

Juichi Lee

Mike Bailey

CS 457

2/23/2021

Project6: Cat Menagerie

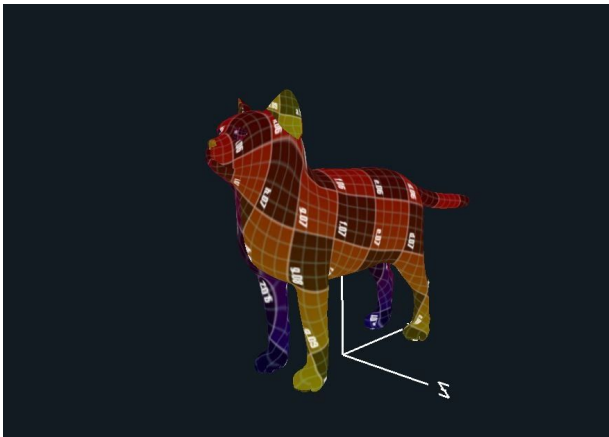
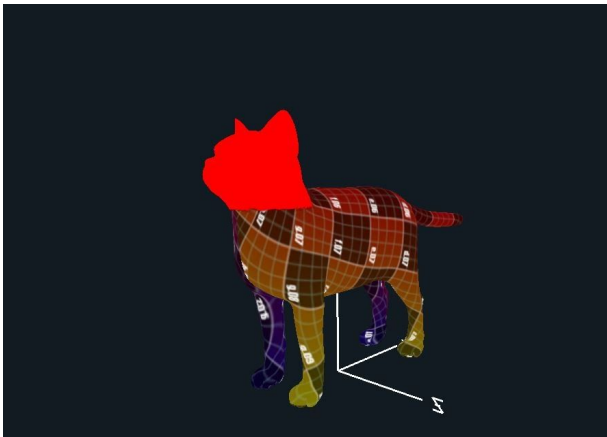
Email: leejuic@oregonstate.edu

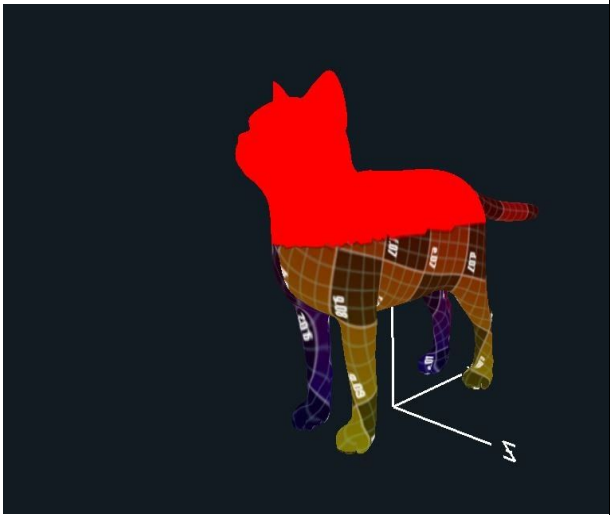
Link to Demonstration Video(Youtube): <https://youtu.be/mesVr6NWdn8>

Explanation:

As the precursor to my final project, I constructed a 3D magic lens in the form of a cube. I did this by assigning a center point and adding other variables to the cube that determined its transformation and scale. In the vertex shader, I checked if a given vertex was in the cube's bounds and applied modifications to it if it was. These modifications included offsetting its transformations, changing its scale, and changing its color. The program gives the user the freedom to change whatever they like on the cat.

Images:

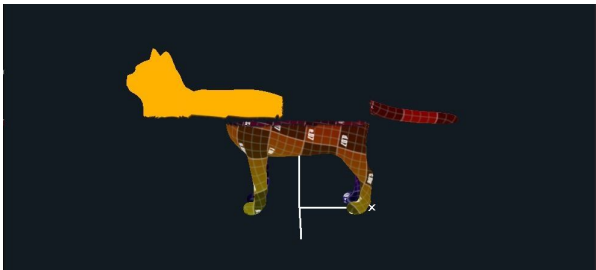
Regular	Moving the Magic Cube
	
Scaling the Magic Cube	Locking the Magic Cube



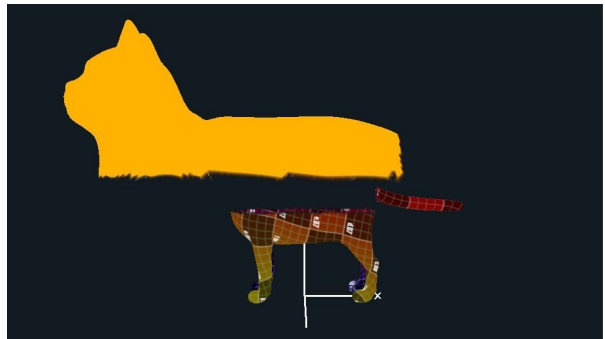
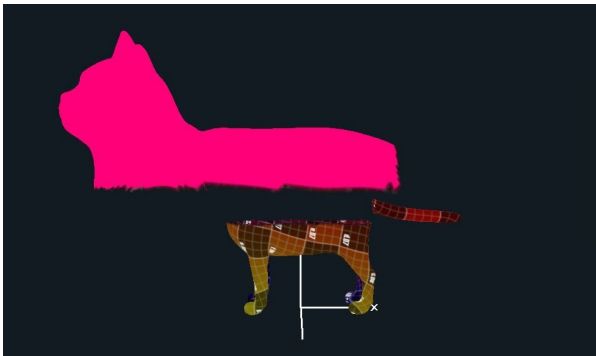
Moving the Selection



Scaling the Selection



Changing the Color of Selection



Changing the Alpha of Selection

