

Final Written Report

Song Lyrics Analyzer

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Technologies

I used **Natural**, a natural language processing tool to process the lyrics of the different songs.

To create the “Stars”, which are the visual representation of song lyrics, I used several technologies. The arcs are drawn using **p5.js**.

The color will be determined using **Sentiment Analysis**, an algorithm of **Natural**.

Features

“Stars” are the main feature of my project. Each star represents the diversity of an artist’s lyrics. A star contains twenty arcs, which all represent a single word. The longer the line is, the more times the word was found in the database for this artist.

A feature that I would have liked to implement is letting users add a new artist. It would have been a really nice feature to have, as it would become collaborative.

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Add your own artist!

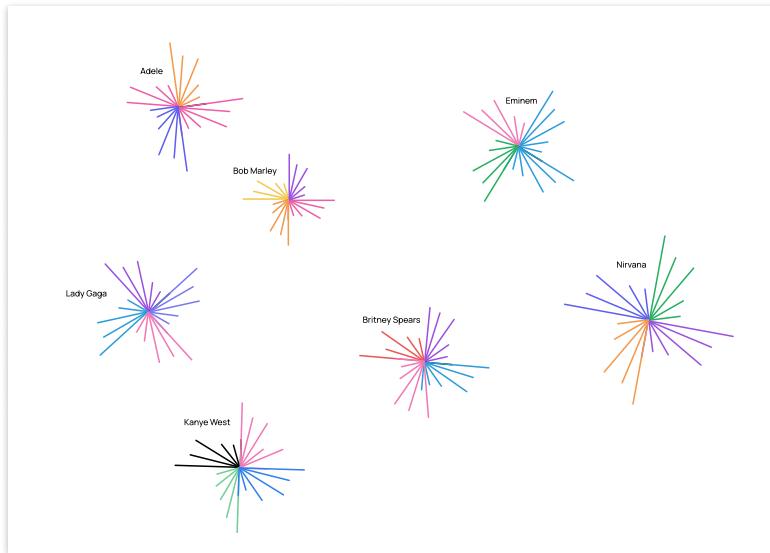
Name of the artist

Enter the lyrics of their songs.
Do not input [] {} or ;

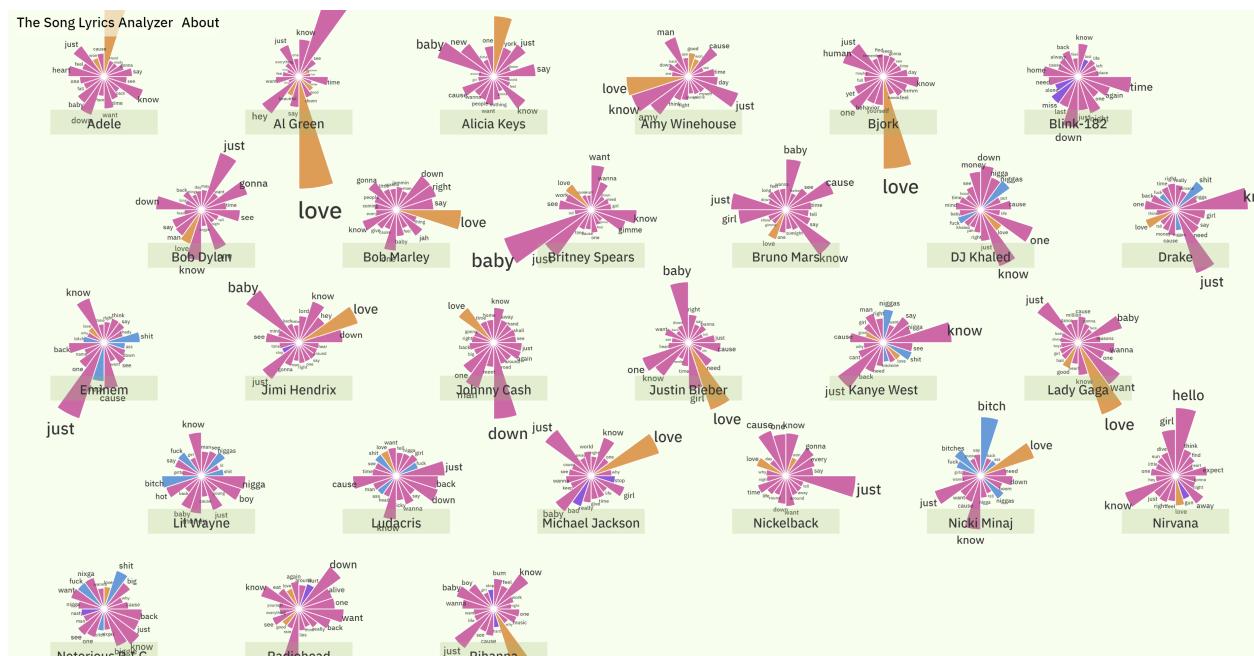
Send

How the project implements the intended idea

Below is a design of the intended creation and a screenshot of the final project. I believe that I have successfully achieved my goal.



