

Rolling Stone's Top 500 Albums

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Dataset Overview

Rolling Stone's
Top 500 Albums
in 2003, 2012, 2020

Question 1

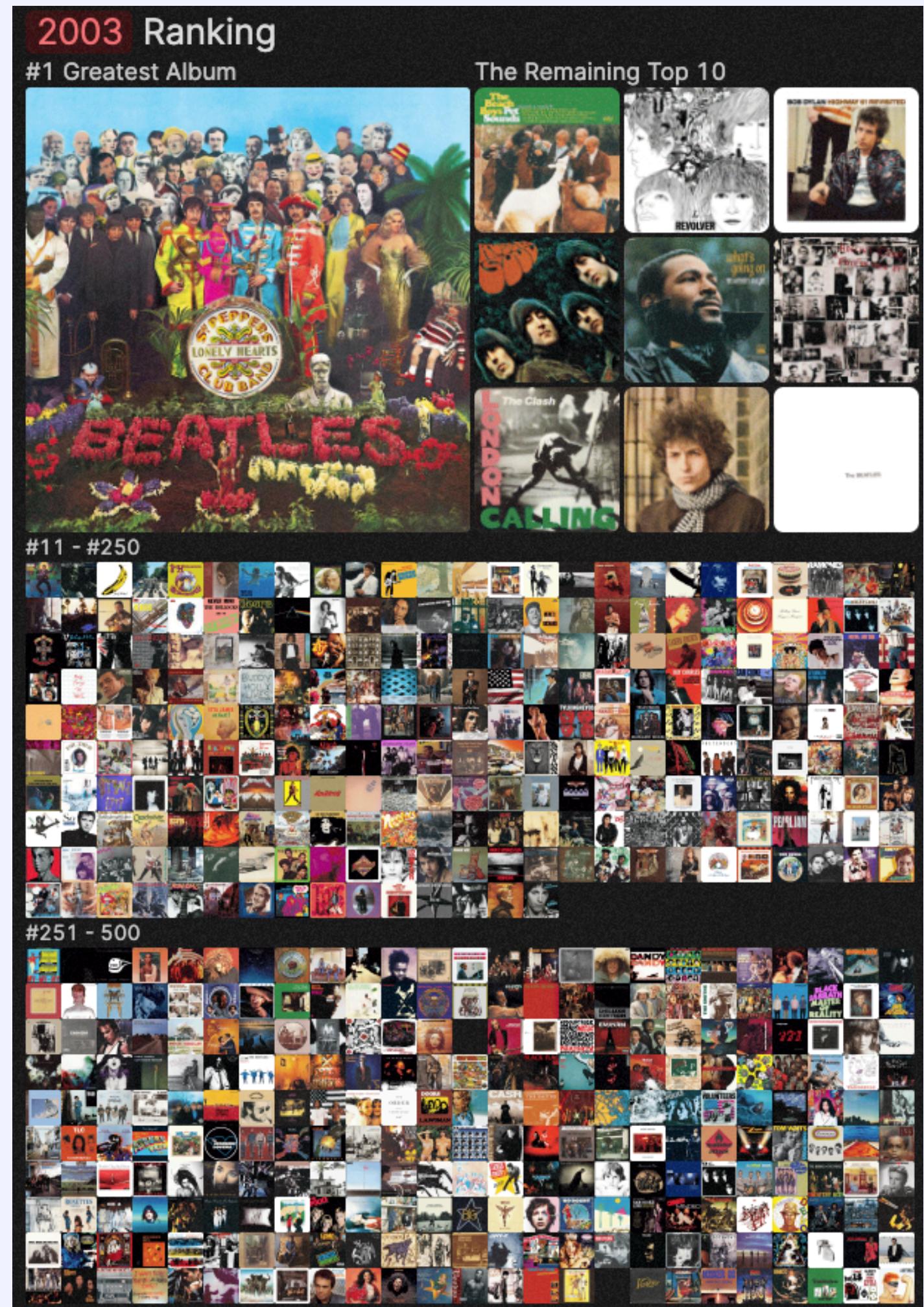
How do an **album's genre**
and **release year** influence its
ranking changes from 2003
to 2020?

Question 2

How do **artist gender** and
group size affect **album**
popularity on **Spotify**?

