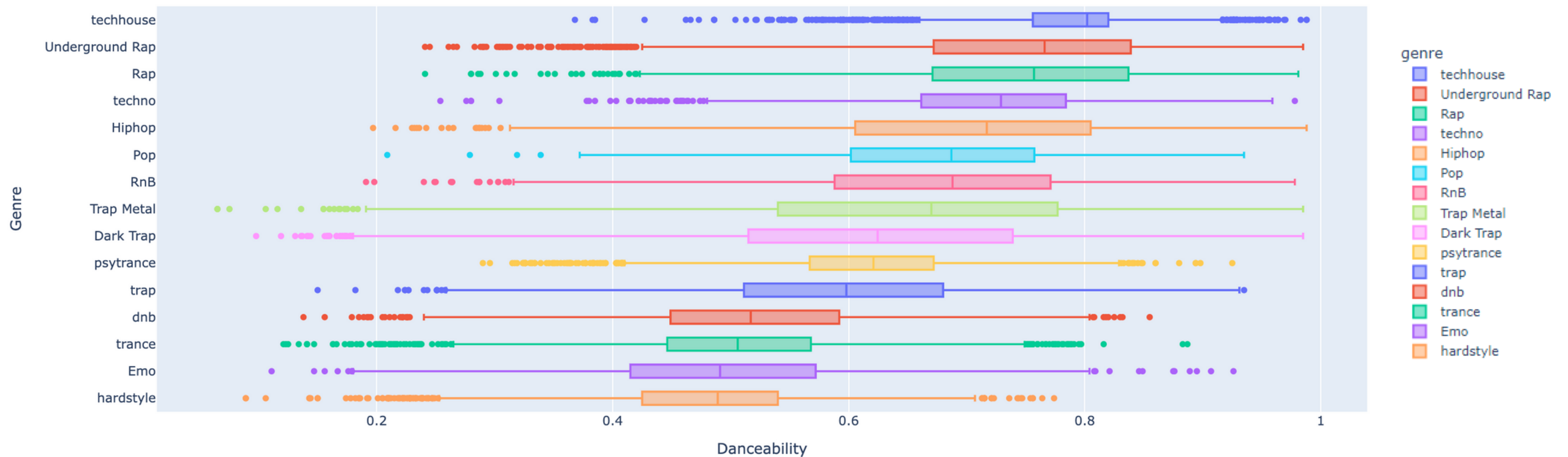
Danceability is a key measure for a song. It is a rating from 0 to 1 that indicates if a song can be easily danced to across a variety of listeners.

Here we take a look at the max and mean values from each genre.



