

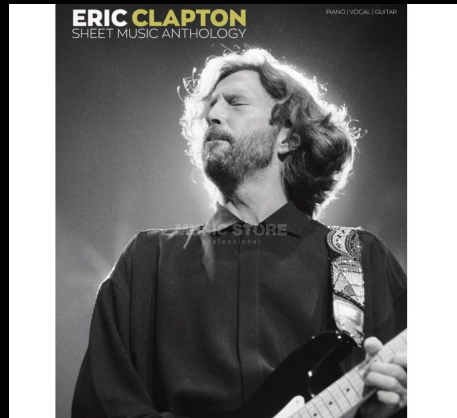
# Cracking the 'Chords' to Epic Rock Music!

## ANALYTICS- GROUP 2

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# PROBLEM STATEMENT



- Has the landscape of music shifted throughout the decades?
- What might be the mantra for crafting exceptional songs?
- Does staying atop the charts pose a greater challenge in modern times?

# PROBLEM STATEMENT

billboard

CHARTS

MUSIC

CULTURE

MEDIA

BUSINESS



Harry Styles

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CHARTS AND NEWS

wouldn't find them towards the top of the [Billboard Hot 100](#) lately. While the Hot 100 measures the biggest songs in the country every week, recently the chart has been absolutely dominated by holdovers from 2021 — some of which didn't begin their chart runs in 2022, some of which have only hit their peaks in 2022, and some of which have just continued to hang around the listing many months (a couple even close to a year) after reaching their chart apex.

## + RELATED



Ask Billboard: The Kid LAROI & Justin Bieber's 'Stay' Makes History on the Hot 100

04/11/2022

In fact, if you look at last week's chart, dated April 9, more than three months into the calendar year, you'll find more songs in the both the top 10 (Glass Animals' "Heat Waves," No. 1) and top 20 (Dua Lipa's "Levitating," No. 15) that were released in 2020 than in 2022 — with the latter year only represented by Yahritza y Su Esencia's brand new "Soy El Unico," a debut entry at No. 20. (The Weeknd's "Save Your Tears," at No. 17, also began its chart journey a full two years earlier, in April 2020, though the Ariana

## MUSIC BUSINESS



Why old music is now more popular than new music and what to do about it

Everybody loves a good oldie but goodie, but is it so much that new music is suffering? Let's find out.

A guest post by *Bobby Owsinski* of *Music3.0*.

There's a post written by **Ted Gioia** called "Is Old Music Killing New Music?" that's sweeping through the music industry right now. It's based on the recent report by MRC that states that more than 70% of all music consumed in the U.S. is what's known as catalog, or older than 18 months. In many cases, it's way older, like decades. Even more important is that old music is clearly driving the profits of the music business these days, even though the latest hits get all the hype.

There's a lot of great data and observations in that post and it's definitely something you should read, but I want to elaborate a bit on this trend and perhaps shed some light on why I believe we're heading in the direction of old music dominating consumption.

# GATHERING THE GROOVES

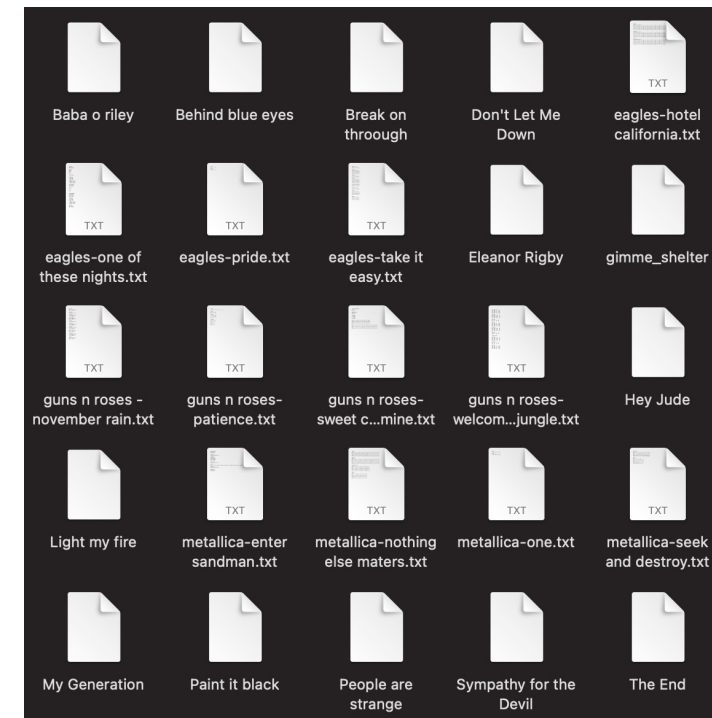


ULTIMATE  
GUITAR  
COM

**F** **C**  
Hey Jude, don't make it bad  
**F/C C7 C7sus4 C7 F**  
Take a sad song and make it better  
**Bb F**  
Remember to let her into your heart  
**C F**  
and then you can start to make it better

