MusArt: Creating Musical Art Pieces

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Presentation Outline

01 Project Overview
02 Current Status
03 Future Plans
04 Acknowledgements and References
Incorporate music and art into existing technologies to create a tool that provides users a relaxing experience
Why Music + Art?

**Music** helps to regulate our heart rate

**Art** allows us to tune into the moment
Original Project Plan

Create biofeedback tool that incorporates audio and visuals

Ideas
- Generative music based on bio-indicators
- Assistive meditative App
A Variety of Perspectives

Enma Navarro  
Gong Master

Dr. Benjamin Knapp  
Founding Director of ICAT at VT

Dr. Katherine Biddle  
Registered Expressive Arts Therapist at Carilion Clinic
Updated Plan: MusArt

Create a web app which allows users to build individualized Audio-Visual art pieces based on provided templates

Is it...

Accessible? ✓
Feasible? ✓
Useful? ✓
Early steps
Beginnings of the Web App
Key Technologies Used

- **p5.js**: Used for visual elements
- **HOWLER.js**: Used for audio playback
- **REAPER**: Used for music creation
Next Features To Be Added

**Recording**
Allow user to include their own voice recording for the song

**Random Variable**
Introduce random slider for visual

**Audio Controlled by Drawing**
Have the drawing change various effects of the audio (panning, oscillators, etc.)
Main Areas Needing Improvement

1. Easy to Understand
2. Visually Interesting
3. “Bob Ross” Effect
Lessons Learned

Thinking is hard
Having to think through a design makes the building process much longer

Life is Long
There is always time to add more features, sometimes it’s good to step away from the computer

Others know much more
Having additional perspectives gets you a long way
Acknowledgements

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Resources

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Feedback is greatly appreciated! Any ideas would be helpful.