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The Perfect Recipe to Make It on the Music Charts...

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Problem Statement



WHAT?

Identify the recipe for a hit song.

Our objective is to offer music producers and composers valuable guidance and insights on crafting hit songs.

WHY?



Market relevance



Audience engagement



Competitive advantage

Data source and Pre-processing

Scraped **10k** rows from [AcclaimedMusic.net](https://www.acclaimedmusic.net) to identify the **top artist and songs** spanning the years 1897 to 2019



For the **top 4000** artist and songs we extracted the lyrics from [A-Z lyrics](#)



Data Handling

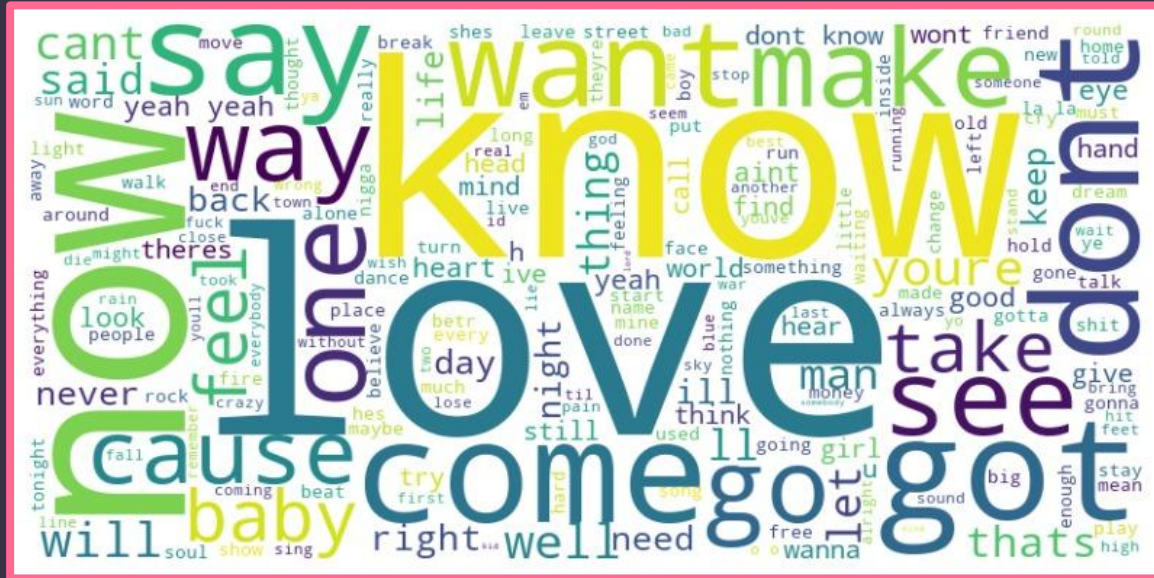
- Word tokenization
- Removal of stop words, punctuations and irrelevant words from the lyrics (ooh, aah etc.)
- Lemmatization



| Rank | Artist | Song | Genre | Year | Lyrics |
|------|------------------|----------------------|----------------|------|----------------|
| 3002 | Elvis Presley | Little Sister | Pop Rock, Ro | 1961 | Little sister, |
| 3003 | Lucinda Williams | Passionate Kisses | Alt-Country, J | 1988 | Is it too |
| 3007 | Bad Company | Can't Get Enough | Blues Rock, H | 1974 | (1, 1-2-3) |
| 3008 | Ariel Pink | Put Your Number in N | Indie Pop, Jar | 2014 | There, Äös |