[Verse 2]

**F C**  
Hey Jude, don't be afraid  
**F/C C7 C7sus4 C7 F**  
You were made to go out and get her  
**Bb F**  
The minute you let her under your skin  
**C F Fmaj7 F7**  
then you begin to make it better



# PRE- PROCESSING

## Libraries:

Counter

Pandas

matplotlib.pyplot

wordcloud.

## NLTK stop words:

It downloads the stop words dataset from the NLTK library, which will be used later for stop word removal.

## Libraries:

Numpy

Pandas

## TfidfVectorizer:

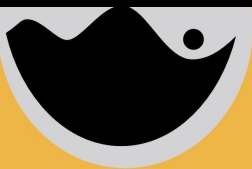
Converts a collection of raw documents into a matrix of TF-IDF features.

## cosine\_similarity:

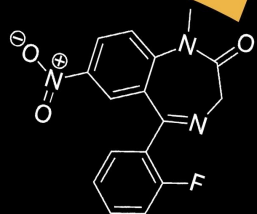
measures the similarity between two vectors of an inner product space.



# MANTRA



Don't  
let me  
Down



**INSPIRATION**



**WORDS**

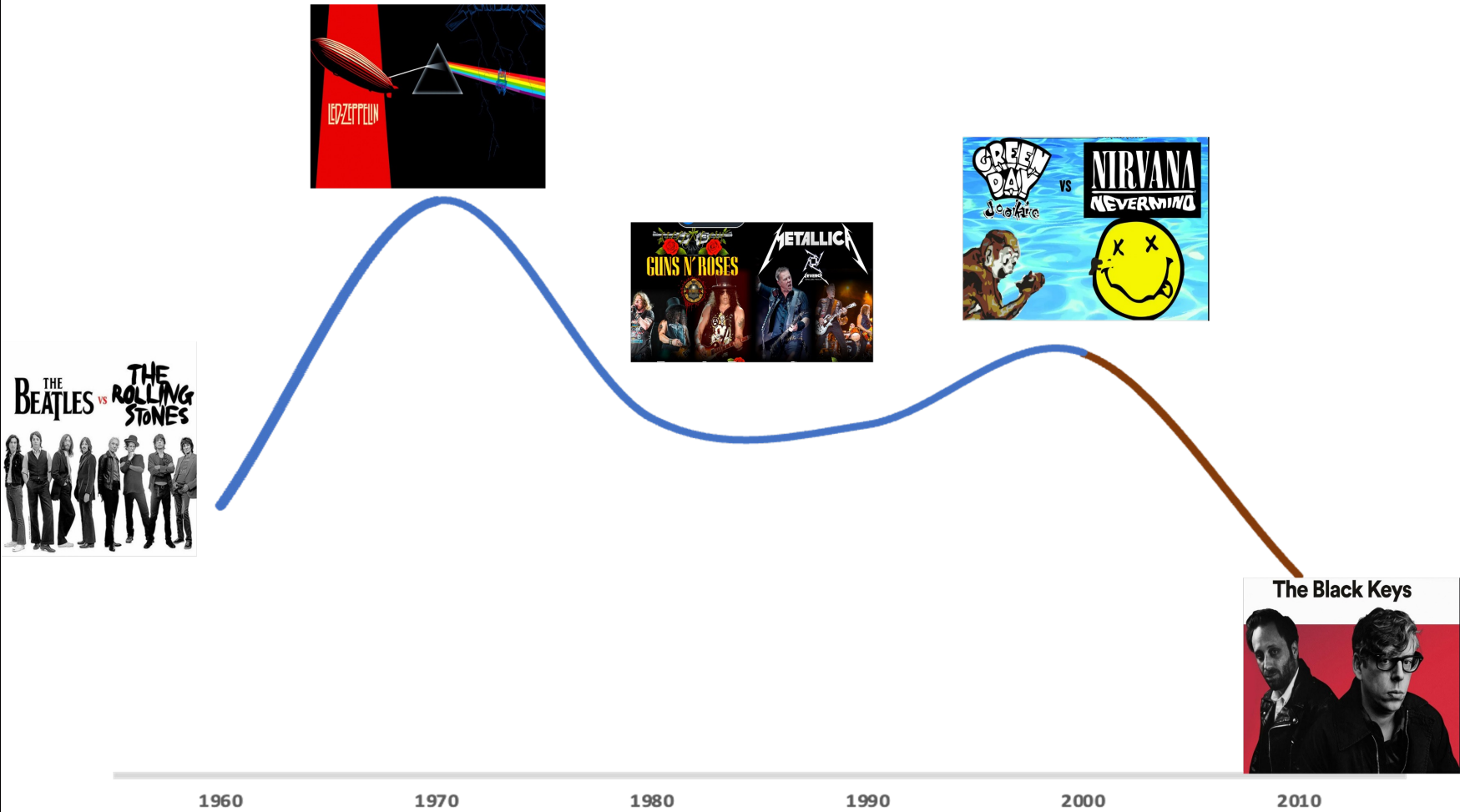


