

GENERATIVE ART

Assignment 1.1

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WHAT

Creative Code held a showcase displaying several pieces of interactive art created by the most recent group of fellows to go through their immersive program.

Perhaps one of the most interesting and beautiful pieces was a data visualization piece by Taurin Barrera.

Barrera's work studied various environmental categories of San Francisco's microhoods through crowdsourced sensors placed around the city. The data gathered from the sensors served as a basis for an interactive 3D visualization and "electronic soundscape".

HOW

A user would interact with a large, projected 3D model through an iPad interface.

On the interface, each micro neighborhood was listed in its own button which could be selected for viewing.

Additionally, users could tailor the data they wished to see by time of day. With each user driven change and selection, the 3D model would respond to the change in data.

The currently displayed data was also visualized in the bottom of the UI, showing the amount of light, air pollution, sound, etc. The change in data created visual shifts and morphing from the 3D model.

UI

User walks up to iPad.

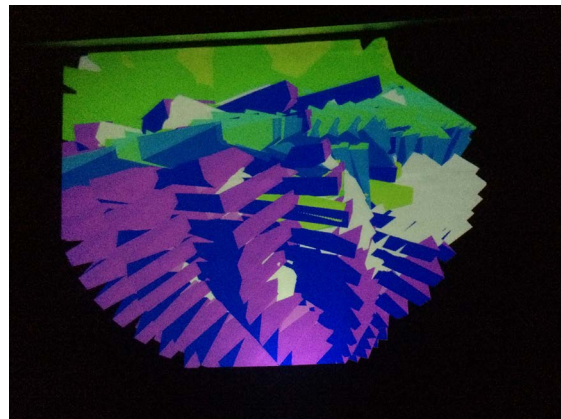
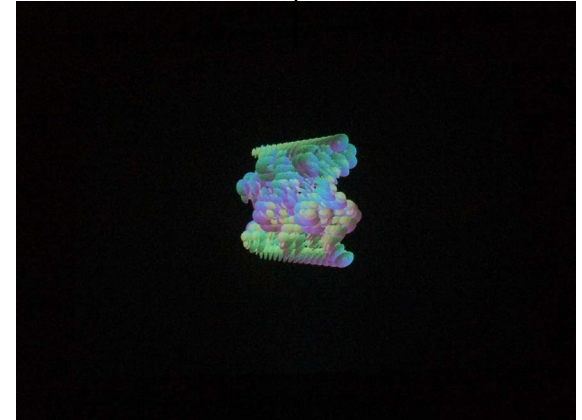
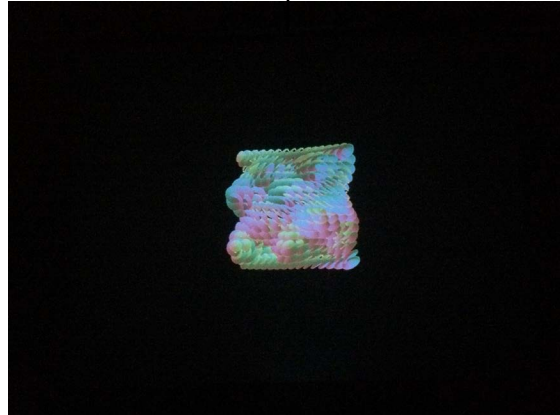
The 3D model is already projected and slowly spinning on the wall.

User selects microclimate/neighborhood or time of day they want get data on and see visualized.

The 3D model visually reacts according to the data it is given.

EXAMPLE

Soma



Marina

Mission & 23rd.

WHAT WORKS

I thought the 3D model was really beautiful, with graceful and fluid movements--the data was visualized in such a way that it was starkly apparent when you were in Soma versus the Marina, for instance.

It was also really satisfying to be able to make changes in the UI and see the data on the bottom of the screen change to your selection, and have that data instantly change what you were watching on the projection.

