

Working Title

Music's Top Words

One Sentence Summary

Lyrical analysis of popular songs since 1964, such as linking words to time periods, showing the rise and fall of vocabulary, and creating word clouds for decades.

Summary of the dataset we are using

From 1965 - 2015, this dataset compiles the top 100 year-end billboard songs from each year, along with their lyrics. The data was scraped from wikipedia.com and a few lyric sites like metrolyrics.com. The dataset was originally created and uploaded to Github by Kaylin Pavlik and again published to Kaggle by RakanNimer. The dataset includes 5100 entries, each including the name of the song, the artist, the lyrics of the song, the year in which the song made the billboard top-100 list, as well as the rank (1-100) that the song earned in the year-end Billboard top-100 list, lastly, the entries also include a number corresponding to the website from which the song lyrics were scraped.

Audience and Goals

User Constituencies

This website is for anyone who finds it interesting. More than anything, it is a cool website for people to play around with and learn things. Here are some intended constituencies: Music Lovers, like someone who is looking for what songs from certain decades have in common, but generally just want interesting facts about music; Language Lovers, like someone who is interested in how certain words or profanity have risen or fallen in use throughout the years, or which words closely match with a certain time frame; Aspiring Artists, like someone who wants to see which words popular songs have in common in hopes of creating a popular song themselves; Casual internet browsers, who enjoy seeing cool websites, learning interesting relationships and facts.

Users may not know exactly which words or time periods they are looking for, but they might. They are looking for an easily navigable website which presents options for customized search, or presents interesting data for casual viewers. This website should be welcoming to anyone who knows how to use the internet, with visuals, clean designs, and a non-complicated system.

Personas

See personas doc

User Stories

See user stories doc

Website Requirements

Functional:

- Search function to find a specific word and see it's trend over time
- Search function to find a specific time frame and see it's popular words
- A report of interesting findings for the casual viewer
- Easily recognizable button to create a word cloud for each time period.

Non Functional:

- Website is interesting to a casual viewer
- Data presented understandably and with interesting graphs
- Website has clean, aesthetically pleasing look
- Operations on the data are fast and accurate

Team Collaboration Plan

Roles:

- Jack will likely work on backend process involving data structures, algorithms, and the like.
- Will is going to take point on SQL queries and other direct operations on the database.
- Zev will likely work on website functionality and layout as well as backend data analysis.

We will be meeting on Tuesdays at 1:30PM to work on the project, and will be creating a slack channel to coordinate outside of our meetings.