Rolling Stone's Top 500 Albums

- **Source:** [TidyTuesday Rolling Stone Album Rankings Dataset](#)
- **Original Publisher:** Rolling Stone Magazine
- **Data Collection:** Information compiled from [Rolling Stone's published rankings](#), [Billboard](#) statistics, and [Spotify](#) metadata
- **Size & Statistics:**
 - Year recorded: 2003, 2012, 2020
 - 15+ variables
 - 500 albums for each year recorded



Dataset Details

Numerical Variables:

- rank_2003, rank_2012, rank_2020 (album rankings over the years)
- differential (ranking change between years)
- release_year
- spotify_popularity_score
- weeks_on_billboard
- peak_billboard_position

| | A | B | C | E | F | G |
|---|----------------|----------------|----------------------------|-----------|-----------|-----------|
| 1 | Sort Name | Clean Name | Album | 2003 Rank | 2012 Rank | 2020 Rank |
| 2 | Sinatra, Frank | Frank Sinatra | In the Wee Small Hours | 100 | 101 | 282 |
| 3 | Diddley, Bo | Bo Diddley | Bo Diddley / Go Bo Diddley | 214 | 216 | 455 |
| 4 | Presley, Elvis | Elvis Presley | Elvis Presley | 55 | 56 | 332 |
| 5 | Sinatra, Frank | Frank Sinatra | Songs for Swingin' Lovers! | 306 | 308 | |
| 6 | Little Richard | Little Richard | Here's Little Richard | 50 | 50 | 227 |
| 7 | Beyonce | Beyonce | Lemonade | | | 32 |

Categorical Variables:

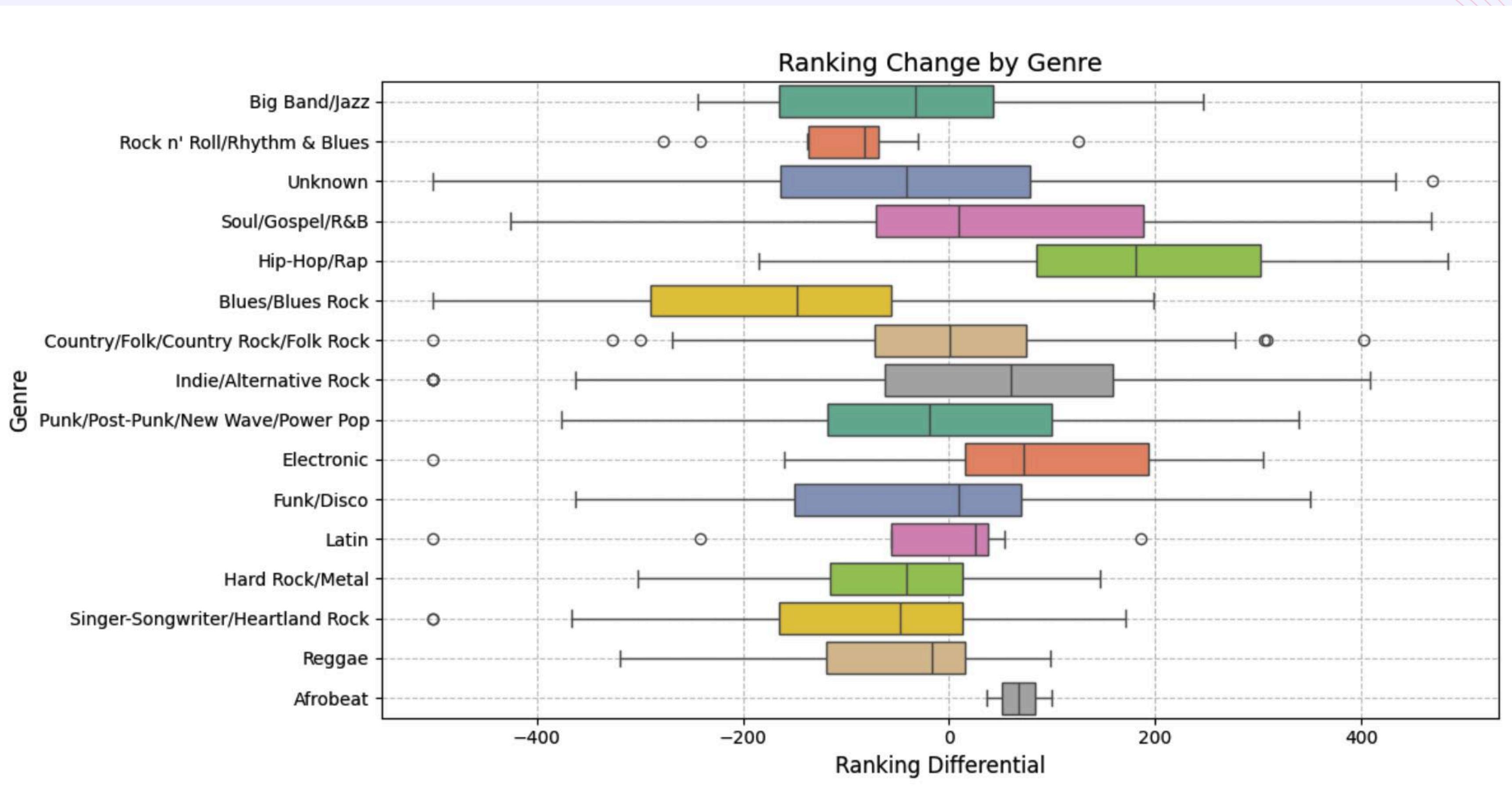
- album
- artist
- genre
- artist_gender
- type (album classification, e.g., studio, live, compilation)

Preprocessing

- Changed column names, replacing white space with underscores, and making all letters lowercase.
- Removed Chartmetric Link and Album ID Quoted columns.
- Removed "N/A" and "Not on Spotify" and "-" characters, replacing with empty cells.

