

How We Access Music

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- Purpose of the Project



Background

Hypothesis: Is there a relationship between genre and streams?



Null Hypothesis: There is no relationship between genres and streams.

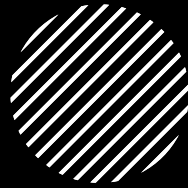
Alternative Hypothesis: There is a relationship between genres and streams.



Statistical Questions

1. Over the past 10 years, is there a remarkable distinction between genres and popularity (streams)?
2. What is the significance between the popular genre of a given country?

API(s) and Libraries Used

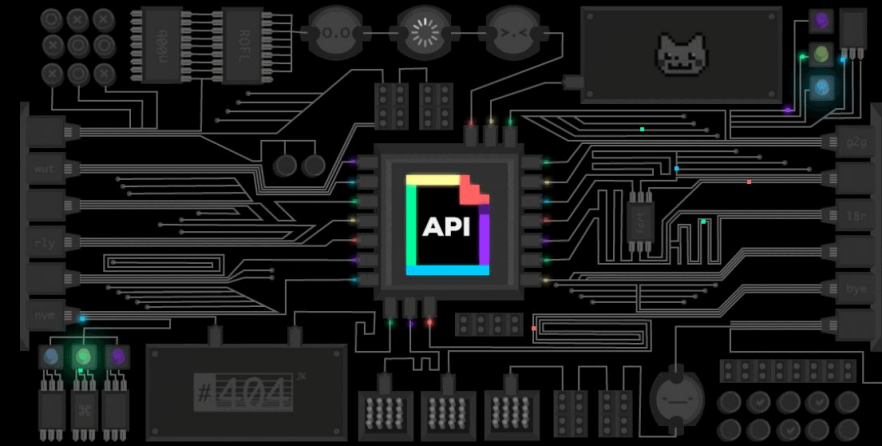


Spotify
API

Open
Weather
API

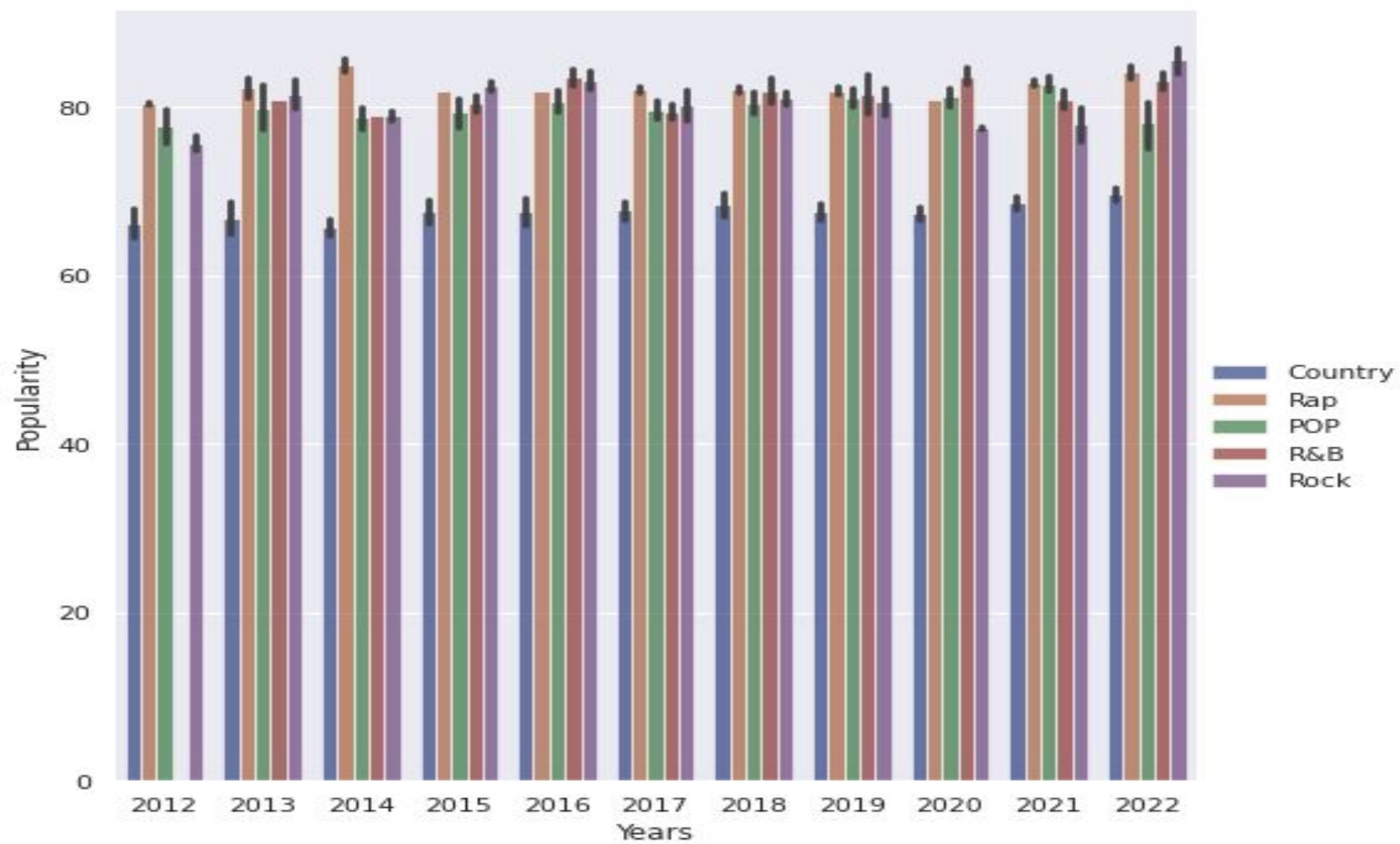
Last.fm
API

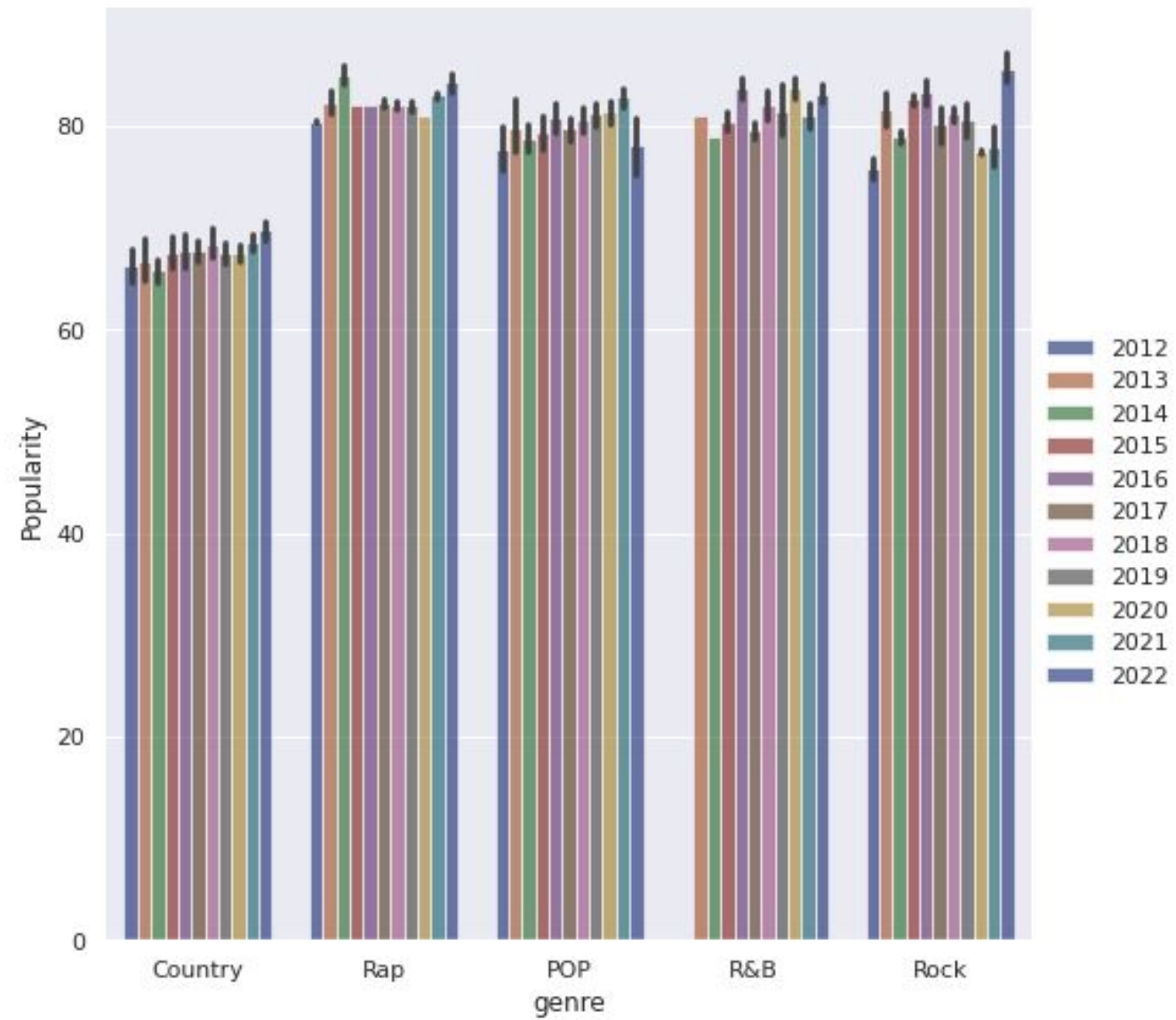
spotipy