**EMOTIONS**



# THE LONG AND WINDING ROAD..

Year	Cosine-Similarity
1960	0.293
1970	0.17108557
1980	0.25784506
1990	0.26028465
2000	0.23161823
2010	0.32069646



# WORD FREQUENCY

- Reads the lyrics - tokenize the words.
- Removes stop words
- Top 50 words – frequencies
- Generate a WordCloud

Tag Cloud for 1970s



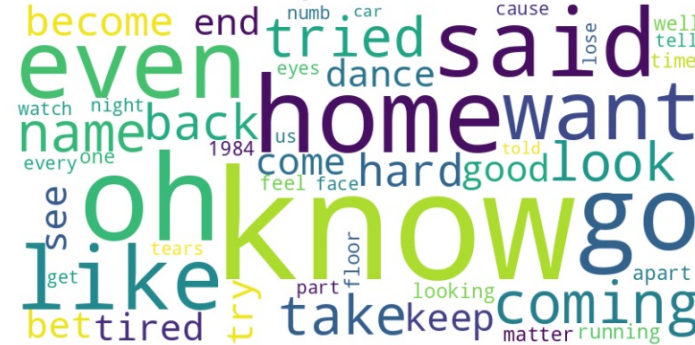
## 1970s

Tag Cloud for 1990s



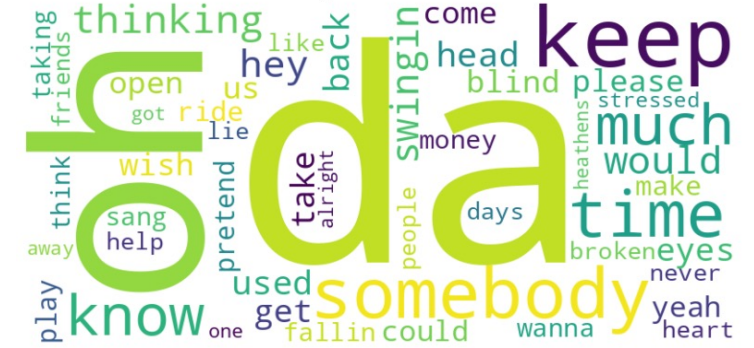
1990s

### Tag Cloud for 2000s



2000s

Tag Cloud for 2010s



2010s



# SENTIMENT

File	Sentiment Score	Sentiment Label
1960	-0.9938	Negative
1970	0.9996	Positive
1980	0.9969	Positive
1990	-0.9997	Negative
2000	-0.9987	Negative
2010	0.9996	Positive

1960s	Optimism and Love
1970s	Social and Political
1980s	Individualism and Celebration
1990s	Angst
2000s	Love and Heartbreak
2010s	Technology and Self