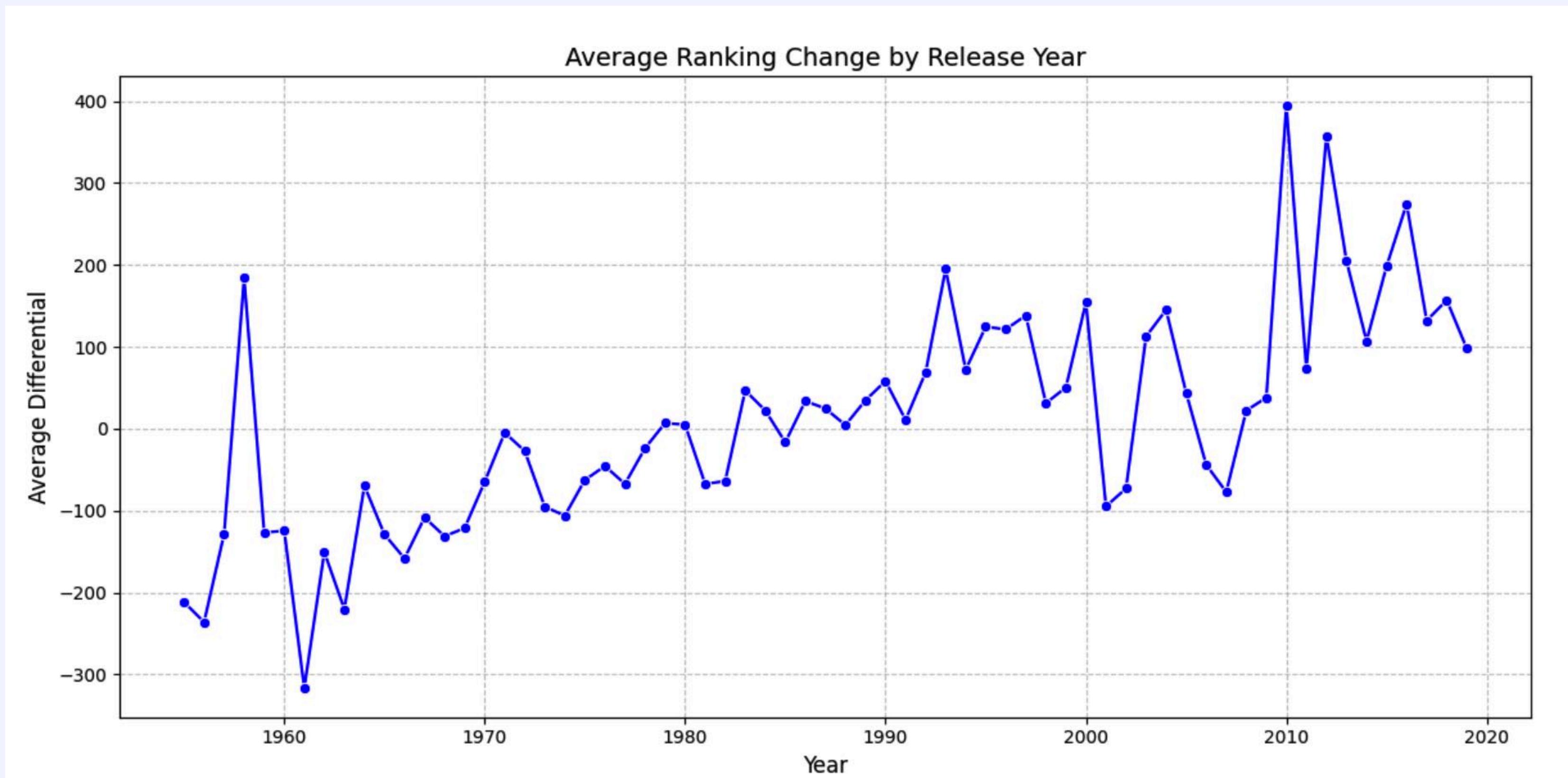


**Question 1: How do an album's genre
and release year influence its ranking
changes from 2003 to 2020?**