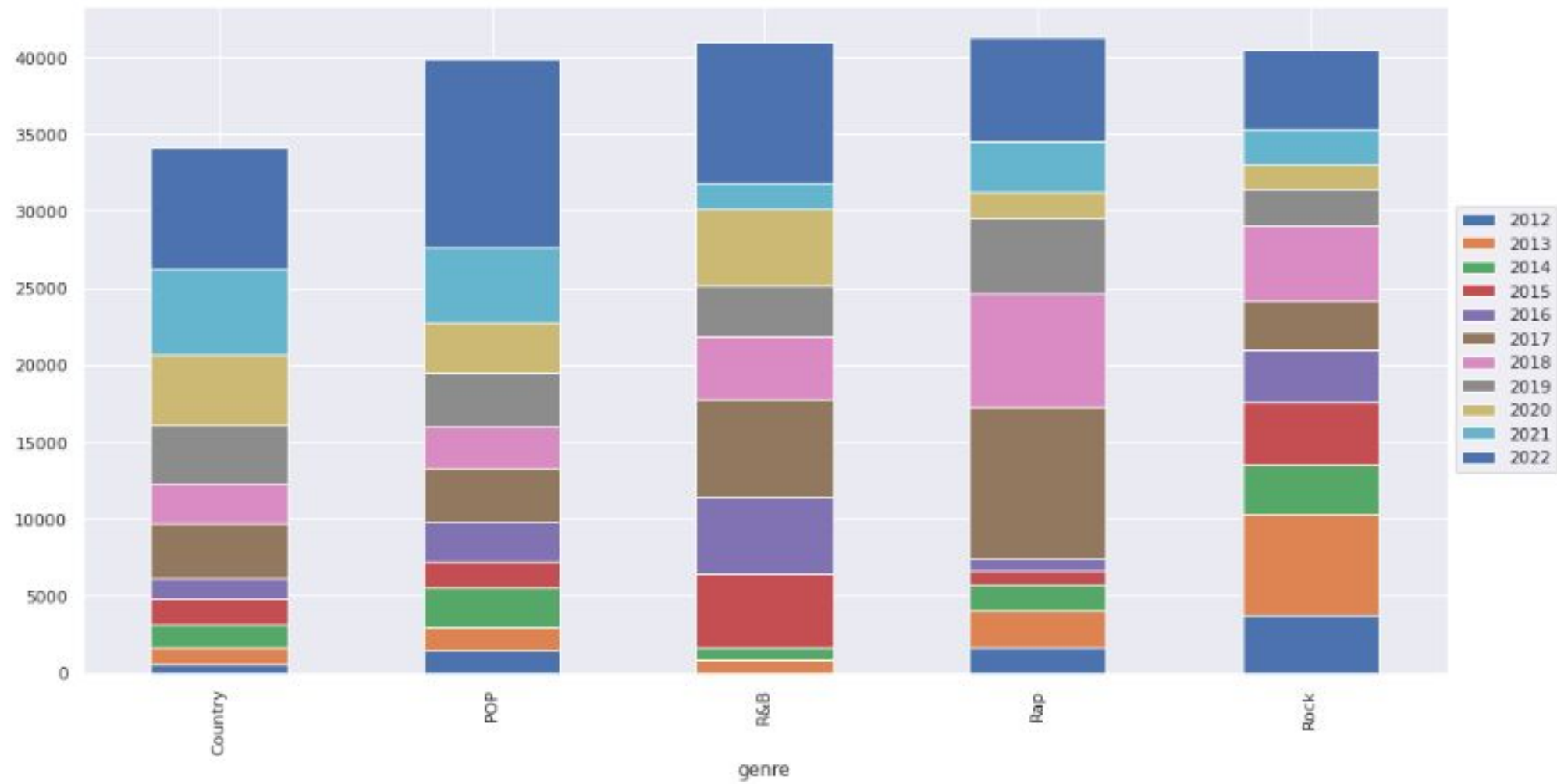


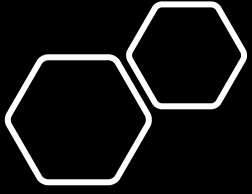
Analysis #1







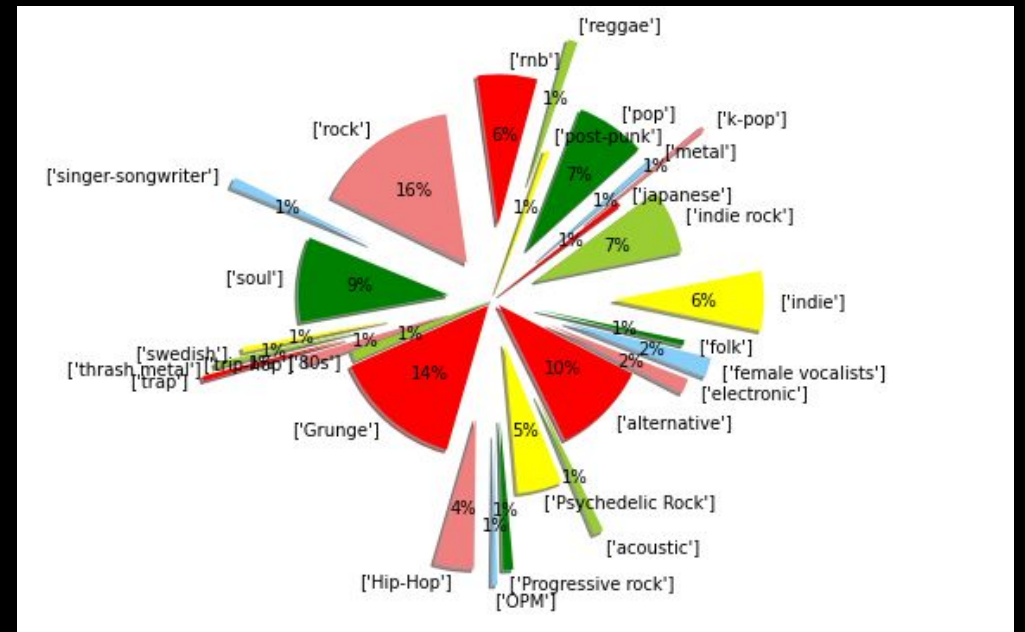




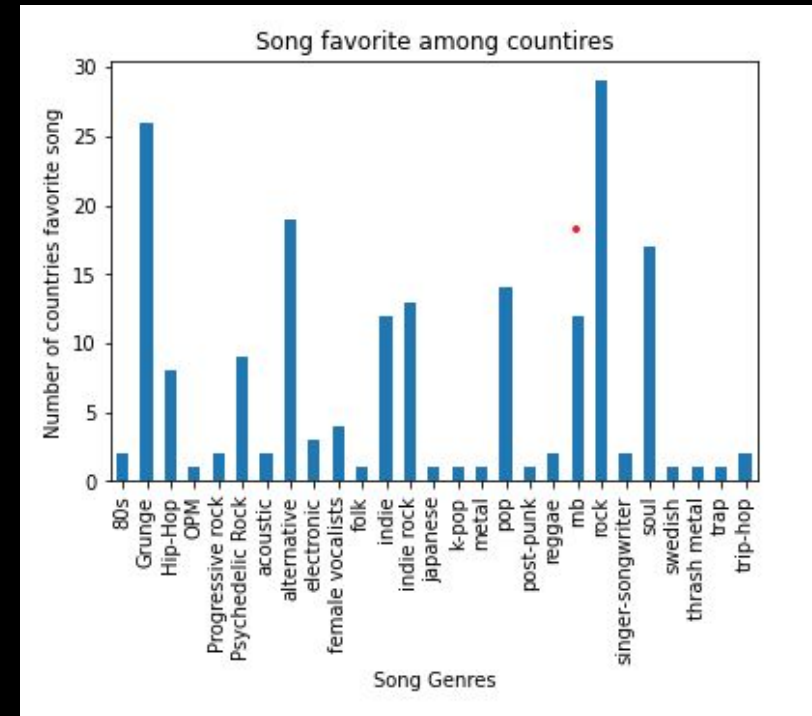
Analysis #2

What is the significance between the top genre of a given country?