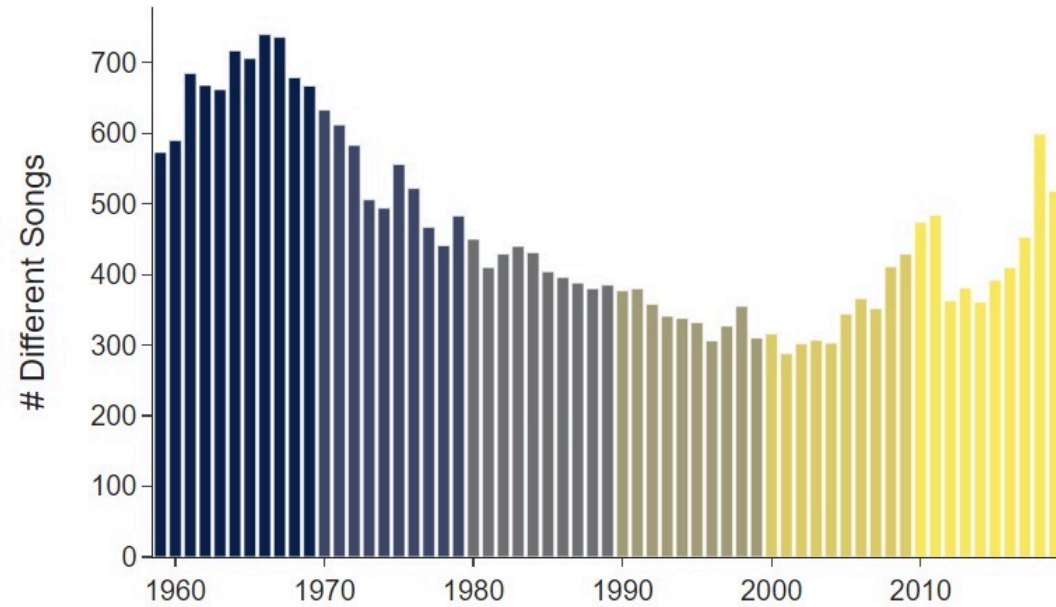
File Path	Sentiment Score	Sentiment Label
Another brick in the wall	-0.7455	Negative
Bell bottom blues	0.9768	Positive
Bohemian Rhapsody	-0.9913	Negative
Comfortably numb	-0.8343	Negative
Dazed and confused	-0.9955	Negative
Dont stop me now	0.9987	Positive
I looked away	0.1655	Positive
I want to break free	0.9974	Positive
Kashmir	0.7286	Positive
Keep on growing	0.9983	Positive
Layla	0.9813	Positive
People are strange	-0.9913	Negative
Stairways to heaven	0.8986	Positive
Whole lotta love	0.9981	Positive
we are the champions	0.9916	Positive
wish you were here	0.8948	Positive
Average	0.3169875	



File	Sentiment Score	Sentiment Label
A Punk	-0.2263	Negative
Cape Cod Kwassa Kwassa	0.9456	Positive
Chlorine	0.9072	Positive
Glid on the Ceiling	0.8693	Positive
Hannah Hunk	-0.9797	Negative
Heathens	0.993	Positive
Howling For you	0.8367	Positive
Keep on Swingin	0.8254	Positive
Little Black Submarines	-0.9959	Positive
Lonely Boy	0.9957	Positive
Open My Eyes	0.3025	Positive
Oxford Comma	-0.8823	Negative
Pressure and Time	0.3309	Positive
Ride	-0.7632	Negative
Stressed Out	0.9985	Positive
Too Bad	-0.8237	Negative
Over Average	0.1961	

# SENTIMENT

How Many Different Songs Make the Hot 100 Each Year?



[Chorus]

We are the champions, my friends  
And we'll keep on fighting 'til the end  
We are the champions  
We are the champions  
No time for losers  
'Cause we are the champions  
Of the world



Something filled up  
My heart with nothing  
Someone told me not to cry

But now that I'm older  
My heart's colder  
And I can see that it's a lie



# CONCLUSION

INSPIRATION

+

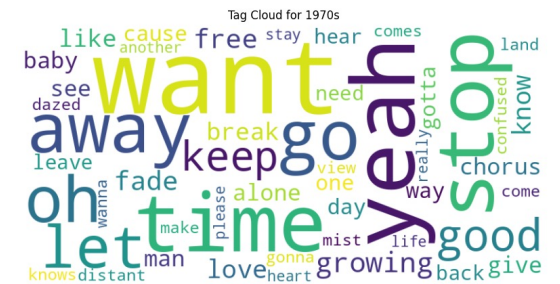
WORDS

+

EMOTIONS



1970s



POSITIVE  
NEGATIVE