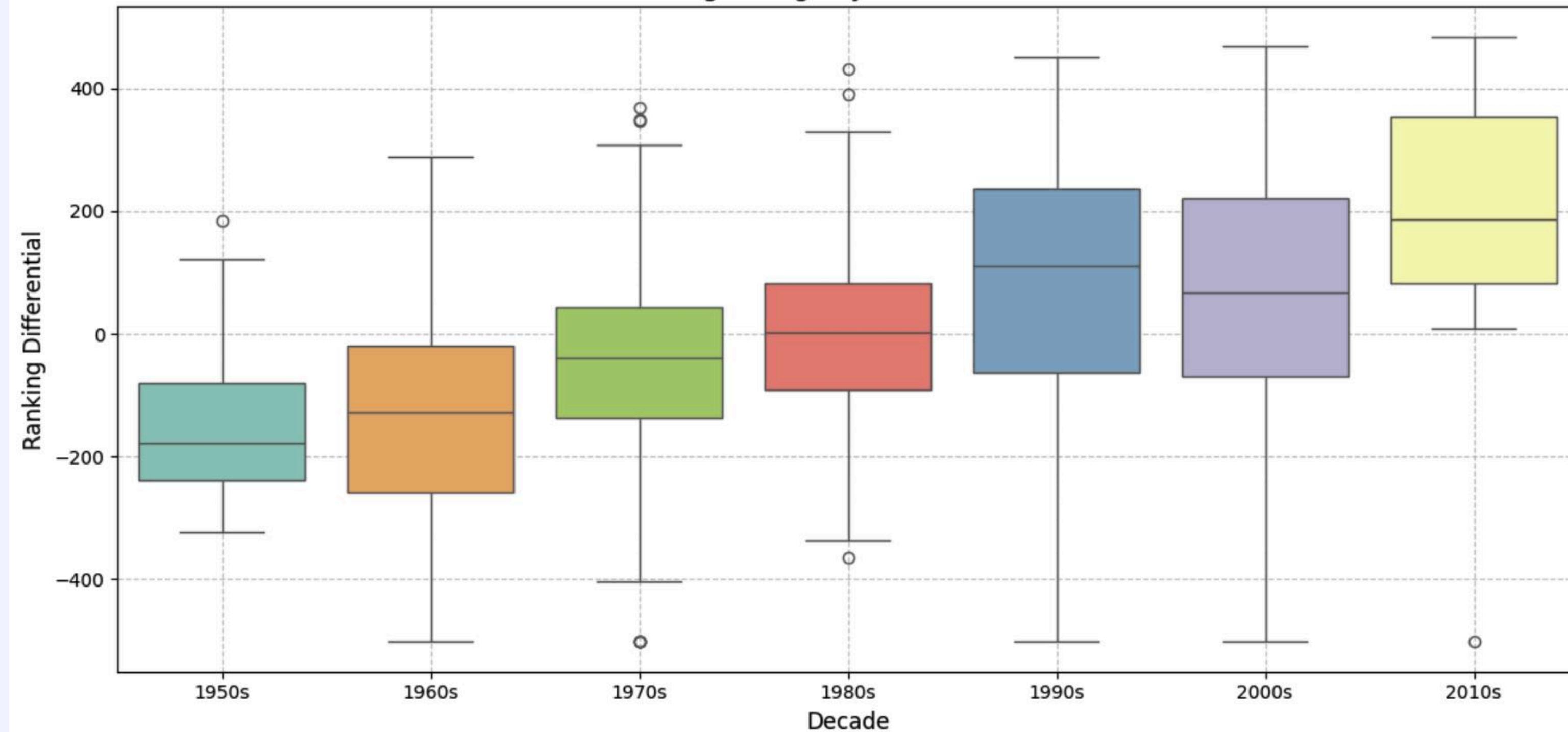


Certain genres such as Reggae and Rock 'n' Roll/Rhythm & Blues generally declined while genres like Hip-Hop/Rap and Electronic rose significantly.

