IS MY MUSIC TASTE BAD?

AHNA CECIL

INTRODUCTION

INTRODUCTION

WHAT?

- Comparison between the top 100 trending songs now to my personal Spotify Wrapped playlists by year.
- Covers the years 2017-2021

HOW?

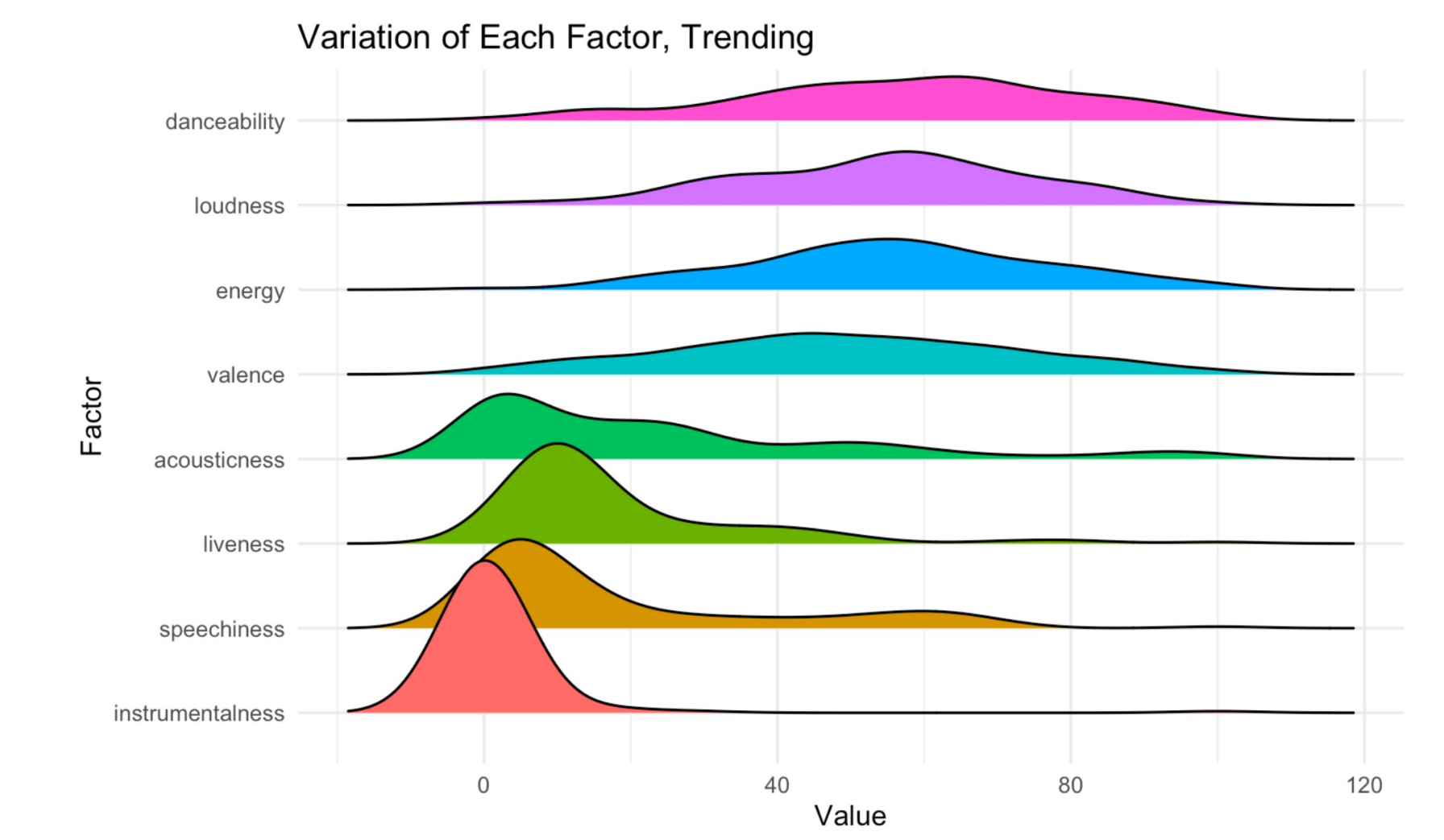
- Utilization of the Spotify API data on the following factors:
  - Danceability
  - Energy
  - Speechiness
  - Acousticness
  - Popularity Rating
  - Loudness
  - Liveness
  - Valence