Danceability by Genre

Box Plot of Danceability by Genre

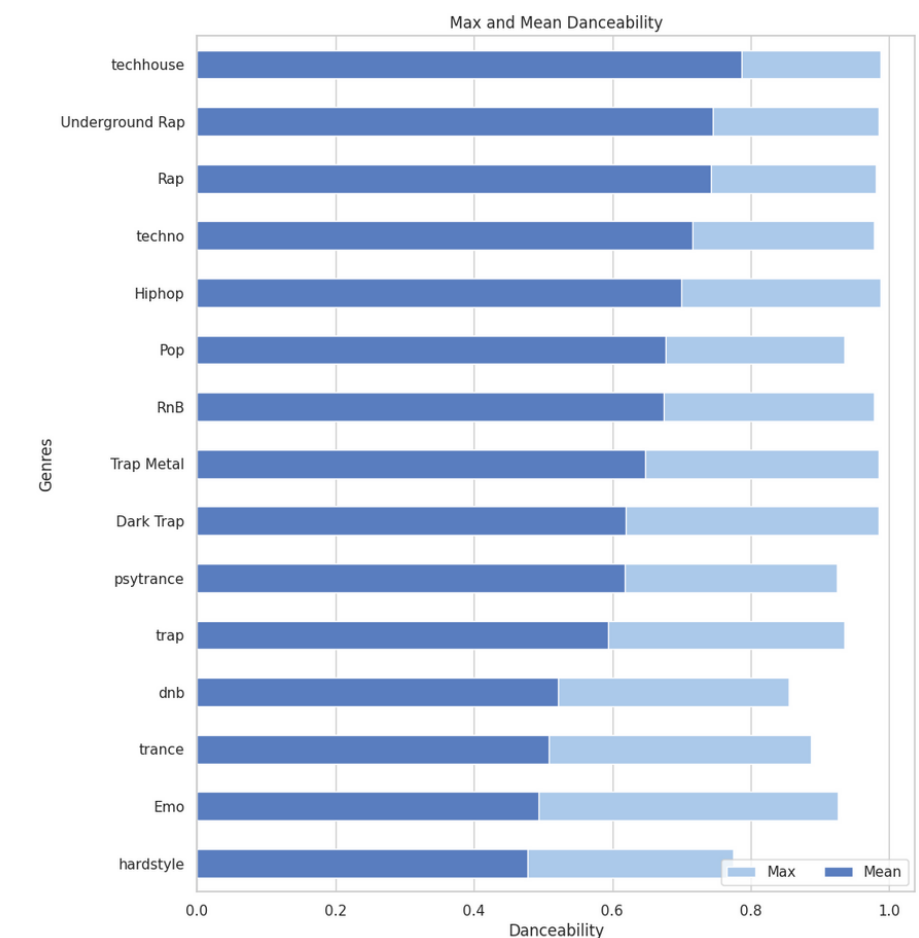
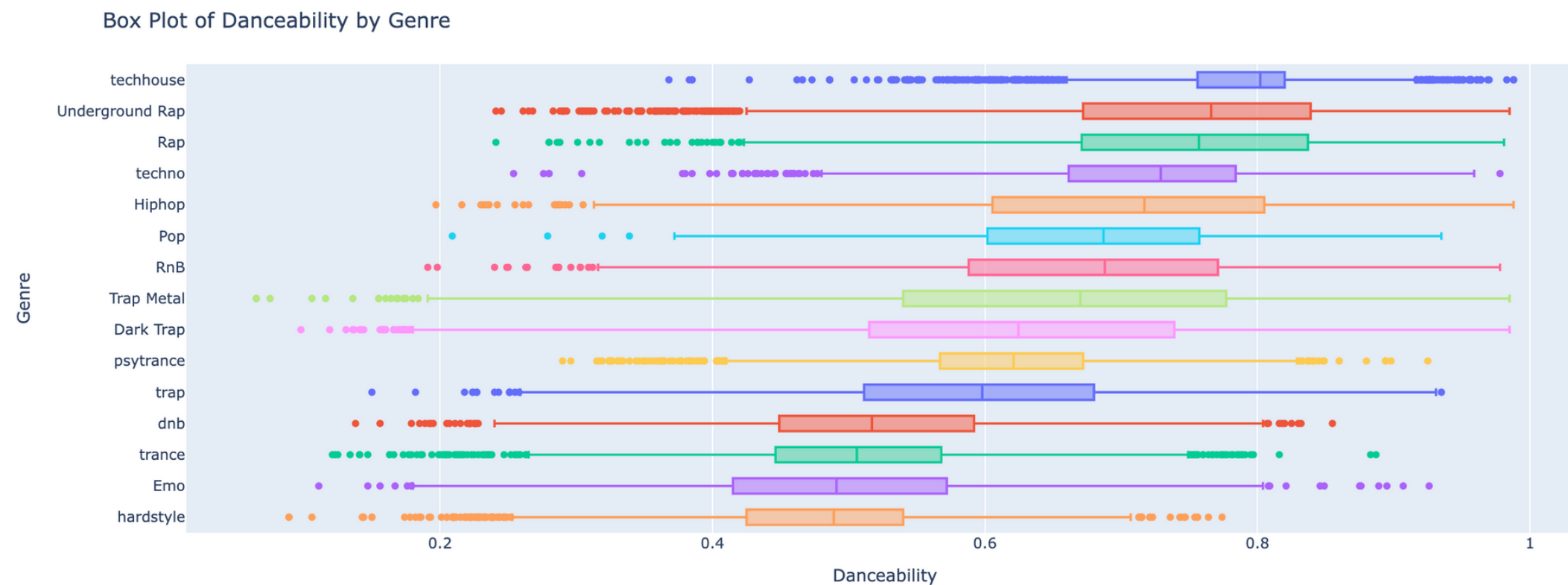


Q3. What genres typically have the most danceability?

From the charts we can see that most genres have songs that come close to the peak value of 1.

Based on ranking the mean values, Techhouse is in the lead followed by Underground Rap. What's notable but not surprising is that these genres are variations of the 3rd and 4th ranking genres; Rap and Techno.

