



SPOTIFY





Question:

**What variables
play a role in
the popularity
of a top track in
Spotify?**

Database + Workflow

The database was collected by college students from Spotify's API in which they calculate with weight the popularity of the songs from 2017 to 2020 with important variables measured



DATA + CLEAN

1



EDA

2



GRAPHICS + FINDINGS

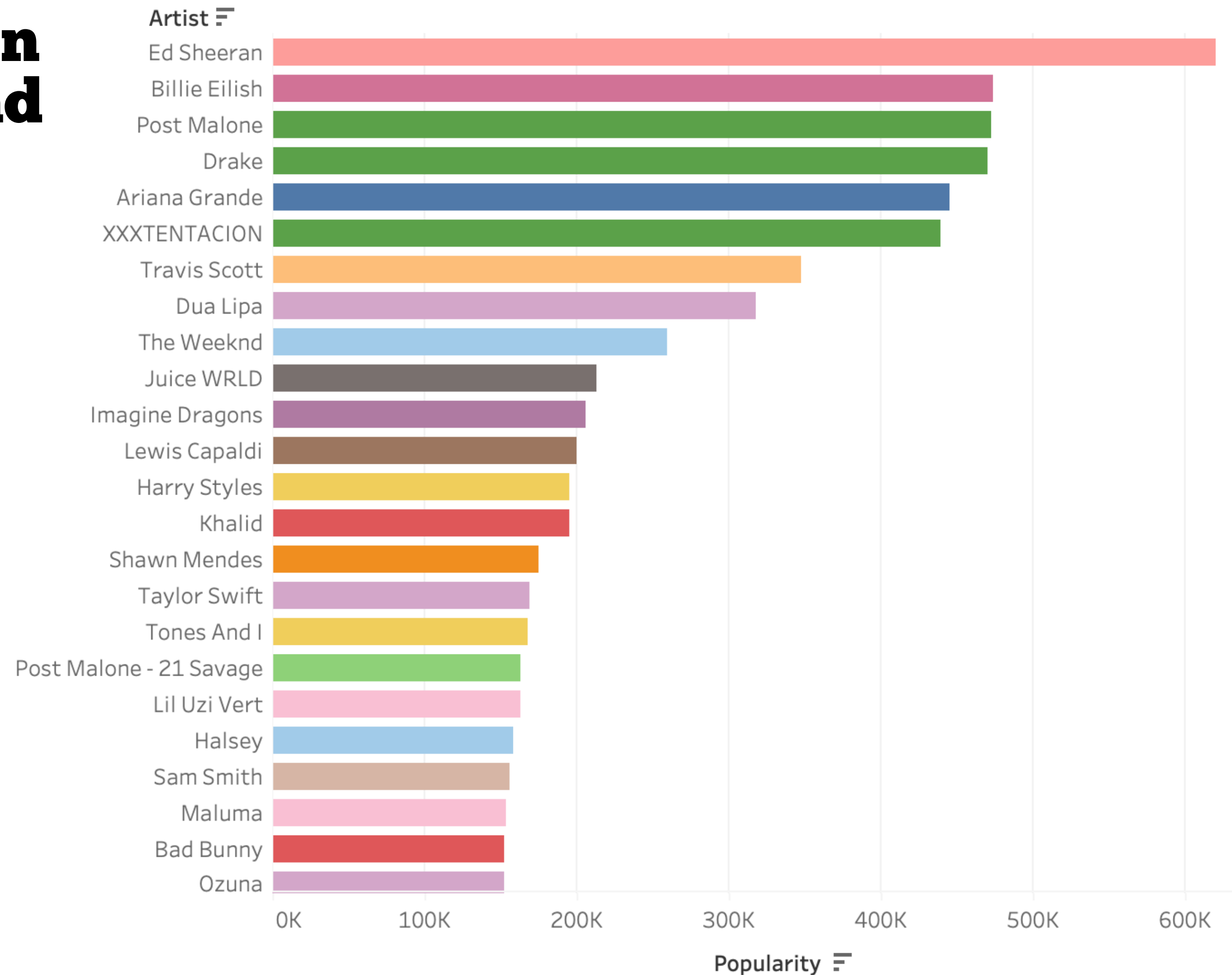
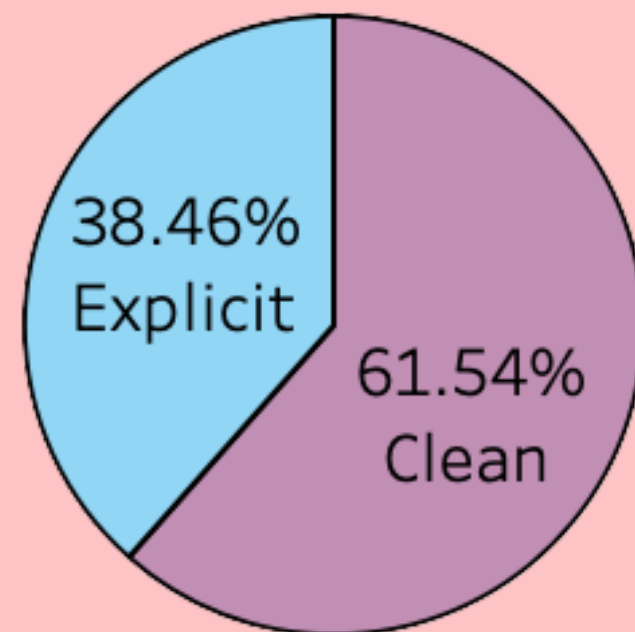
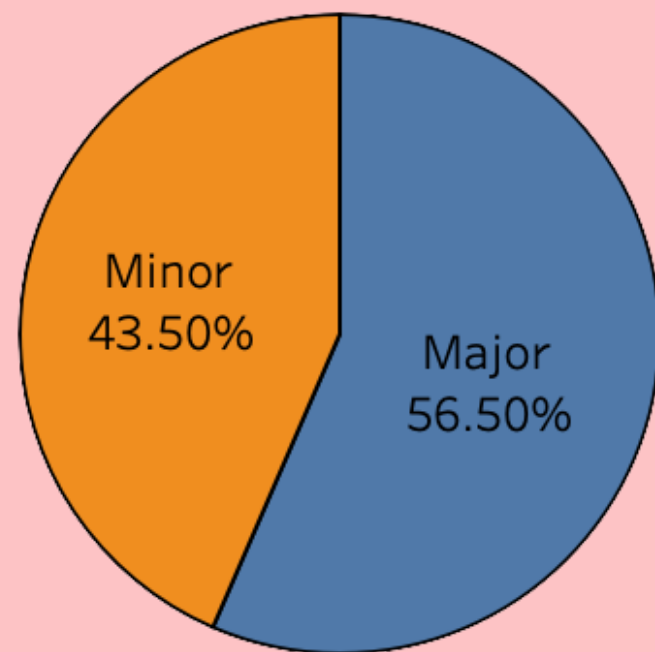
3

