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Trends in Music Over Time

Topic and Rationale

Using Spotify and Billboard Top 100 API data we intend to show trends in music over time. We will visualize the top albums by year with a comparison for two different years - including bar charts for audio features (Energy, Danceability, Tempo, Duration). We will also show a word cloud visualization based on playlist descriptions by Spotify playlist category and the top songs by chosen year with bubble charts of the lyric frequency of those songs.

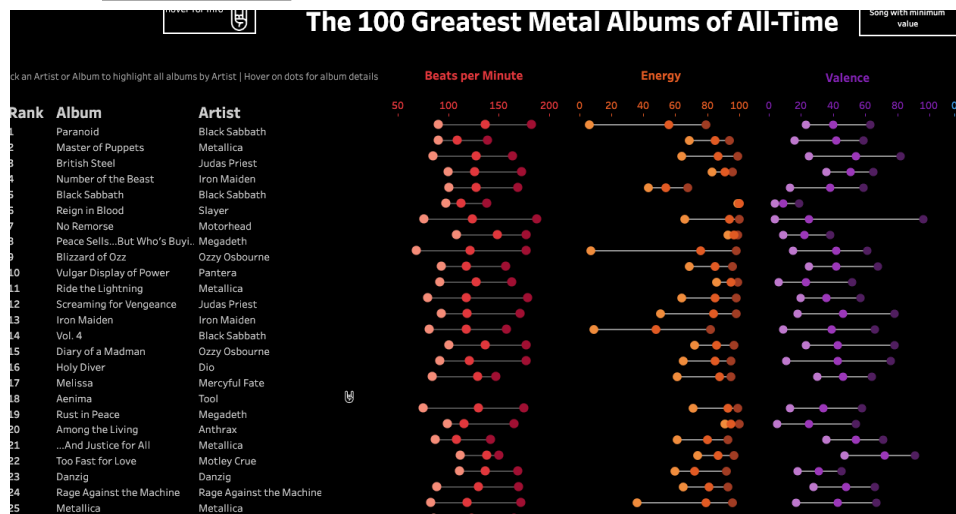
Dataset

Spotify API - <https://developer.spotify.com/documentation/web-api>

Billboard 100 - <https://rapidapi.com/LDVIN/api/billboard-api>

Inspiration

Music features



Playlist names



<https://d3-graph-gallery.com/wordcloud.htm>

Project 3, Group 3:

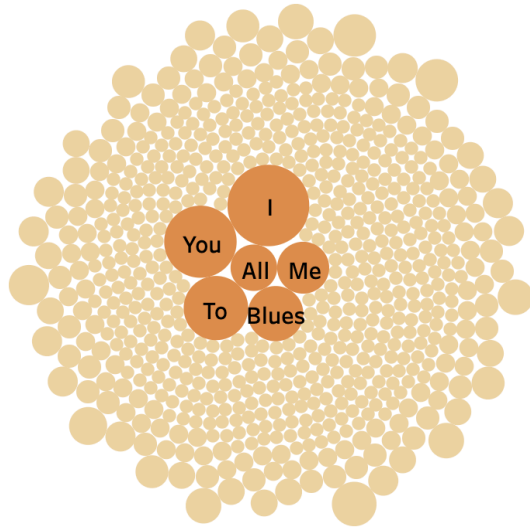
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Lyrics

Most Common Words in

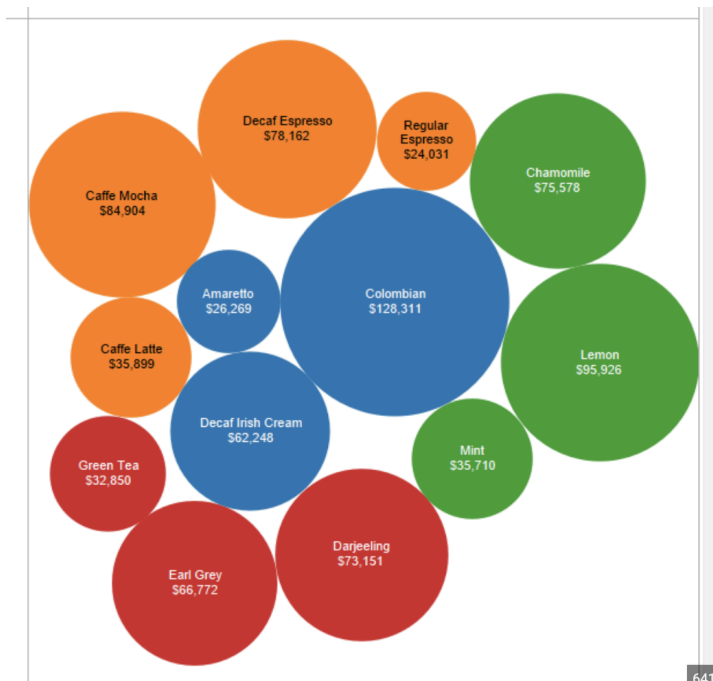
Bob Dylan's Songtitles



His songs are about relationships:
You and I (Me)

Reaching everybody:
To All

And simply:
Blues



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Trends in Music Over Time

Sketch of Final Design

Top Albums and Music Features					Playlist Naming Trends by Category
Pick your years to compare					Pick your category:
Drop down year 1		Drop down year 2			Drop down playlist category
Top albums year 1		Energy	Danceability	Tempo	Duration
Album 1	Artist 1	_____	_____	_____	_____
Album 2	Artist 2	_____	_____	_____	_____
Album 3	Artist 3	_____	_____	_____	_____
Album 4	Artist 4	_____	_____	_____	_____
Album 5	Artist 5	_____	_____	_____	_____
Album 6	Artist 6	_____	_____	_____	_____
Album 7	Artist 7	_____	_____	_____	_____
Album 8	Artist 8	_____	_____	_____	_____
Album 9	Artist 9	_____	_____	_____	_____
Album 10	Artist 10	_____	_____	_____	_____
Top albums year 2		Energy	Danceability	Tempo	Duration
Album 1	Artist 1	_____	_____	_____	_____
Album 2	Artist 2	_____	_____	_____	_____
Album 3	Artist 3	_____	_____	_____	_____
Album 4	Artist 4	_____	_____	_____	_____
Album 5	Artist 5	_____	_____	_____	_____
Album 6	Artist 6	_____	_____	_____	_____
Album 7	Artist 7	_____	_____	_____	_____
Album 8	Artist 8	_____	_____	_____	_____
Album 9	Artist 9	_____	_____	_____	_____
Album 10	Artist 10	_____	_____	_____	_____
Top Song Year 1		Top Song Year 2			
Song1 Artist 1		Song2 Artist2			
Lyric Analysis		Lyric Analysis			