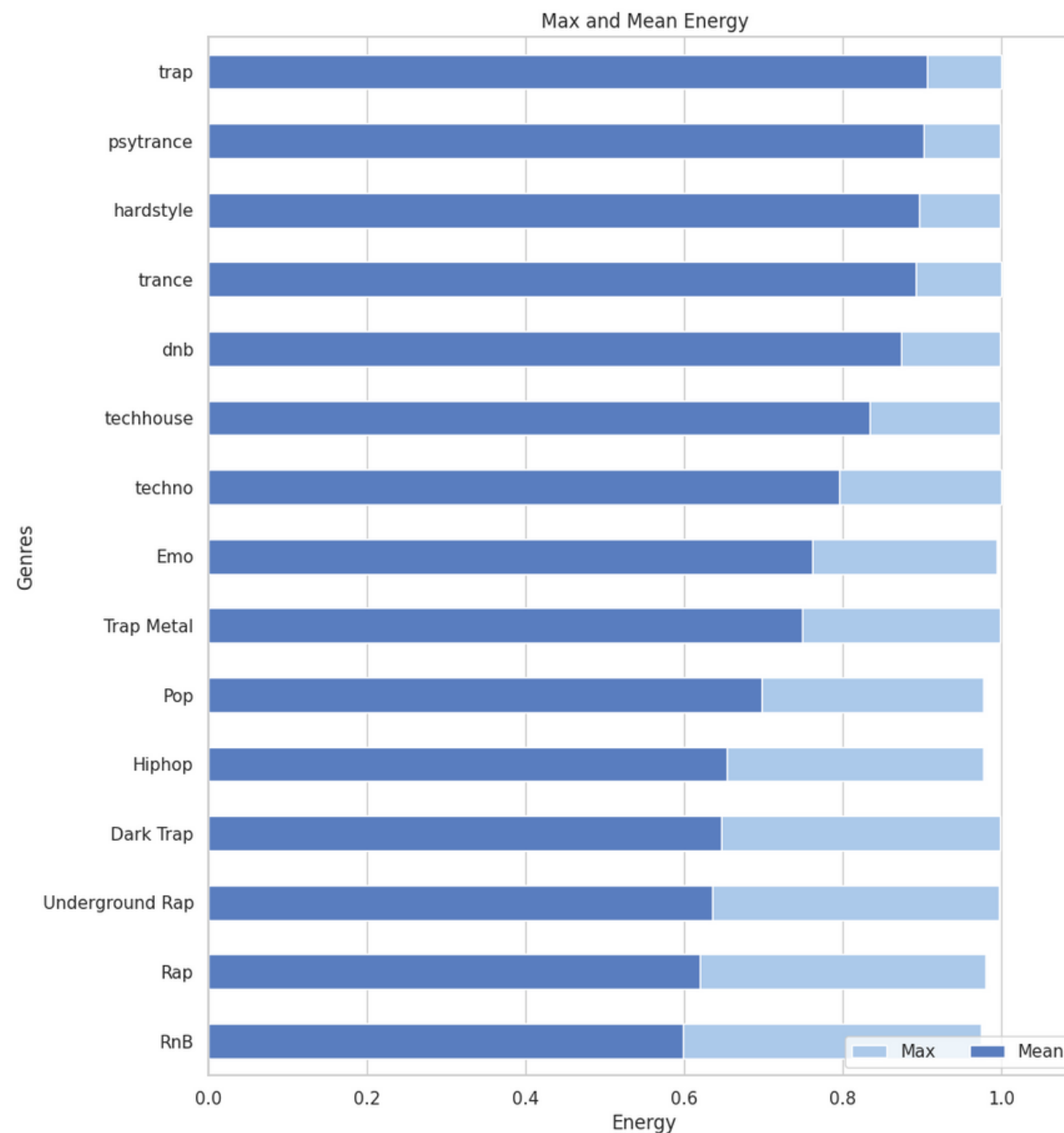
These songs are most likely to have great replay value for parties, events, nightlife and more.