Variables

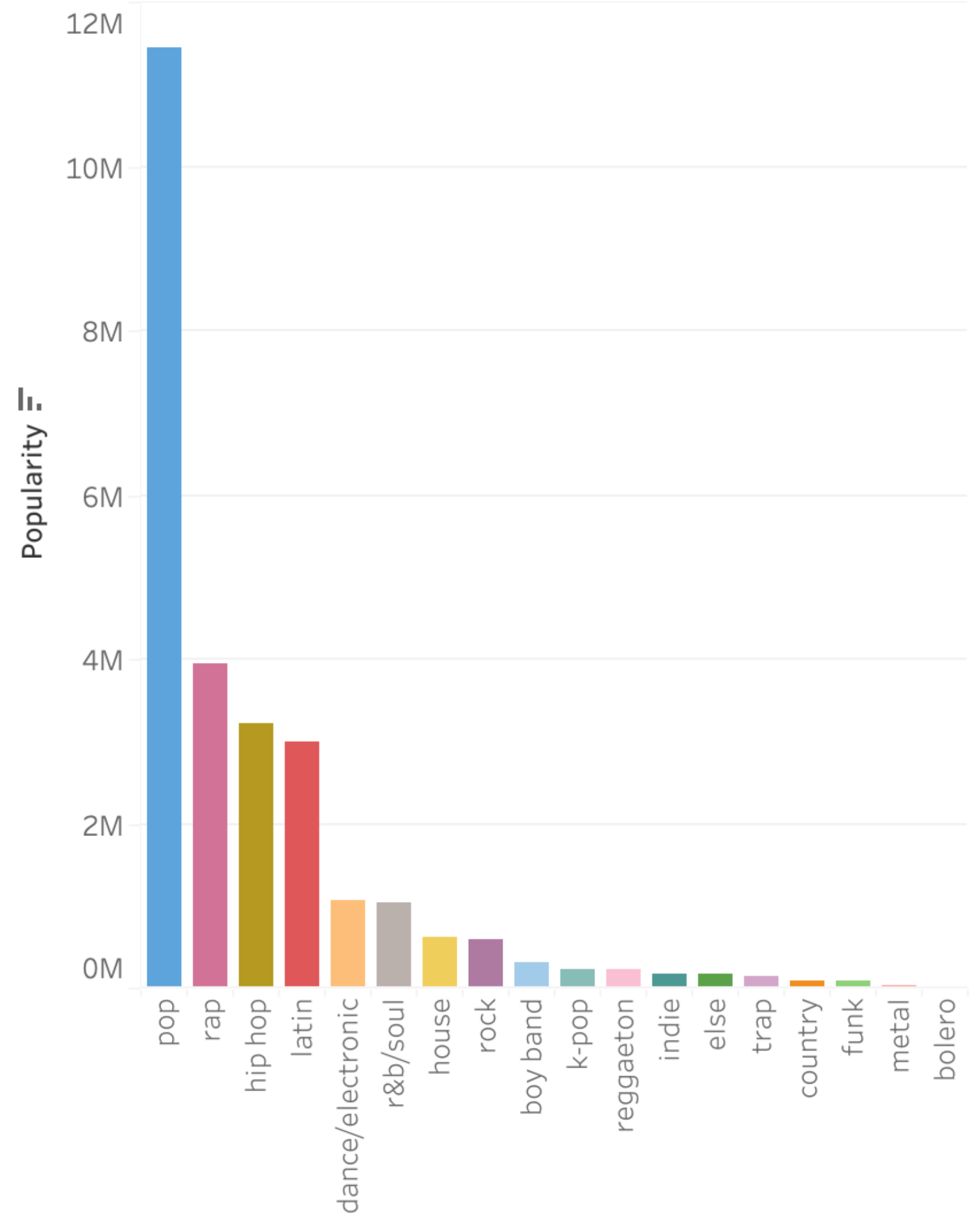
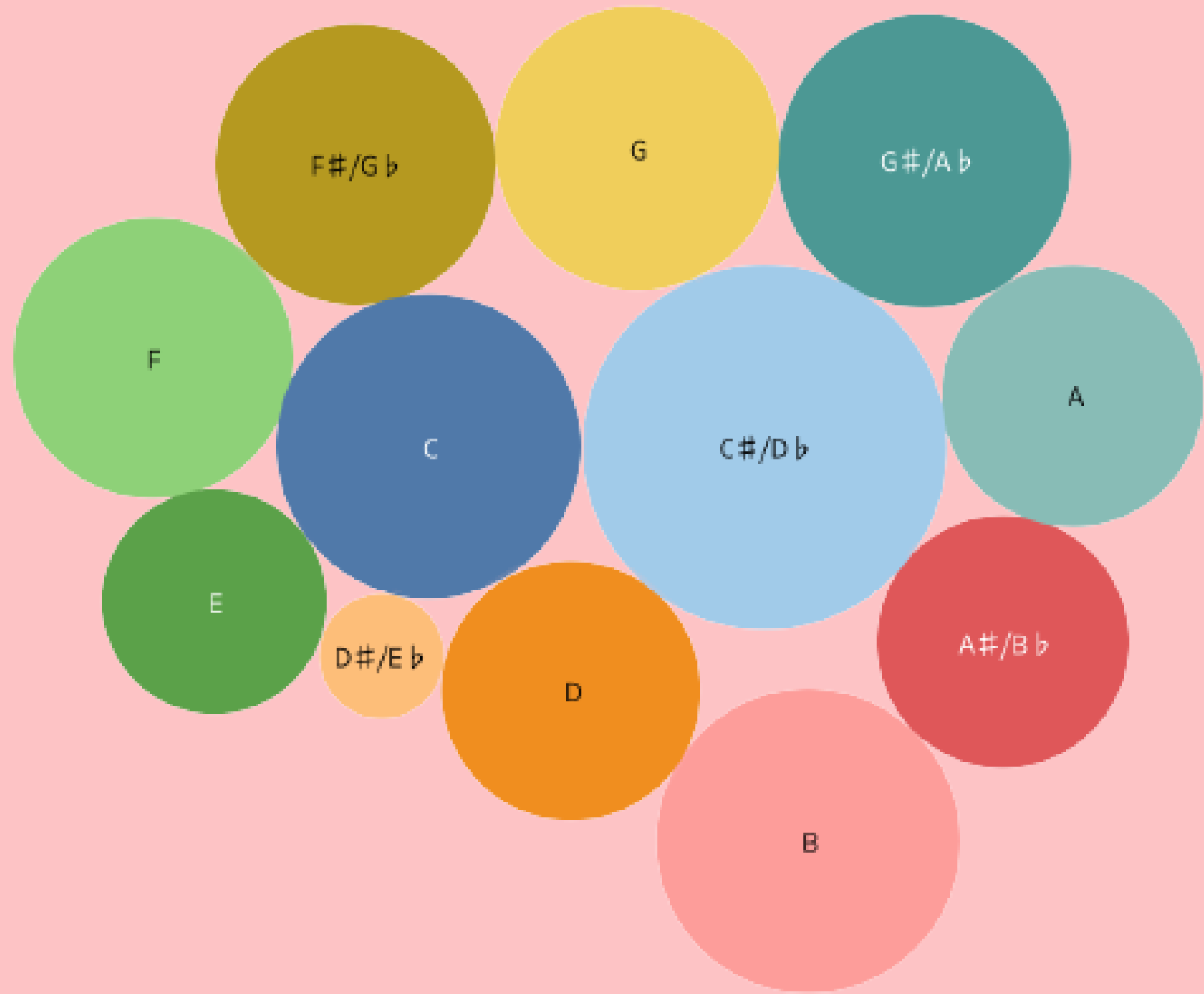
- Popularity
- Danceability
 - Key
 - Mode
- Energy
- Loudness
- Speechiness
- Acousticness
- Instrumentalness
 - Liveliness
 - Valence
 - Tempo

