

### Exercise: Reflection

During this course, I have transformed the way I see programming, and I was able to experience the creative side of programming for the first time in 4 years since starting to learn programming. I have really enjoyed the creative freedom that this class has given me for all our assigned exercises, and projects. I could apply my knowledge to projects, that I wanted to create myself, and did not have to follow a very rigid structure for my assignments like in my other programming classes. It has made programming a lot more enjoyable for me, and I am very proud of all the things that I have created.

The most challenging element that I encountered was at the beginning of the class: trying to understand p5. I remember spending countless hours on my [first exercise](#) with just three shapes, trying to create a smooth animation, still struggling to understand how p5 works. However, with time, and practice I have improved a lot, and now I understand how p5 works! Of course, there is so much more to learn, but now I am much more comfortable with it than I was at the beginning of class. I also found coding my first project to be very challenging because it was a relatively big project, with a lot of sounds, images, and content, and at some point, I had trouble organizing all this code. It was also a lot more difficult to debug my code in a large-scale project just using print statements. That is why for my second project, I am separating my code into different classes, and using a debugging tool.

As mentioned previously, I am most proud of the first project for this class where I created a [gardening simulator](#). I am proud of myself, and how I was able to re-create that nostalgic 2010s web game look and feel with just a few weeks of practice with p5. I also think that my project was interesting because it included several mini-games including a radio mini-game, a planting game, and a game with the dog here you can feed the dog or throw the dog a ball.

Since I am a Computer Science, and Computation Arts student, I will continue programming in the future. While I cannot always be as creative in my coding as I was for this class, because of the imposed constraints of my job, and programming classes (especially Computer Science classes), I want to start programming for my enjoyment. I want to make programming more creative for myself. I really wish for front-end programming to become my full-time job in the future, and maybe even explore some UX design. However, I know for sure that exploring programming on my own creatively would be highly beneficial to finding my interests.