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COMP 313: Computer Graphics

Fall 2022

Instructor: Professor Sheldon Schiffer (pronouns he/him/his)

Project 1 Reflection Worksheet

Answer the following questions in the box below.

1. Describe and list the skills that you and concepts that you had to master to complete this project.

I had to use many of the concepts we learned in class such as plotting, creating arcs, filling, making the grid, etc. I also had to get comfortable writing in python because I was used to Java before this course.

2. Describe the design concept that guided your group.

For the design we decided to draw inspiration from a San Francisco street car.



We followed a similar color scheme and decided to make the top of the car white.

3. Describe the design concept that guided your just your work and the segment you coded.

My order of completing the project was creating an outline of my entire section. With black lines to copy the base illustration. I started with the entire rectangle to give myself bounds. Then I decided to do all the straight lines excluding the windows because they seemed more difficult. Then completing the windows with curves at the bottom. Finally, adding all the color and filling specific portions. The order I call the functions was having the colors first so the lines would then go on top of the fills.

4. Describe the challenges and solutions you experienced individually for this project.

For me, creating arcs was pretty difficult. There was a lot of time spent figuring out the starting and ending angles I needed to create the correct arc for the curves in the window. I would say I learned more but still a little shaky on it. I also experienced trouble creating a circle to fill the curve for the bottom of the windows. I ended up googling a solution that is shown on line 154 of the trainBody.py file. In short I created a circle and filled in that circle. I had to find this solution because I thought scatter would work but the size was not consistent between different screens or even shrinking the window.

5. Describe the challenges and solutions of your group collaboration.

The main challenge was making sure all of our parts fit together and were the same size. You can see at the beginning of the trainBody.py file was a bunch of variables that had a comment that said "used to be" because basically had to translate the points to fit. That was the main problem and we solved it by changing our points manually.

6. Elaborate on this statement in detail and comment on its truthfulness: "This project satisfied my interests and expectations as an introductory Computer Graphics project for 2D." Talk about how the project did or did not satisfy your expectations.

It did satisfy my expectations as an introductory Computer graphics course project because I had to draw upon all the different things we learned to create lines, shapes, etc. As much as I learned, I also want to learn more because 2D graphics can be very

huge as I can see with animations and details.