# Exercise 8: Reflection

The first thought that popped into my head while writing this reflection was, "Wow. This was fun." I still cannot grasp how much I learned since making my little green alien in Exercise 1. It was such a delight to encounter something new in JavaScript each week. My favorite aspect of programming is applying knowledge learnt into creating something from a figment of my imagination. The feeling of satisfaction that is accompanied by that accomplishment makes all the bugs and issues along the way worth it. Something I also love about programming is that I can use math in it. I really missed applying math in school.

The most challenging elements I encountered were the p5.sound library and chains of inheritance. For the p5.sound library, I found it strange to implement the oscillator since the sound it produces was not something that evoked a peaceful atmosphere (at least for my personal preference). Because I did not resonate with that aspect of p5.sound, I found myself being less interested in applying it to my code. For chains of inheritance, I understood the vehicle example that was covered in the tutorials, but when it came time to write the code myself, I stumbled with where to put my methods and "super"s. After practicing using chains of inheritance a lot in Project 2, it started becoming more natural to implement them in my code.

I am super proud of my *Project 1: Hungry Fishy* game. I did a lot of research on my own on arrays and classes and was satisfied when it all worked. I am also proud that when I brought my Project 1 code to Project 2 and separated it into multiple chains of inheritance, my program did not burn down into flames. I was surprised that I got it to work, only encountering small bugs along the way that did not take too long to fix. I derived a lot of happiness from making my code modular and reusable. I also like my rainy frog music simulation (https://sharon-ku.github.io/cart253/exercises/exercise6/). The rain effect turned out better than expected. I created a cute song tune using synthesizers and worked with mic input to call upon lightning and thunder.

I plan on practicing more with JavaScript by creating short games over the winter break. I would like to pursue more courses in programming if the opportunity opens up.

A moment that stood out during the course is when I figured out what functions are for. It's so easy to understand, yet somehow was such a convoluted concept when I learned it in computer class the first time around. It all makes sense now. Yes. Life is good.