SUMMARY OF DATA

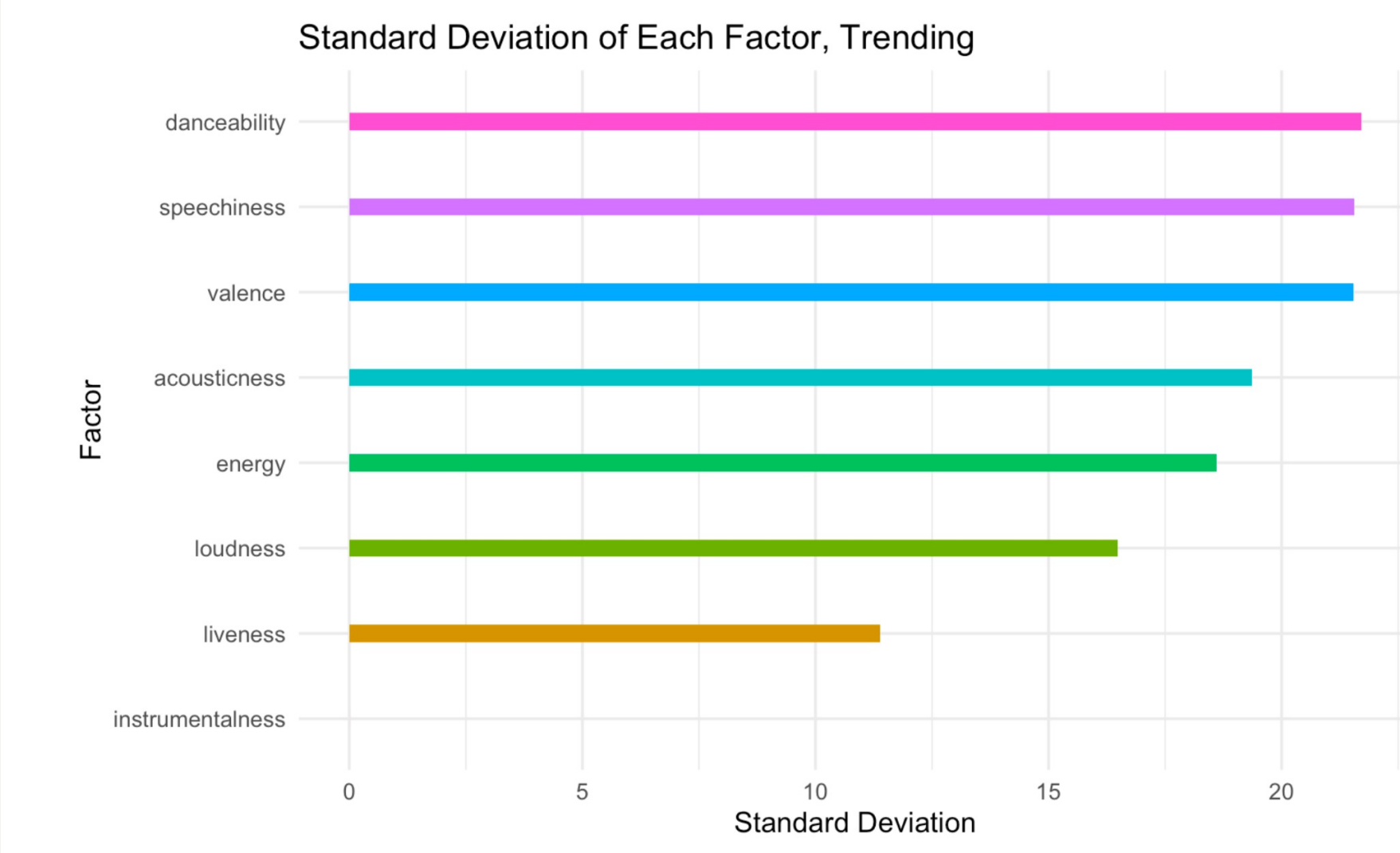
Classification of the “vibe” for each year

Year	Genre	Vibes	Top Artist
2017	Alt-Rock	Emo	Bring Me The Horizon
2018	Happy-Pop	Happy	AJR
2019	Emo-Rap	Questionable	Juice Wrld
2020	Electro-Pop	High-Energy	Quinn XCII
2021	Chill-Pop	Vibey	Dominic Fike

DISTRIBUTION



STANDARD DEVIATION



SCORING

SCORING EXPLANATION

- Utilized mean and standard deviation to create a scale
- Score decreases as the values get further from the mean
- A negative score is assigned to values that fall below the mean
- The total score is equal to the sum of the absolute value of each individual score

