

Completion of project:



Link:

https://drive.google.com/file/d/1J_-qSXnMfy-CPxhCljNYn15l7VeoyJLf/view?usp=sharing

Videos of Process:

(Sincerely apologies that I did not record enough for this project)

https://drive.google.com/file/d/14_7gOoalLua8JhsBxvzgXBnMDErS8Xet/view?usp=sharing

Code:

```
// Using the onboard sound sensor, light NeoPixels in response to ambient noise
#include <Adafruit_CircuitPlayground.h>
// react only to sound levels above this value
// this is a starting value that will be updated during calibration
int baseSoundLevel = 65;
// parameter for tuning how sensitive the lights are to sound
float soundSensitivity = 4.0;
void setup() {
  Serial.begin(9600); // this will let us print to the "Serial monitor"
  CircuitPlayground.begin(); // initialize the board
}
void loop()
{
  float sensedSound = CircuitPlayground.mic.soundPressureLevel(10);
  Serial.print("Sound sensor: ");
  Serial.println(sensedSound);
  delay(10);
}
```

```
for ( int i = 0; i < 10; i++ )
{
  if( sensedSound > baseSoundLevel + i*i/soundSensitivity )
    CircuitPlayground.setPixelColor(i, CircuitPlayground.colorWheel(25 * i));
  else
    CircuitPlayground.setPixelColor(i,0,0,0);
}
}
```

Reflection:

- 1) Woodworking learning is so fun and it surely adds more interest for me to make my project with more flexibility and choices. Fimble Lab seems to foster a strong sense of belonging right from the get-go during their instructional sessions. I still clearly remember I was taking really slow at sawing the wood not only because it's dangerous, but also because I was kinda unskillful. But once I got the gist of it, it's getting better and I could focus more on wood choice and what design that I'm actually gonna create. They also start by creating a welcoming atmosphere that's both clear and well-organized. This initial approach likely sets a tone of inclusivity and comfort, making you feel valued and supported from the start. Therefore, this sense of belonging is reinforced when you transition to working on your own project. All the students and staff working there are always so friendly and willing to help. Feeling more inclined to ask questions and seek help indicates a level of trust and confidence in the environment they've created.
- 2) The messages conveyed by the environment played a pivotal role in shaping the sense of belonging experienced at Fimble Lab. The welcoming nature of the instructional sessions sent a clear message that everyone's participation and presence mattered. The environment likely communicated openness, encouragement, and a lack of judgment, fostering a culture where seeking assistance was seen as a natural and positive part of the learning process.
- 3) I did. I'd tell my former self not to be deterred by the fear of taking Game Theory. While it's true that Game Theory involves some mathematical concepts, the

emphasis might not necessarily be solely on complex calculations.

Understanding the principles and logic behind the theories often matters more than intricate math skills. Considering the welcoming and supportive environment at that class, it's probable that the instructors and resources available would assist in breaking down the mathematical aspects, making them more digestible. Additionally, seeking help or asking questions is encouraged, indicating that support would likely be available for those struggling with the mathematical components.