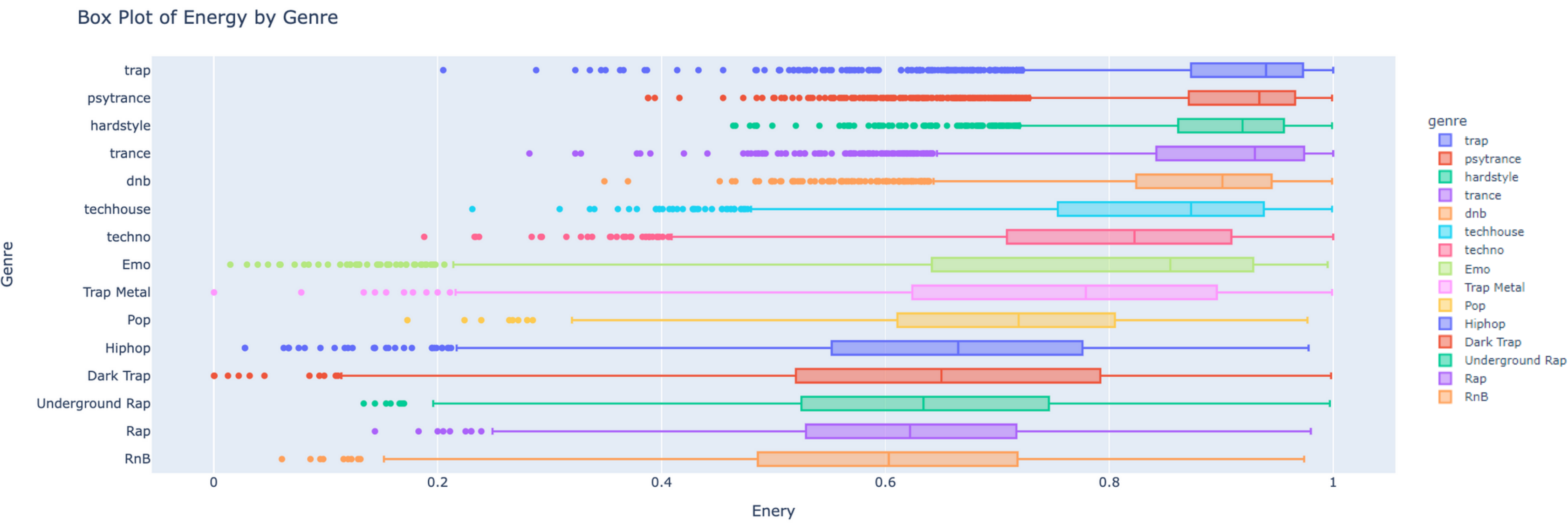
Energy Rating by Genre

Energy is another key measure for a song. It is a rating from 0 to 1 that measures the level of energy in a song.

Listeners may want a certain amount of energy from their music depending on their mood or what they are doing.