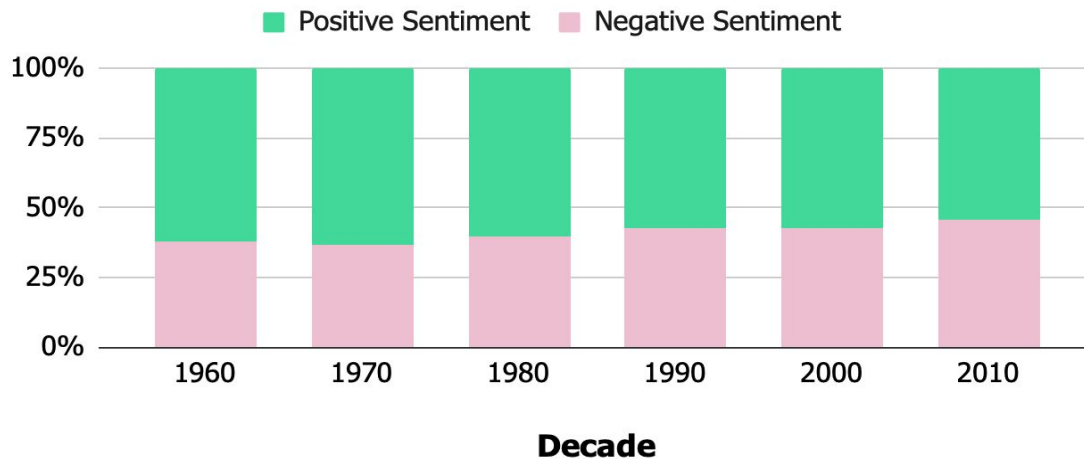
Word Frequency Analysis



Sentiment Analysis



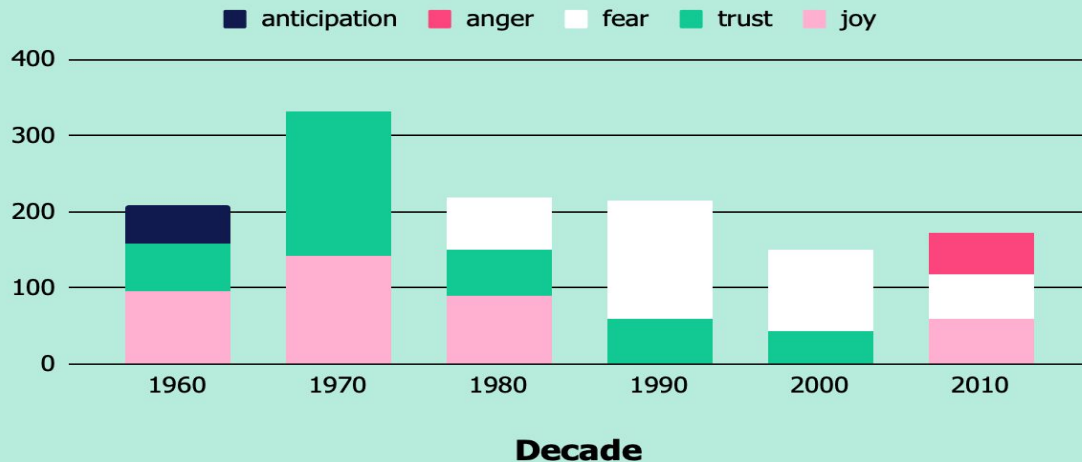
Positive and Negative Sentiment Over Decades



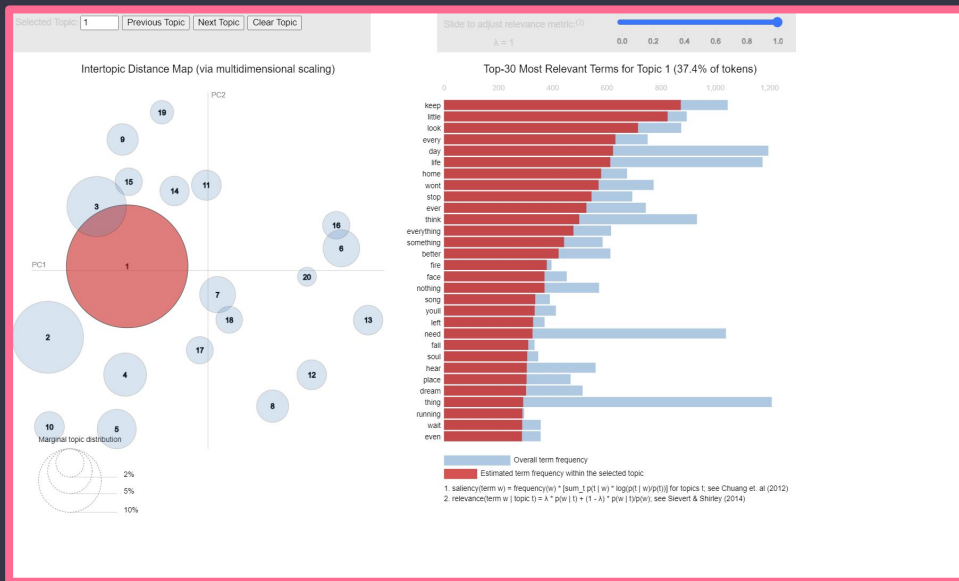
Emotion Analysis



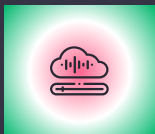
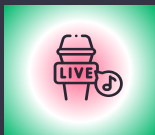
Emotions over the Decades



Topic Modelling



Personal themes remain constant in song lyrics across decades. Secondary themes shift from relationships to broader expressions, highlighting the enduring importance of a personal connection with the audience.



Recommendations



Sentiments 1h10min

Mix in more positivity in your tunes, but don't shy away from a bit of realness. Strike that balance – upbeat with a touch of raw emotion – to connect with your listeners on a deeper level.

Emotions 1h20min

Enhance your music with increased joy to offset declining trust emotions, and add a touch of controlled anger for a contemporary edge in line with current trends.

Topics 1h30min

Enhance your songwriting by balancing timeless personal themes with broader expressions, ensuring a deep and lasting connection with your audience.



LLMs using our Recipe



Generate song lyrics based on these factors:

Sentiment: Positive 55%, Negative 45%

Emotions: Joy, Fear, Anger

Theme: Everyday Life, Attributes/Expressions, Relationships



(Verse 1)

In the hustle and bustle of everyday life,
We find joy in the moments, fighting the strife,
With every challenge that we face, we stand strong,
Through fear and anger, we'll sing our song.

(Chorus)

Oh, in this crazy world, we find our way,
Through the ups and downs, we seize the day,
With love and laughter, we'll light up the night,
In the tapestry of life, we're shining bright.

(Verse 2)

When the fear creeps in, we won't back down,



Any questions?

