Overview

While music is for most people, nothing more than a hobby, people like to show their music in the best light possible, therefore I thought it was important to create an audio visualizer system. The way the system works is that people have a default visualizer which is incentive to use the website and then the user has an option to use more advanced custom visualizers. For this project I have set the grounds by implementing the Soundcloud API, analyzing the songs sound as well as creating the default visualizer that could be customized in the future.

Design Process

I did a lot of research looking at many different visualizers and shaders on Shadertoy.com to get started creating the visualizer. The shaders looked impressive and it showed me what was possible to do on chrome but the implementation was tricky and didn't work very well across browsers. Most of the searches I made and websites I came across were broken on chrome so I had to find a way to create the visualizer that would work on chrome and Firefox at least. I did a lot of looking into the science of music and how sound frequency works in order to figure out how to translate it into visuals.

I found it very important to understand what makes music move. I found that bass frequency's give more of an emotional response while the higher frequency's attribute to the character and timbre of the sounds. This is why I mapped the logo to jump with the bass frequency's as they are the frequency's that give that jumping feel. I also changed the rating system to prompt the user during the music as it is fresh in their mind and they should be able to also see with the visuals how well engineered the sound is and perhaps learn something.

The final design features the default visualiser for the website, the way this is coded allows for many adjustments and custom designs in the future.

Finished Design

John Smith

ARTISTS NAME AND PICTURE

Rate John Smiths talent
☆ ☆ ☆ ☆ ☆

PROMPT TO RATE ARTISTS TALENT

BEATMEET LOGO BOUNCES WITH FREQUENCY BANDS

(PREMIUM ACCOUNTS CAN INSERT OWN LOGO)

BEAT MEET

FREQUENCY BANDS BOUNCE SMOOTHLY

1:56 / 3:23