SCORING FUNCTION

```
scoring <- function(value, mean, sd_value) { #function accepts the mean value for the year's playlist, the mean v
alue for the trending playlist, and the standard deviation for that particular factor, and returns a score from 0
 to 5
  if(value >= (mean - sd_value/5) && value <= mean){
    return(-5)
  }
  else if(value >= (mean - sd_value/4) && value <= (mean - sd_value/5)){
    return(-4)
  }
  else if(value >= (mean - sd_value/3) && value <= (mean - sd_value/4)){
    return(-3)
  }
  else if(value >= (mean - sd_value/2) && value <= (mean - sd_value/3)){
    return(-2)
  }
  else if(value >= (mean - sd_value) && value <= (mean - sd_value/2)){
    return(-1)
  }
```

SCORING EXAMPLE

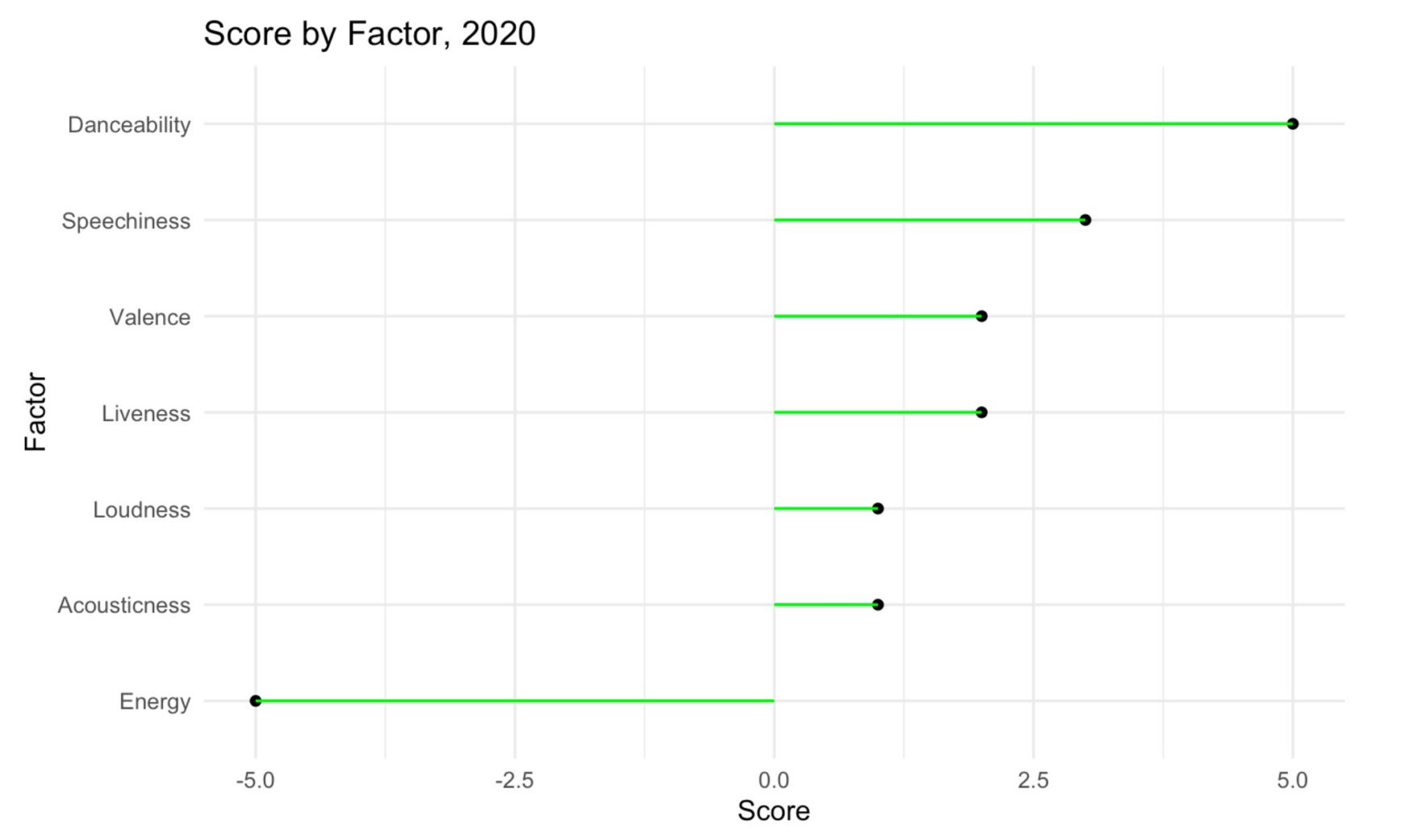
```
scores_trending <- c(
  a <- scoring(mean(new_trending[["danceability"]]), mean(new_trending[["danceability"]]), sd_trending[["danceabi
lity"]]),
  b <- scoring(mean(new_trending[["energy"]]), mean(new_trending[["energy"]]), sd_trending[["energy"]]),
  c <- scoring(mean(new_trending[["loudness"]]), mean(new_trending[["loudness"]]), sd_trending[["loudness"]]),
  d <- scoring(mean(new_trending[["speechiness"]]), mean(new_trending[["speechiness"]]), sd_trending[["speechines
s"]]),
  e <- scoring(mean(new_trending[["acousticness"]]), mean(new_trending[["acousticness"]]), sd_trending[["acoustic
ness"]]),
  f <- scoring(mean(new_trending[["liveness"]]), mean(new_trending[["liveness"]]), sd_trending[["liveness"]]),
  g <- scoring(mean(new_trending[["valence"]]), mean(new_trending[["valence"]]), sd_trending[["valence"]]))


total(a,b,c,d,e,f,g)
```