- Most popular song genre from around the world
- Most popular song genre in the North Hemisphere
- Most popular song genre in the South Hemisphere

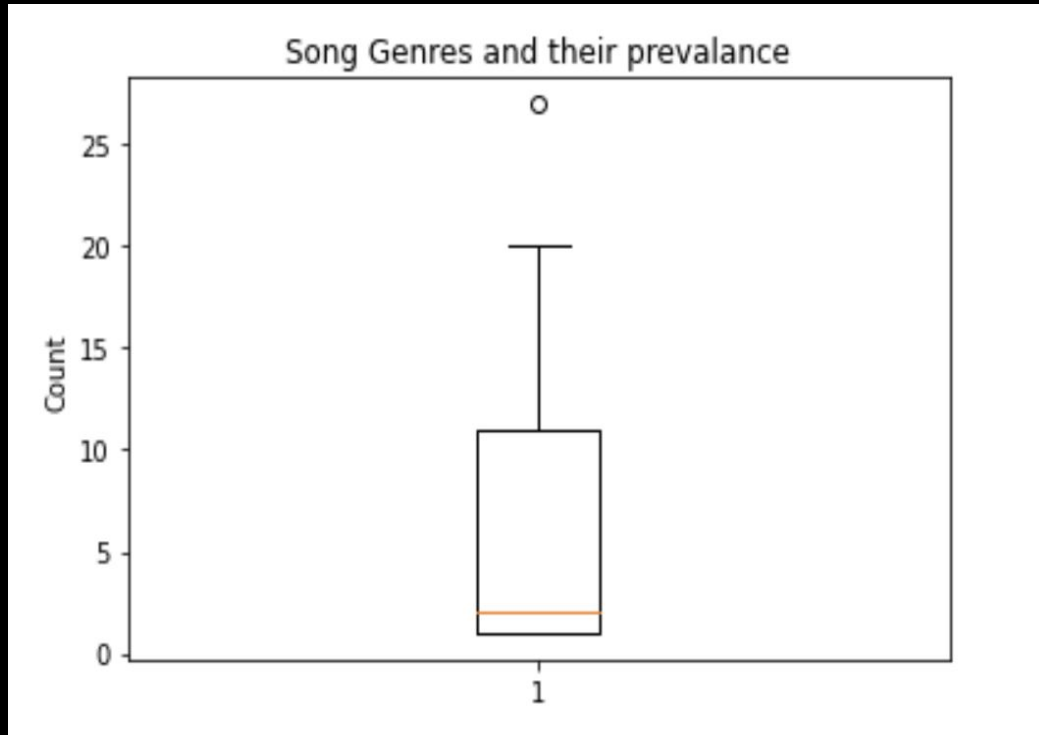


Most popular song genre from around the world



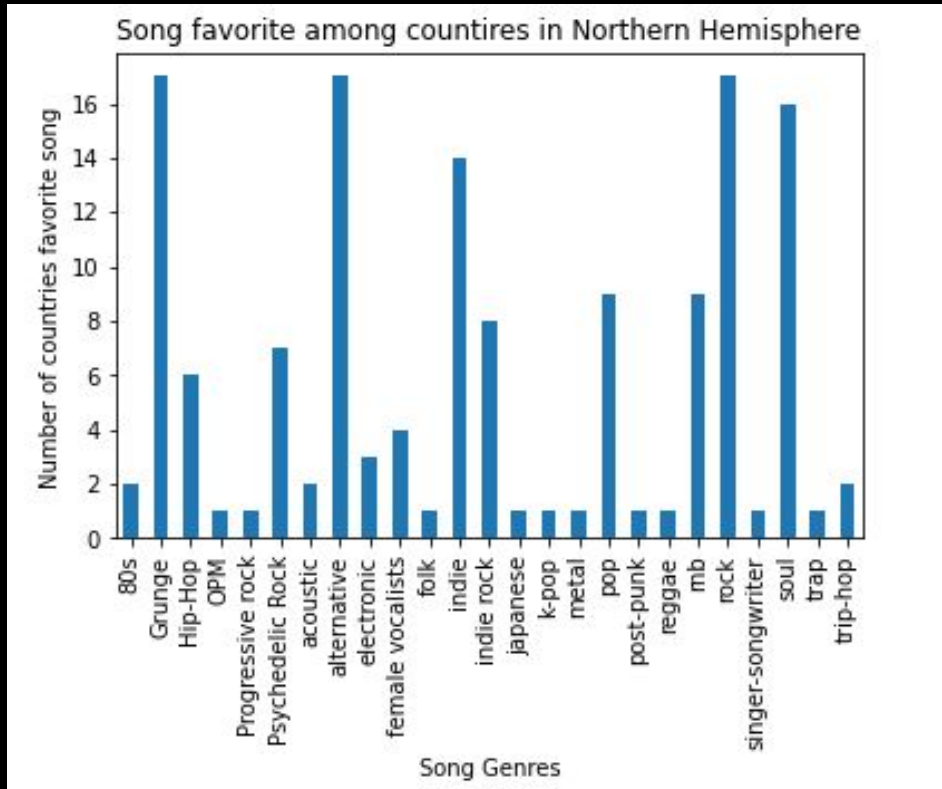
The mean of all the summed genre favorites is 6.64
The median of all the summed genre favorites is 2.0
The most of all the summed genre favorites is 1
The minimum of all the summed genre favorites is 1
The maximum of all the summed genre favorites is 25