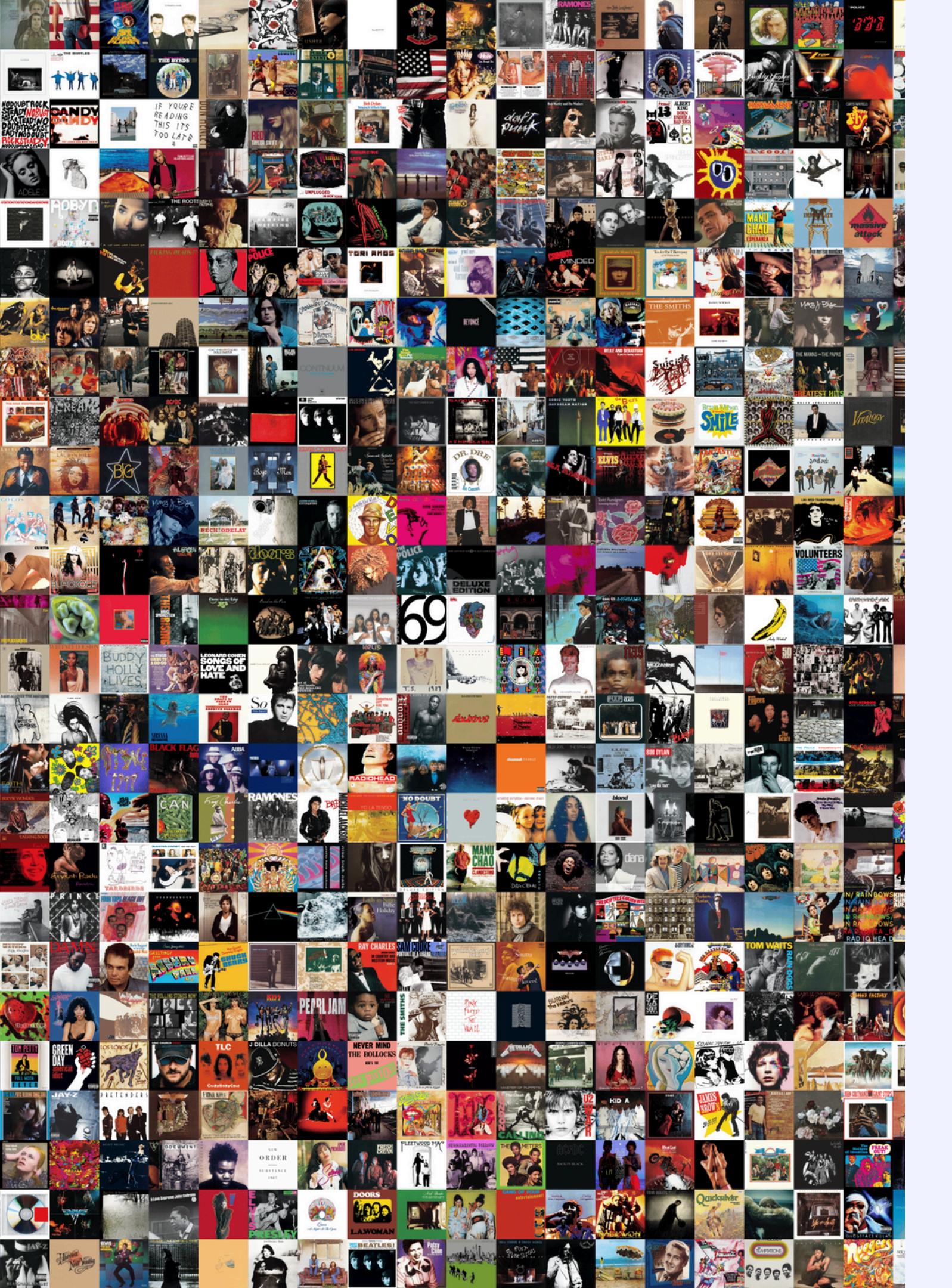
Ranking of releases from different years has changed over time, with greater ranking stability for older album and increased variability for more recent decades.