Intended creation



Final project

Inspiration from in-class readings

Hito Steyerl

Hito Steyerl's text highlights the importance of putting data in context. She starts the text by showing an abstract image revealed by Edward Snowden. Taken out of context, this image does mean anything: "Snowden's image of noise could stand in for a more general human inability to perceive technical signals unless they are processed and translated accordingly". In a similar way, my project will extract words from songs, exactly as they were written, and try to make analogies and conclusions from these individual words. My project will not consider groups of words or expressions. Although the data will be accurate strictly considering the words, the meaning behind the songs is not reflected in the end result.

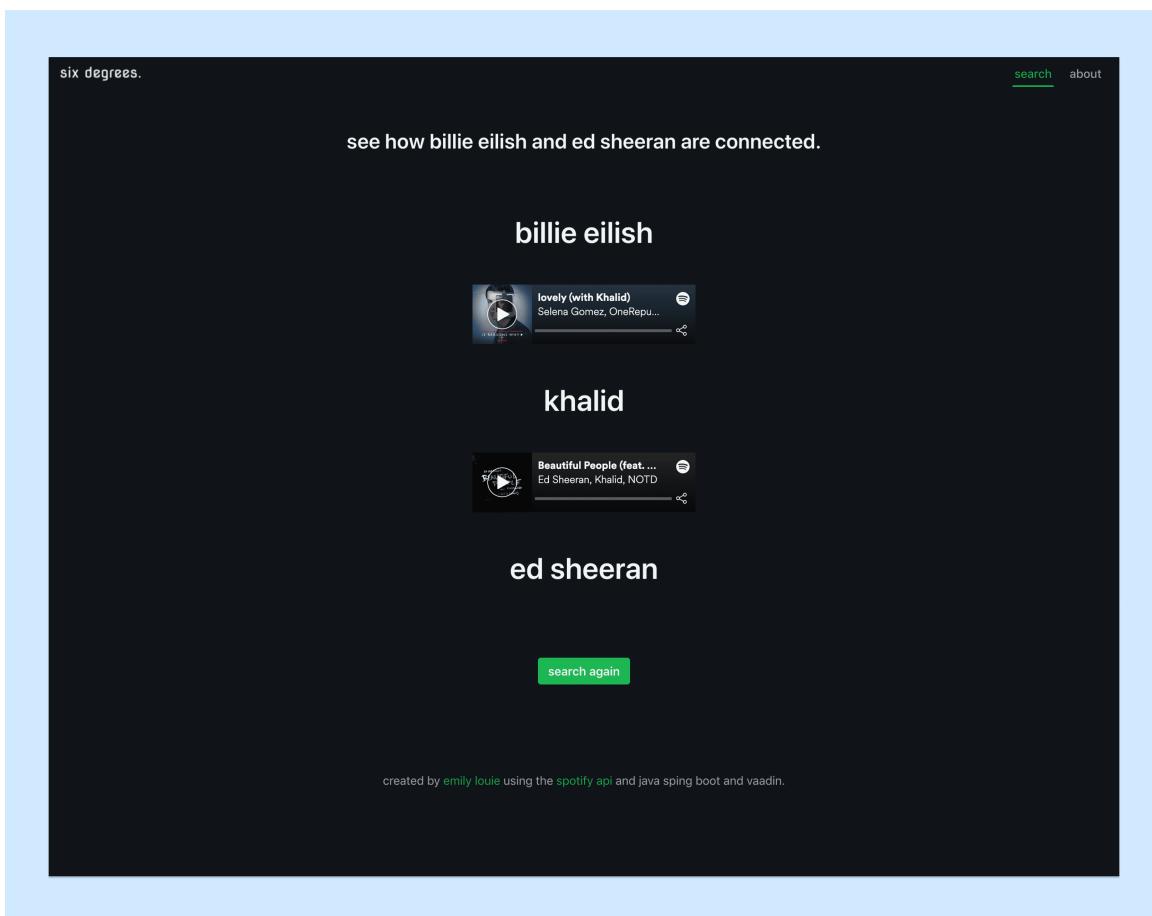
Mimi Onuoha

At first, I thought that my dataset could not be biased because the lyrics of the songs can easily be verified. Then, I realized that the artists and songs in this dataset are only a small fraction of all pop music. My project could demonstrate that pop artists use a lot of swear words, that there is no meaning behind the songs and portray a negative image of the genre. The algorithm will not be able to make sense of all the words together and analyze them individually, which could distort the intended meaning behind the songs.

Other Inspiration

Six Degrees of Spotify

A very interesting project made using a lot of data is Six Degrees of Spotify by Emily Louie. In 2020, she created a website that relates the theory of six degrees of separation to music. This theory is that every person in the world is connected to anyone in less than 6 connections. Using the Spotify API, she was able to determine how two artists were connected to each other by looking at their collaborations on songs.



Other Inspiration

Music-map.com

Music-map.com is a website illustrating the connections between different music artists. The user inputs the name of an artist, and a representation appears, showing similar music artists. The user can then click on each artist to see artists similar to this one. I plan on using a similar system to visualize information.