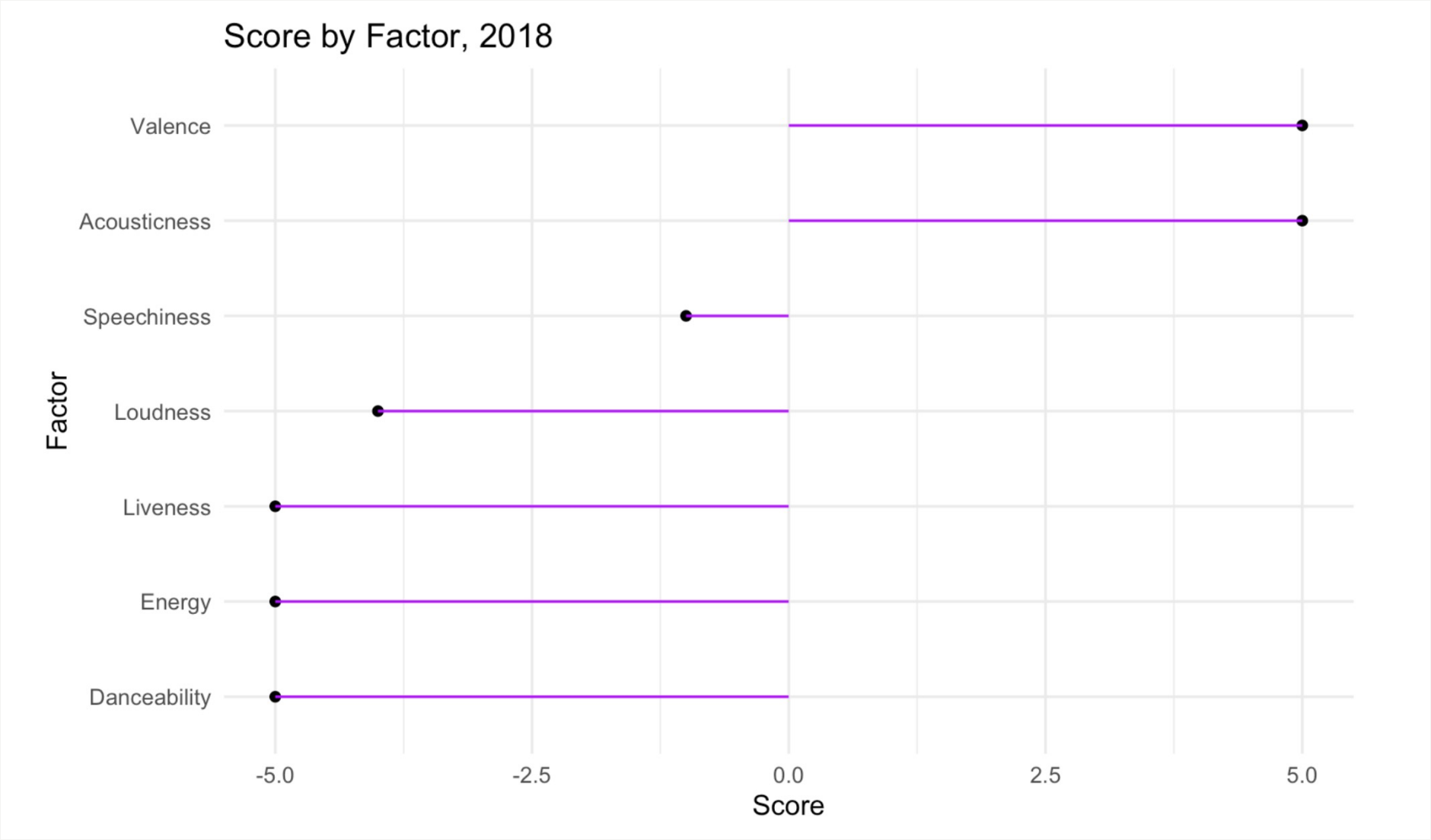
```
[1] 35
```

RESULTS

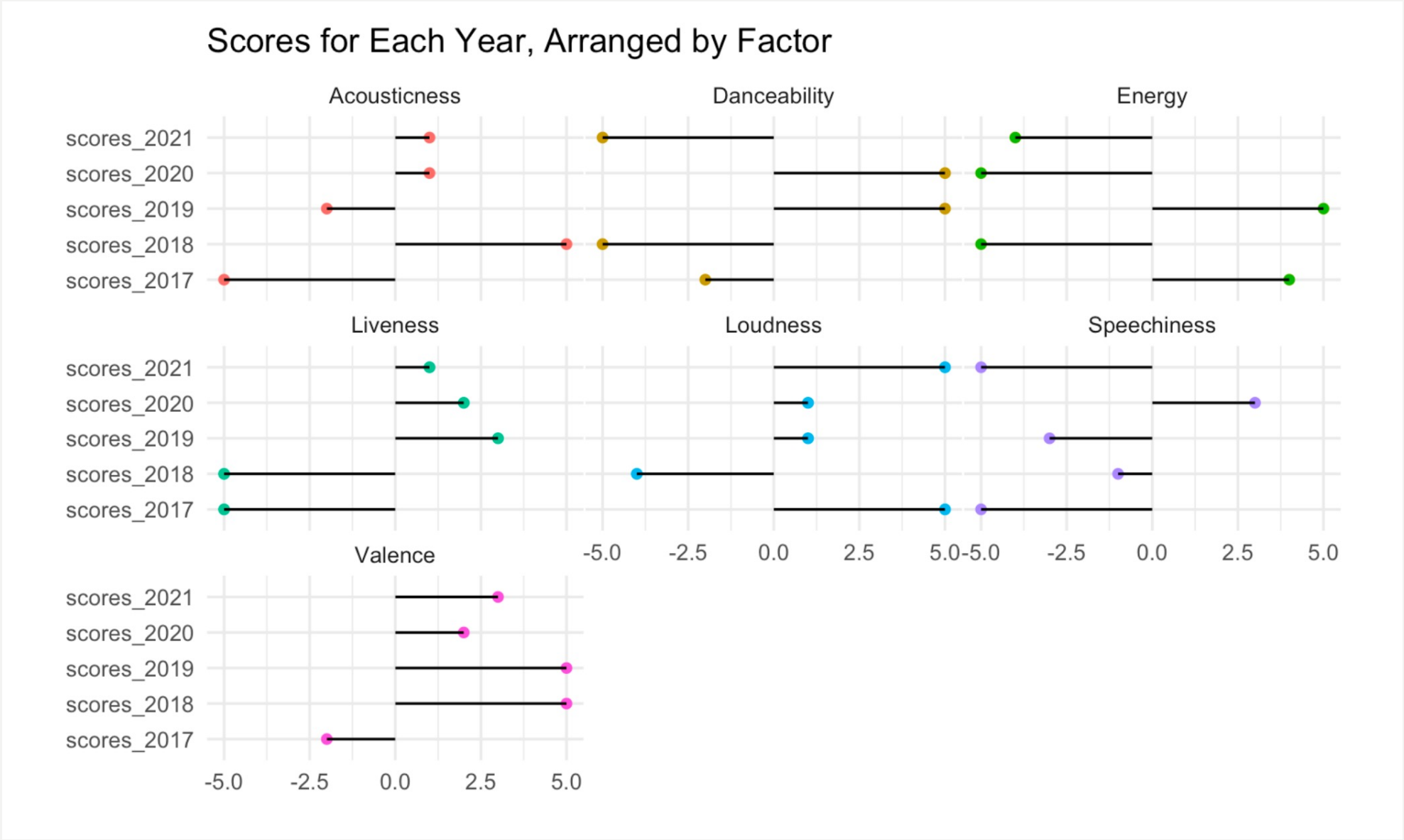