Ranking Change by Release Decade

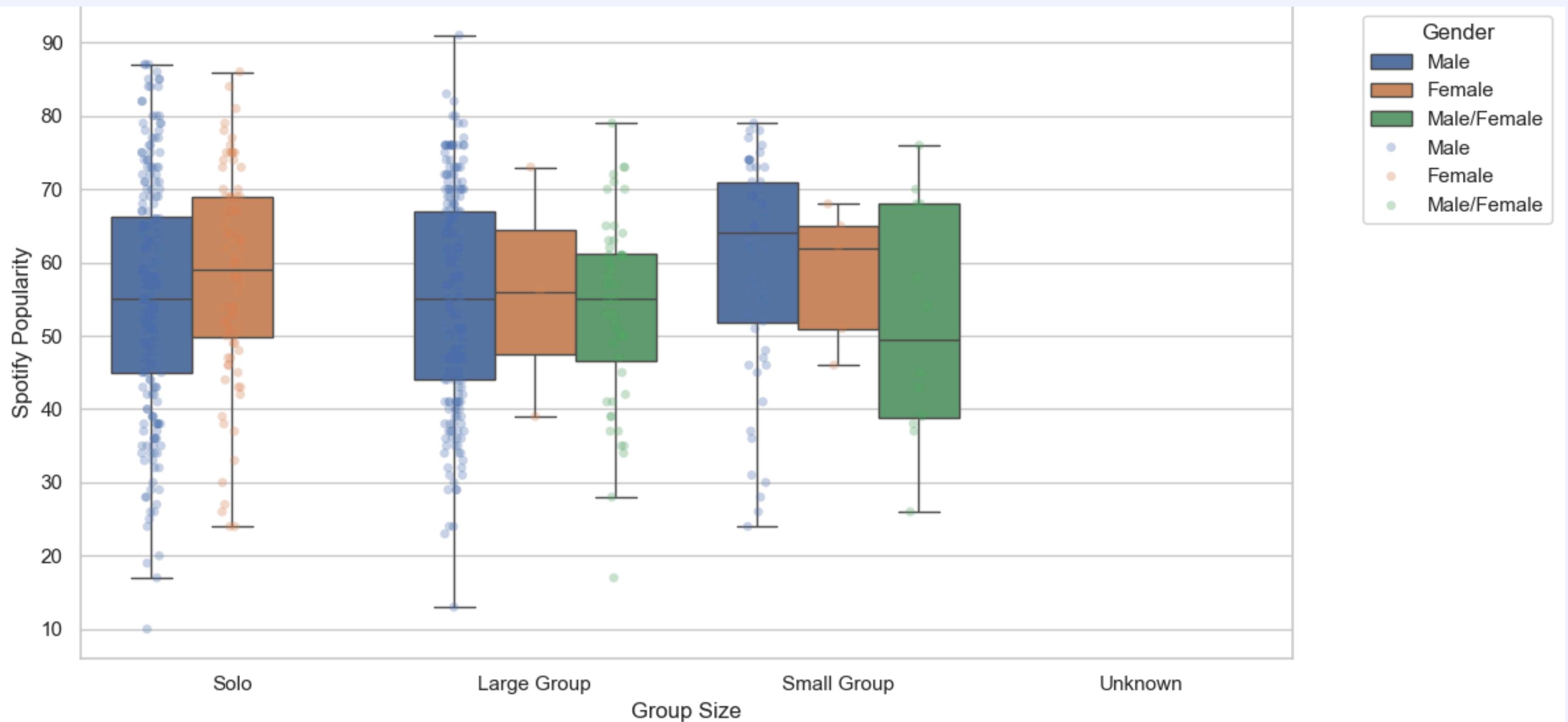


Rankings differential by releases decades evolved over time, with older decades experiencing a more consistent decline while recent decades show positive changes.



Question 2: How do artist gender and group size affect album popularity on Spotify?

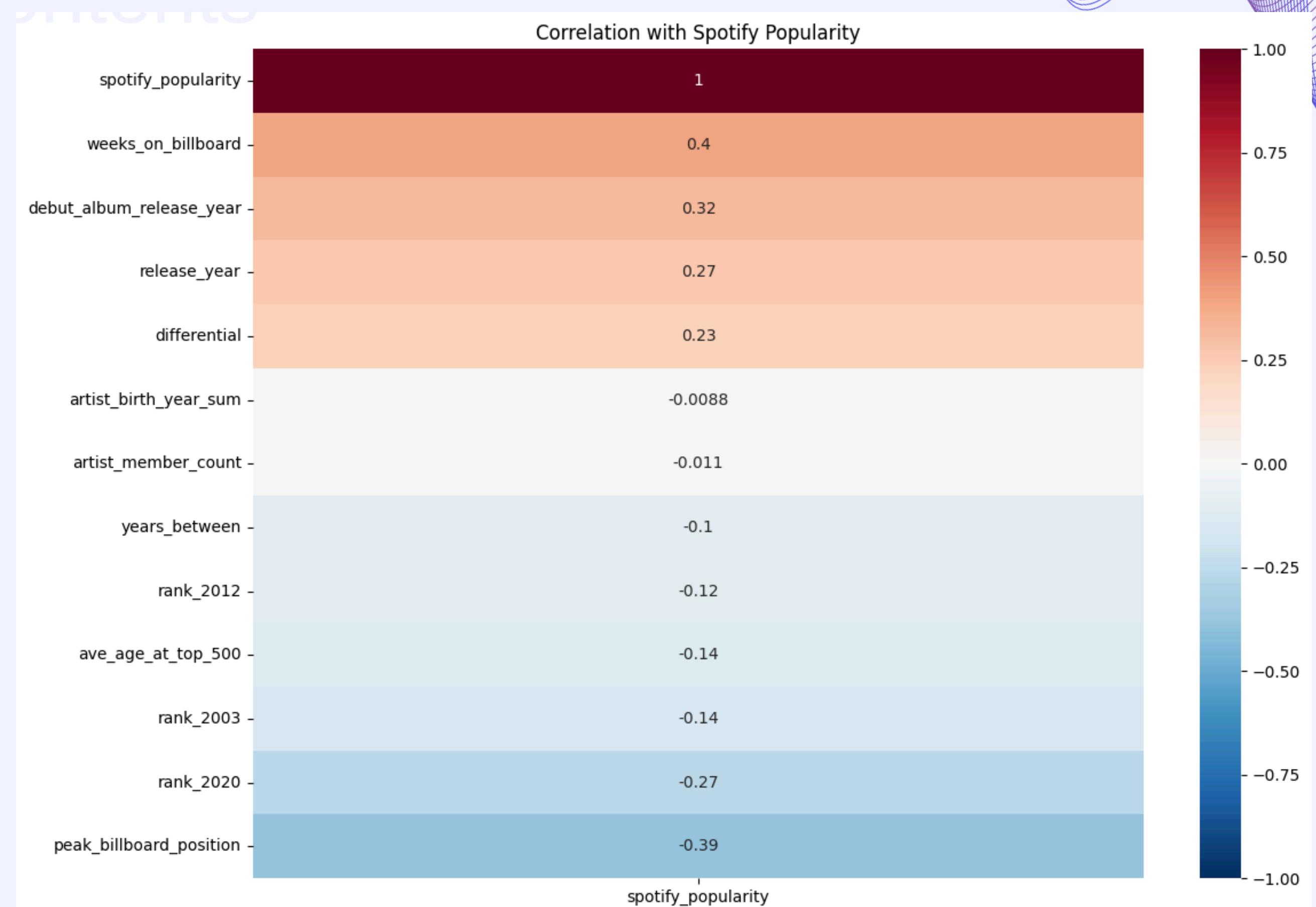
Spotify Popularity by Group Size and Gender



