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MART 340

Final Project Overview

For this project I wanted to make a frequency analyzer in Javascript. I based it off of a circular analyzer I saw online but I made it stretch across the screen rather than around a circle in the center. It works by mapping different sound frequencies to their own bar and then moving that bar with the amplitude. This makes a really cool way to visualize any sound file that is added to the code.

I got it to work well on a basic level but when I really tried to spice it up it didn't like it so I decided to keep the final version in a working state. One thing that I wanted to add that I wasn't able to was make an upload feature, so that the user can upload and visualize any song or sound file that they want. This would have been a lot more interesting and would have added a layer of user interaction. One thing that I wish I was able to do that really would have made the whole piece much more interesting is adding random color palettes. For example, rather than the black background and red-yellow spectrum for the bars, every time you refresh it could randomize to another palette. Adding the color randomization proved to be a huge challenge and the fact that I wasn't able to get it to work is also probably my biggest regret of this project.

While there were some troubles, overall it looks good, the button looks good and works, and the sound actually plays and is visualized, so I'm pretty happy with it. For the future, I would like to get the random color palettes up and running, and also have an upload mp3 section rather than just the sample I included. One other thing that

could be cool that I didn't think of until presenting is rather than making bars for each frequency range, it could be one connected and fluid line. The visual would be almost the same, it would just be smoother. While there are a few things I would like to improve overall I'm happy with how this project came out.