

Feasibility Report

Features:

- **Audio Visualization**
 - Web Audio API
 - Some JS graphics library
 - Three.js
 - P5.js
 - Canvas (built in)
 - Some music streaming API
 - Soundcloud, Spotify, Napster, etc.
- **Sharing visualizations with other users**
 - A database
 - Back4App, Firebase, etc.

Skill assessment

For audio visualization, I have essentially no experience in using the Web Audio API or graphics libraries. I could probably become skilled enough to create some simple audio reactive visualizations. For music streaming APIs, I have experience with the Napster API, but it only allows 30 second clips. The soundcloud API seems to allow full playback, but I need to test it to see if it is feasible.

For sharing visualizations with other users, I need a database. I have been exposed to Back4App this quarter. I'm fairly confident I can get a database working.