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Design Document

Interaction Design

2/13/20

Assignment: Code self portrait in P5.js. For this assignment We had to use keyboard interactions with a state machine, to create changed in emotions for our self portraits.

The emotions/states that I choose were as follows:

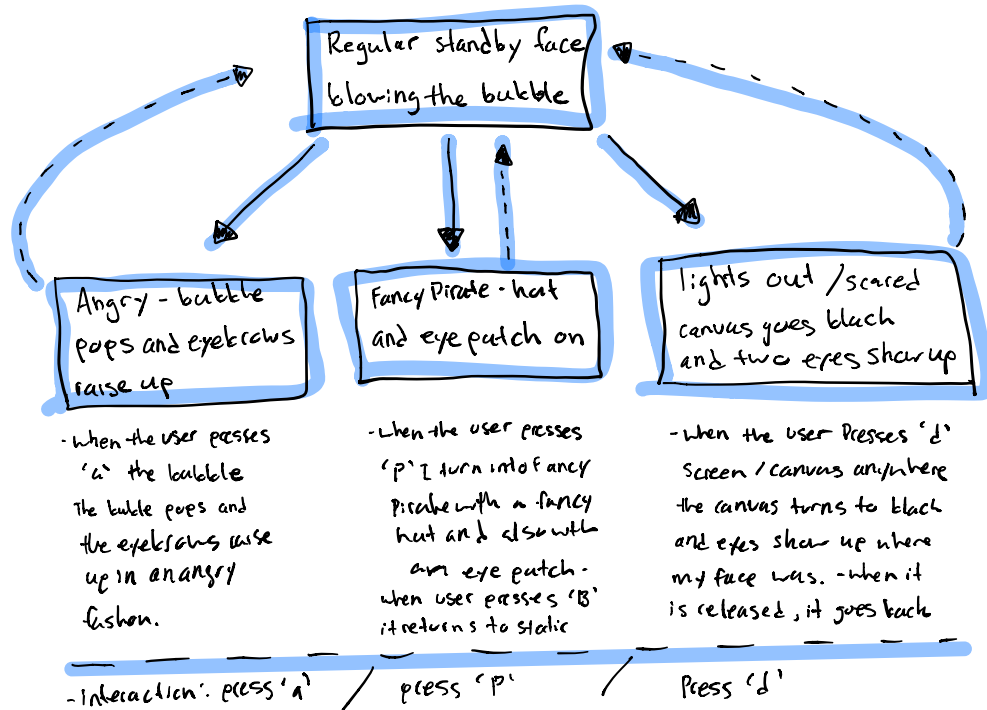
1. Static state, where I am blowing a bubble
2. State one, where I am angry that my bubble popped
3. State three, where I transform into a fancy pirate with an eyepatch and a hat
4. State four, where the screen goes dark and just my eyes appear.

Audience: This assignments attended audience is similar to my first. I aimed to make this for the teacher, but I can see how this could also be aimed for children to interact with and have fun changing the states of each portrait. The interactions are simple and fun to change through!

Sketch:



Interaction Diagram: For this assignment, I created a state machine:



Conveying technical information: For this assignment I have created a cartoon like self portrait only using ellipses, modified rectangle shapes, and arcs in processing that also changes states based on what the user inputs into the computer. I have also included using variables for my colors that utilize hex codes. I commented my code so one may see the specifics and also how my face and my different emotions and states were constructed.

Data Design: I used variables, function, a boolean, state machine, conditionals, a for loop, and hex codes for my colors

Architecture Design: I made sure to comment my code well and make sure the flow of the code was legible and logical as possible

Procedural Design: The code runs well and it produces a self portrait with different states

Reflections: I found this project to be much more fun then the regular self portrait. I found it more satisfying to implement more user input and interaction within the piece. I also really enjoyed learning how the use the state machine. I found it to be a challenge at first, because not was a new concept for me, but in the end I understand its use and functionality more in regards to a more clear, legible and functional way of coding.