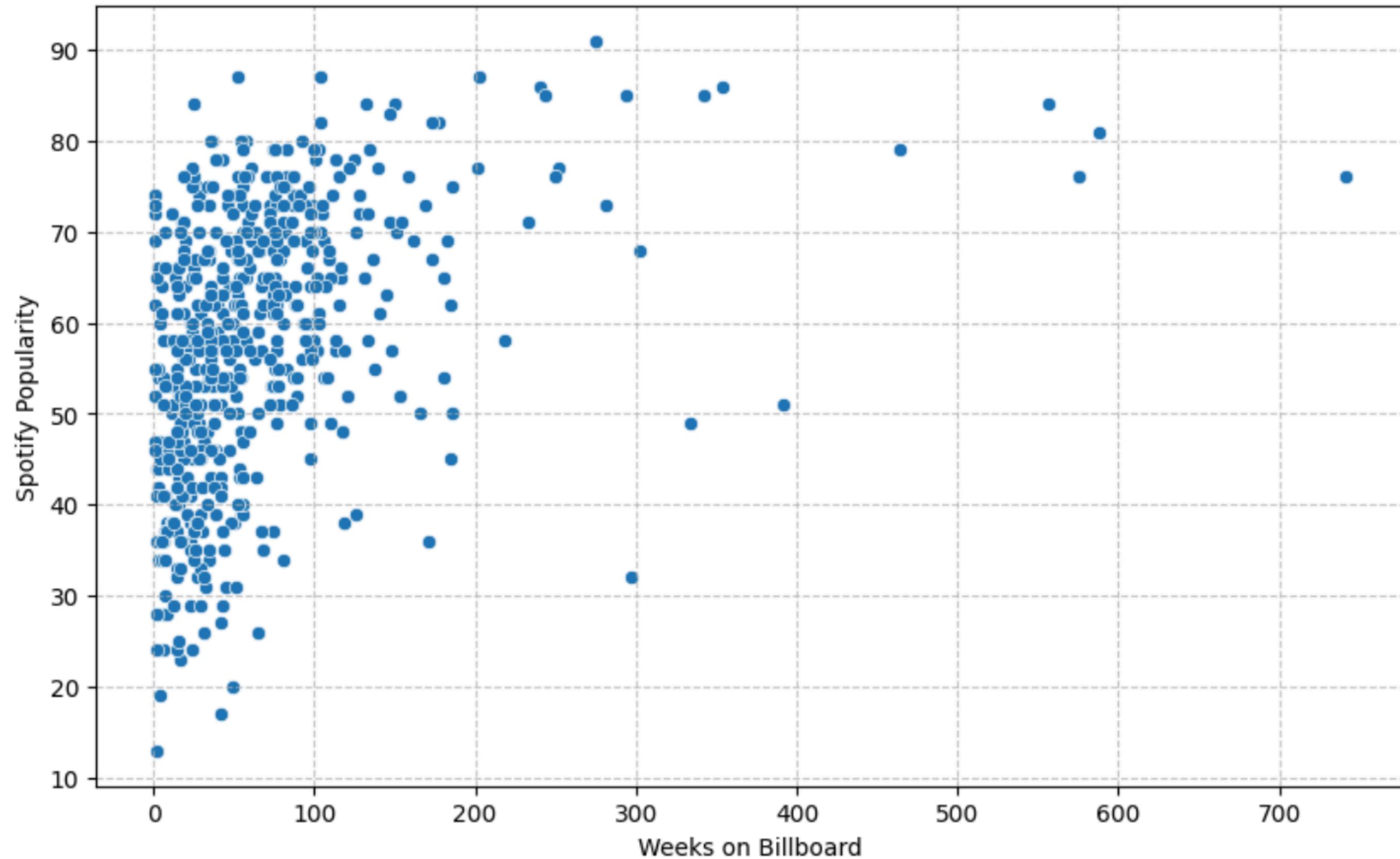
Further Analysis

Artist gender and group size DO NOT affect album popularity on Spotify

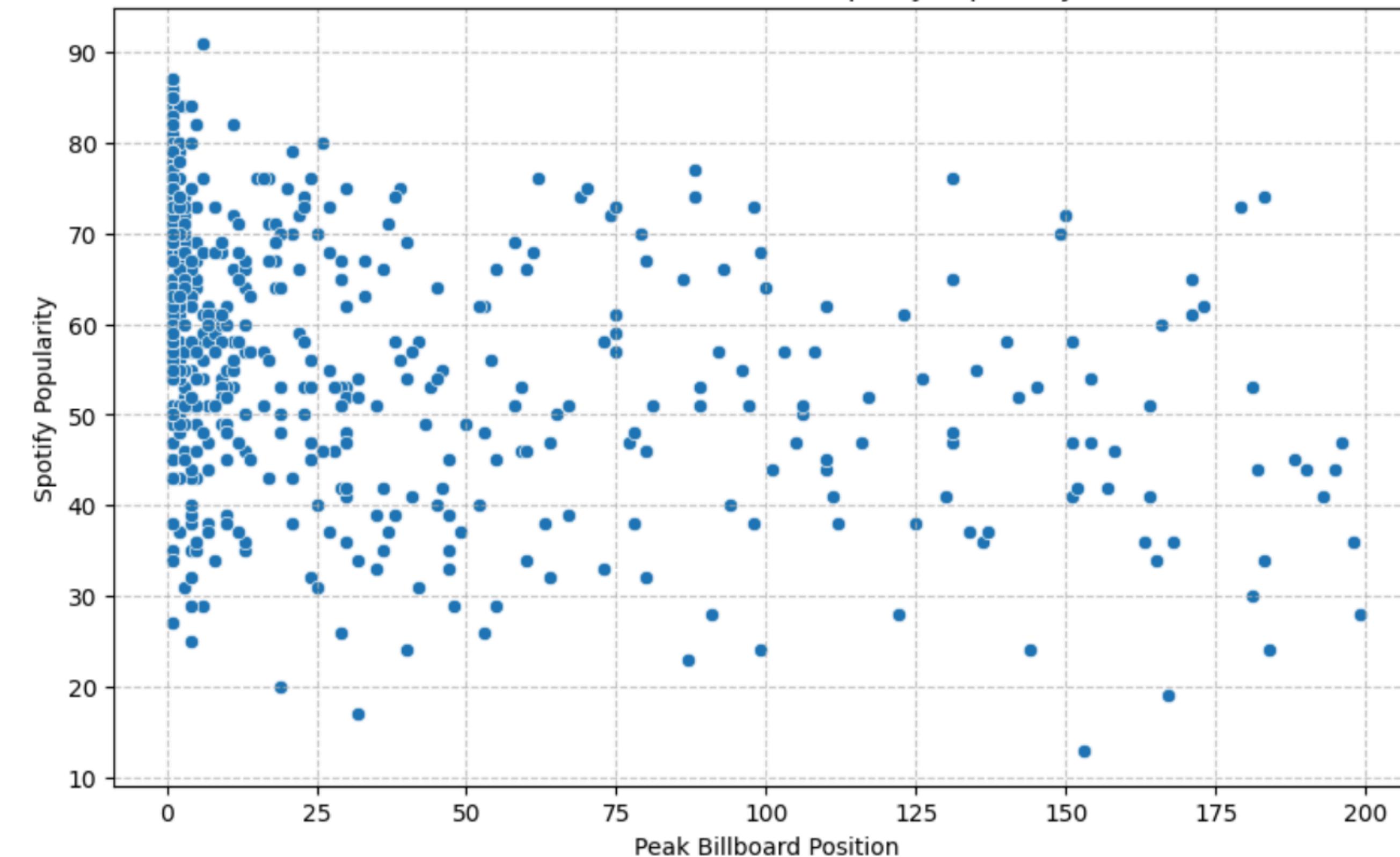
=> So what features do?



Weeks on Billboard vs. Spotify Popularity



Peak Billboard Position vs. Spotify Popularity



Thanks!

Do you have any questions?



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