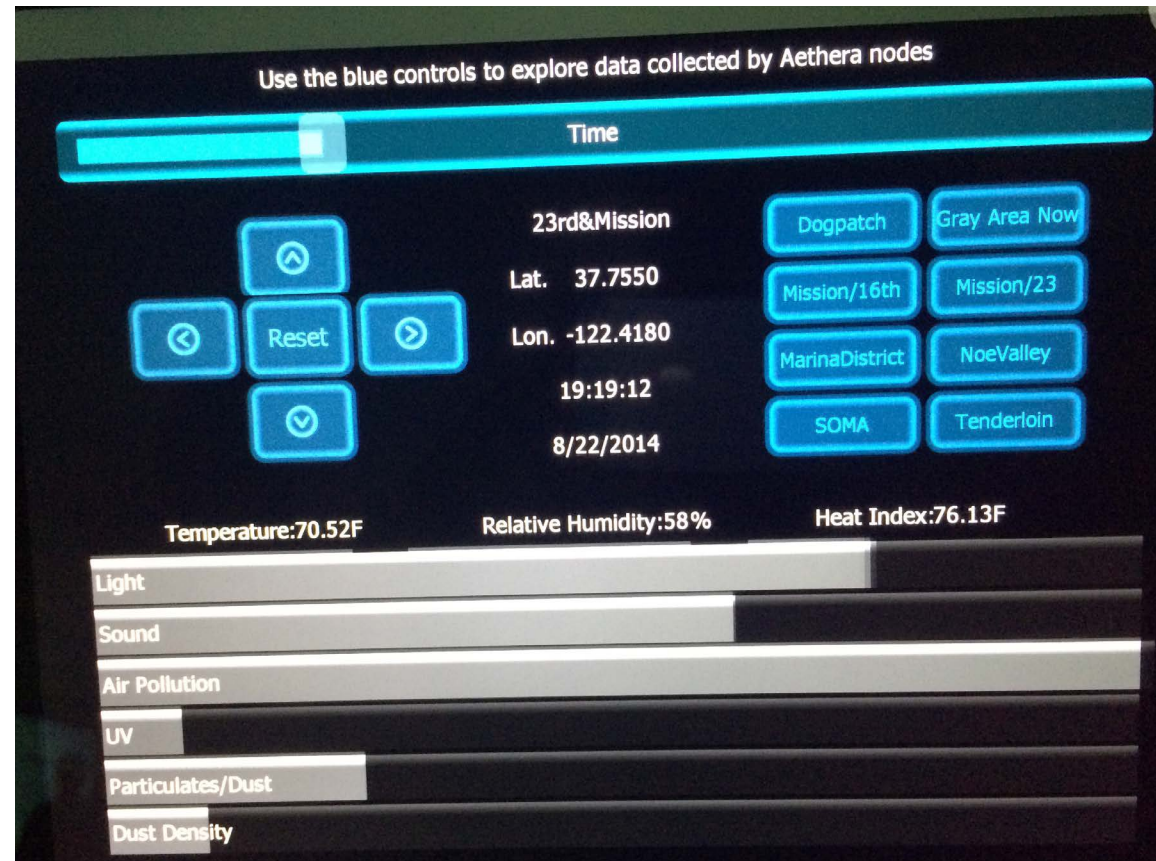
NEEDS WORK

There were quite a few extra buttons that didn't give any immediate feedback and were difficult to understand the purpose of.

"Reset" button gave no feedback and seemed to not be working. Additionally, there were unmarked arrows surrounding the "reset" button and it was unclear what these arrows were for as well, as they didn't give any immediate feedback in the data display in the iPad UI or in the 3D model.

It was also difficult to understand what the data visualization bars on the iPad UI meant in terms of actual measurement. One could gather the relativity of one environmental factor versus another, but there was no information on what a full bar actually meant in terms of quantity as a basis.

EXAMPLE



THANK YOU!