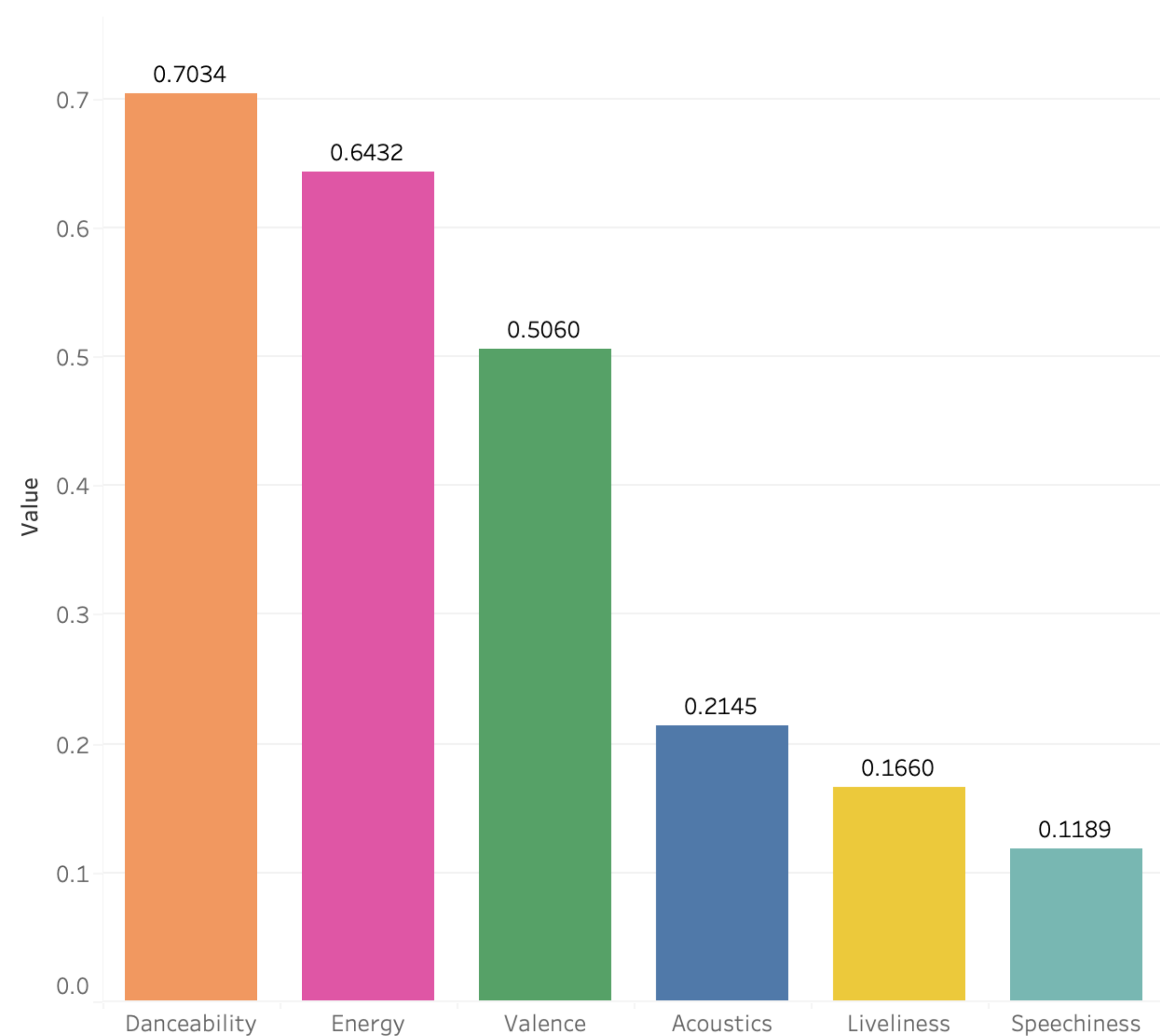


Popularity based on artist, explicitly and mode



Popularity based on key and genre





Popularity

Duration



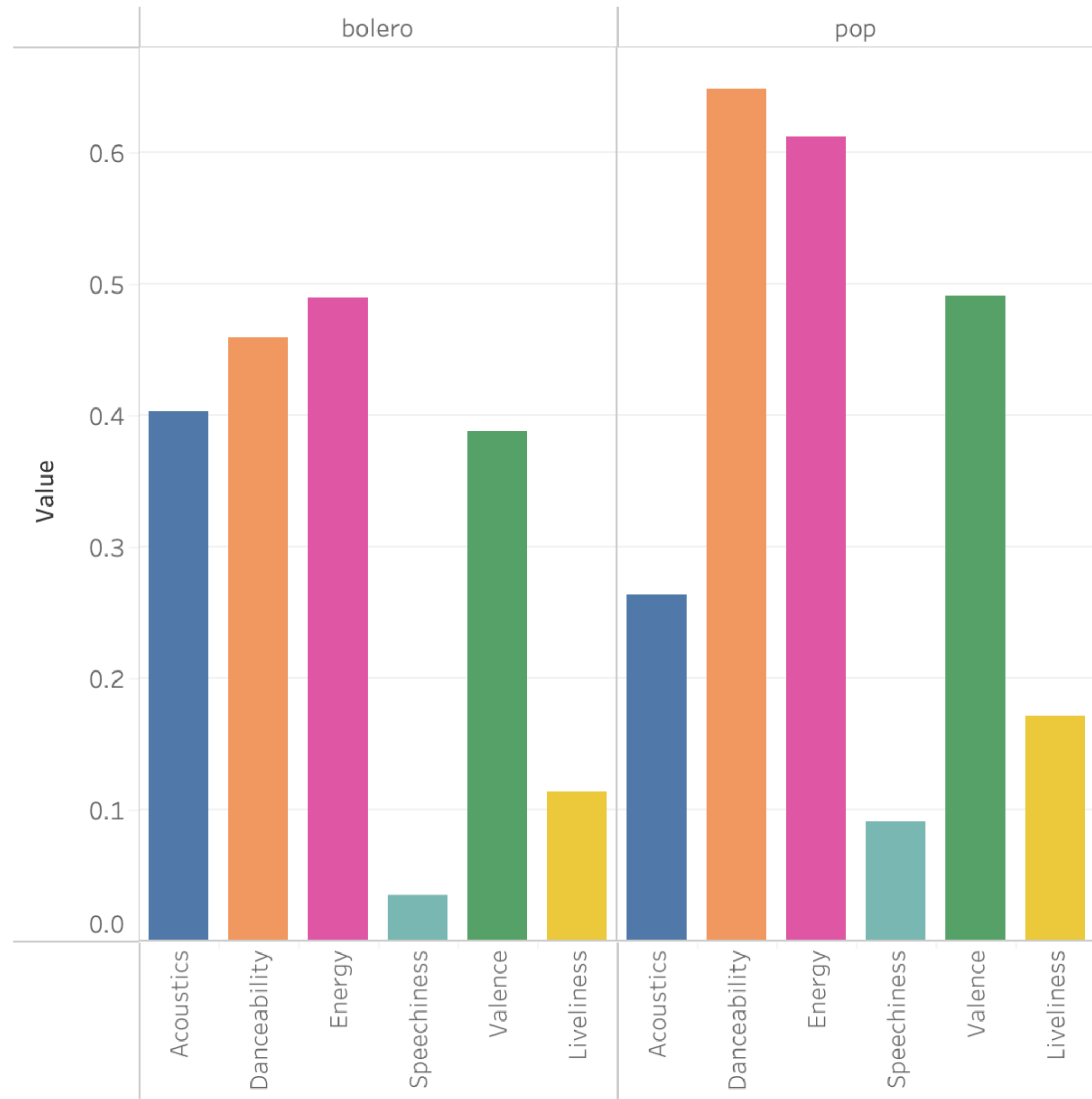
Tempo



Loudness



The variables based on genre and popularity



Findings -- The Formula

| Variable | Inferences |
|----------------|------------|
| Genre | Pop |
| Mode | Major |
| Key | C#/Dd |
| Loudness | -5.81 |
| Tempo | 120.25 |
| Duration (sec) | 2074.59 |
| Valence | 0.51 |
| Acoustics | 0.2145 |
| Energy | 0.64 |
| Danceability | 0.70 |
| Speechness | 0.12 |
| Liveliness | 0.17 |
| Single/Album | Single |

Any Questions