Most popular song genre from around the world



The lower quartile of temperatures is: 1.0
The upper quartile of temperatures is: 11.0
The interquartile range of temperatures is: 10.0
The the median of temperatures is: 2.0
Values below -14.0 could be outliers.
Values above 26.0 could be outliers.

Most popular song genre in the North Hemisphere



The mean of all the summed genre favorites is 5.72

The median of all the summed genre favorites is 2.0

The most of all the summed genre favorites is 1

The minimum of all the summed genre favorites is 1

The maximum of all the summed genre favorites is 17

Most popular song genre in the South Hemisphere

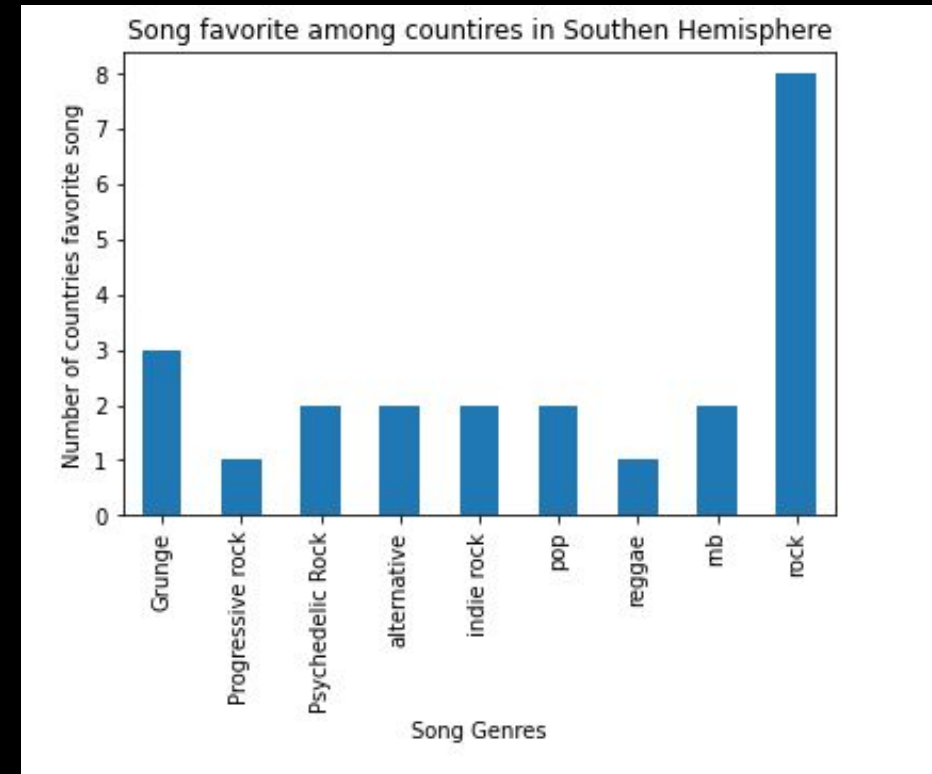
The mean of all the summed genre favorites is 2.555555555555554

The median of all the summed genre favorites is 2.0

The most of all the summed genre favorites is 2

The minimum of all the summed genre favorites is 1

The maximum of all the summed genre favorites is 8





Conclusion

- Recap
- Shortcomings
- Improve