

CS 405 Project 1

Selim Gül

29200

Fall 2023

Introduction:

In this assignment, we were tasked with utilizing ChatGPT to calculate the ModelView matrix for a cube object and animating it.

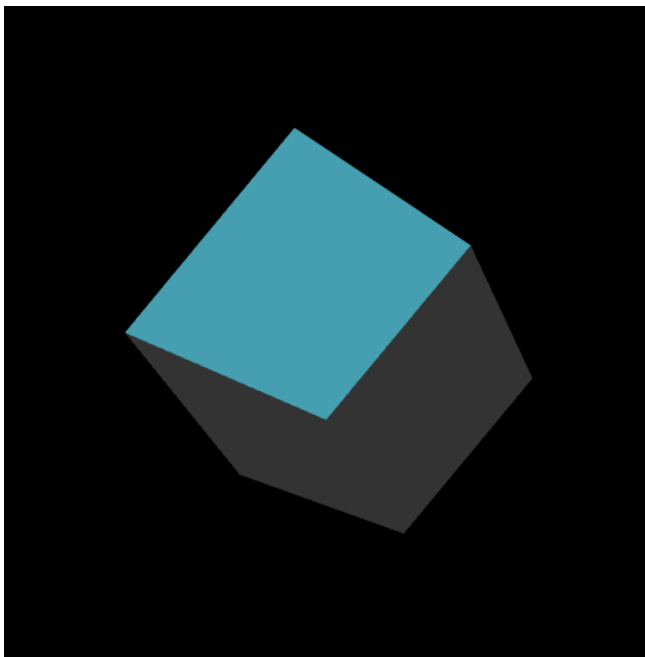
Task 1:

I have asked ChatGPT to apply the given prompts and calculate the final matrix as instructed.

Here is the link to my ChatGPT Chat history:

<https://chat.openai.com/share/01c0059d-3c9a-43b5-ad82-0015e095285d>

The cube looked like the following:



Task 2:

In Task 2, I first created an identity matrix, then scaled it with given parameters, rotated by x, y, and z axes in order, and lastly applied translation with the given instructions (0.3 units in x-axis, -0.25 units in y-axis).

The differences between the resulting matrix in Task 1 can be due to order of the transformations. In task 1, the order is translation, scaling, and rotation. Therefore, ChatGPT probably does the transformation in the given order, not the correct order.

Task 3:

Finally in Task 3, I asked ChatGPT to animate the transformation calculated in Task 2. It takes 5 seconds for the cube to go to its target position, and 5 more seconds to return to its initial position.