LAST PLACE THE YEAR OF CHAOTIC ENERGY



FIRST PLACE THE YEAR OF HAPPY

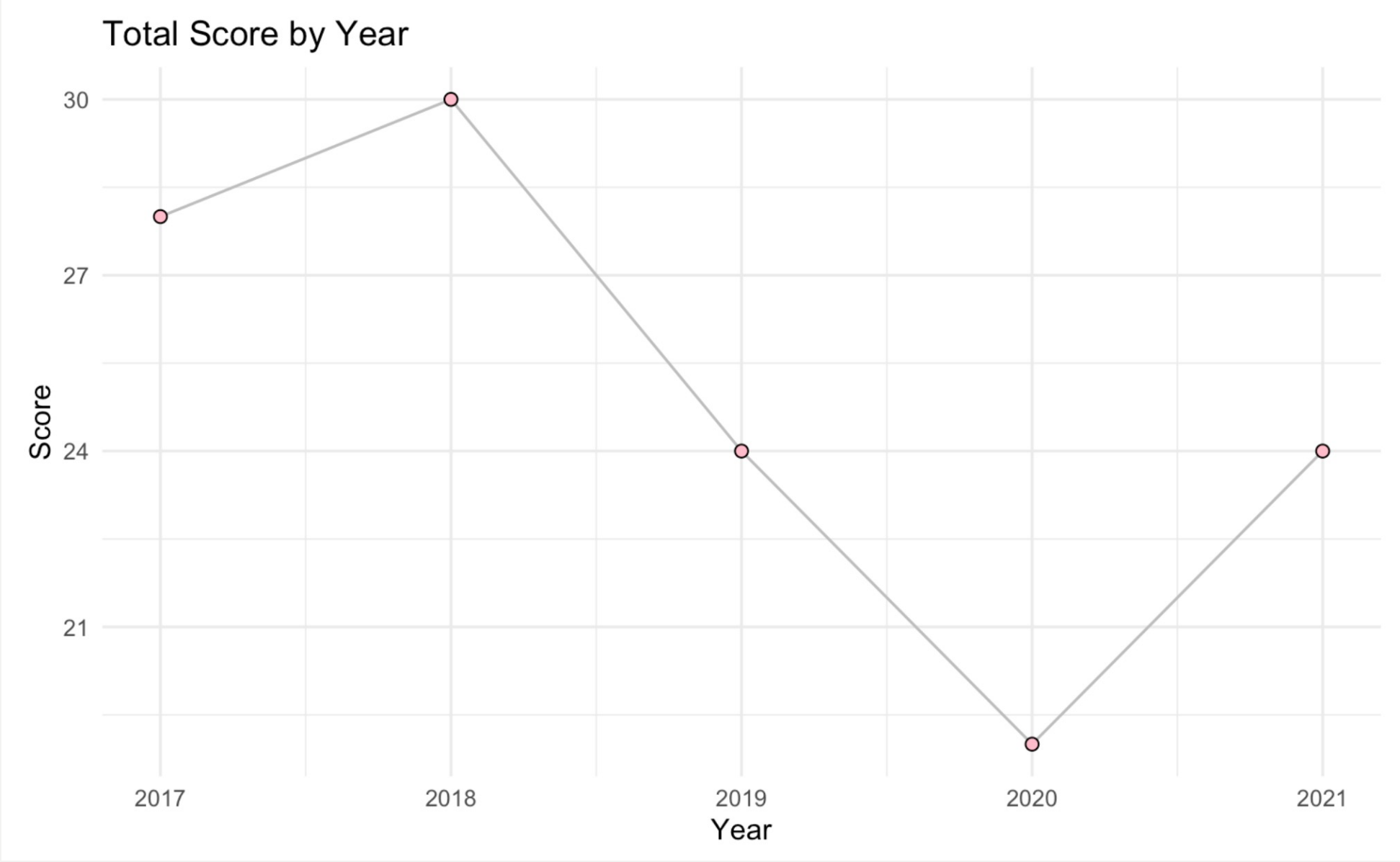


OVERVIEW OF SCORES



SO, IS MY MUSIC TASTE BAD?

SUMMARY OF SCORES



QUESTIONS?