Energy Rating by Genre



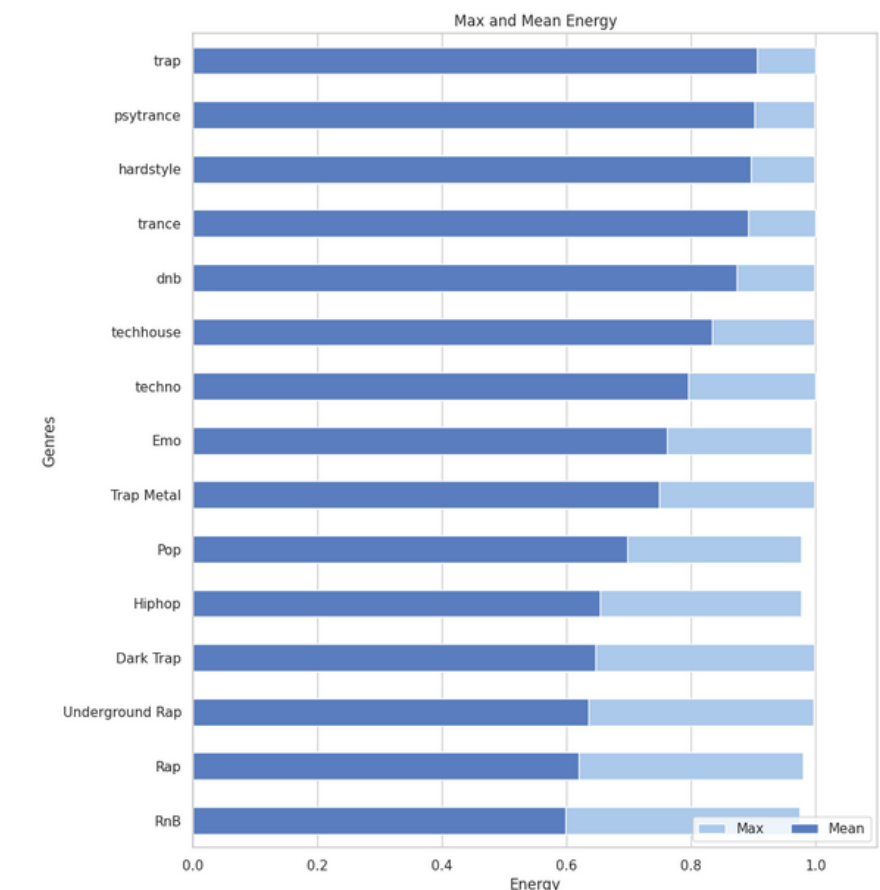
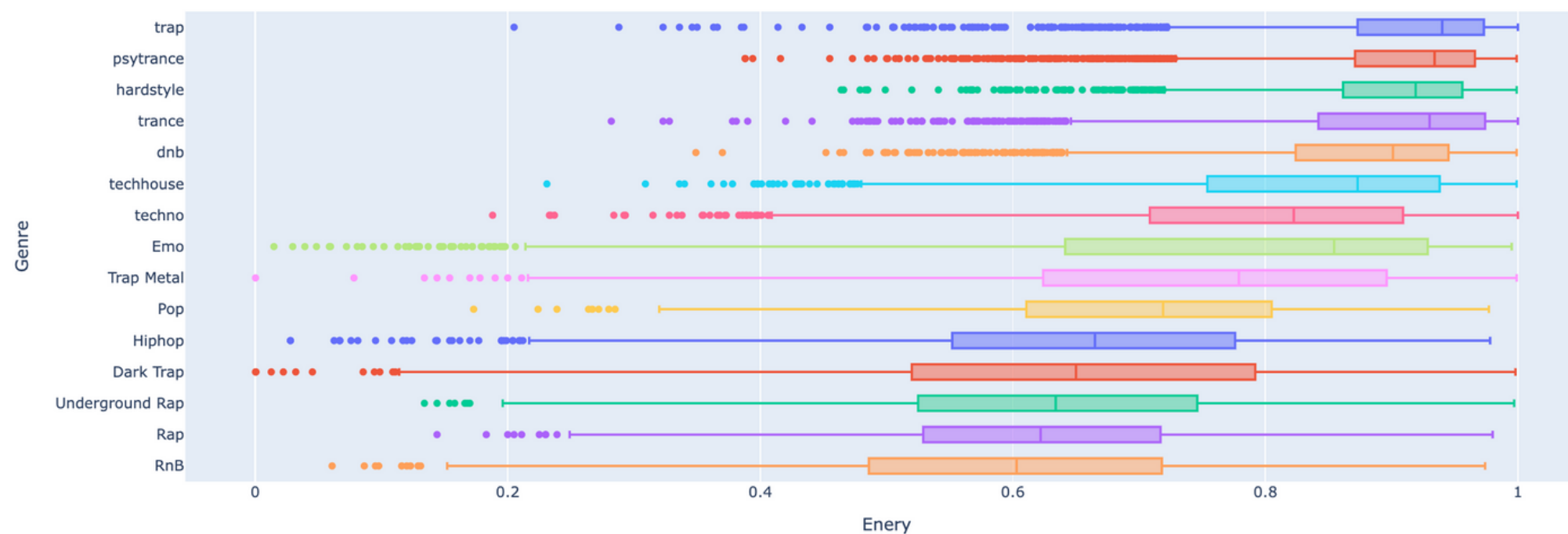
Q4. What genres typically have the most and least energy?

Similar to the danceability rating, songs from each genre come close to the max value so we will rank by mean values of each genre.

Trap, Psytrance, Hardstyle and Trance are near evenly matched at the top while Rap and RnB are at the bottom.

The electronic music genres at the top will certainly provide for a high energy experience for listeners while Rap and RnB will deliver a variety of energy levels to choose from based on the mood and scenario.

Box Plot of Energy by Genre



Conclusion

There isn't much consistency between the genres that dominates the collection of playlists vs the song library.

Emo playlists dominated the playlist set while being second to last composition of the song library.

Underground Rap is 1st in the number of songs in the library but last in the set of playlists.

Dark Trap seems to be pretty popular as it was 4th in the playlist set and 2nd in the library.

Techno and Rap based genres have the highest average danceability rating but are in the middle and end of the pack respectively when looking at energy rating. Each genre can provide for a number of listening experiences, it's just about what you prefer