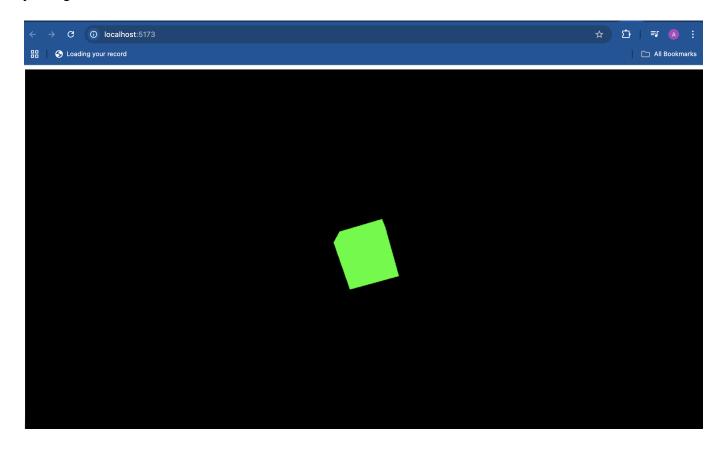
Three JS 3D World README

Intro: I will learn the fundamentals of shapes, lightning, positioning, ect., in three js.

First, to install three js and to get an idea of what the library does, I visited the official three js website. (three.js, n.d.)

There I have installed the files via nodejs & vite, and run my first project on three js that comes just right after the installation.



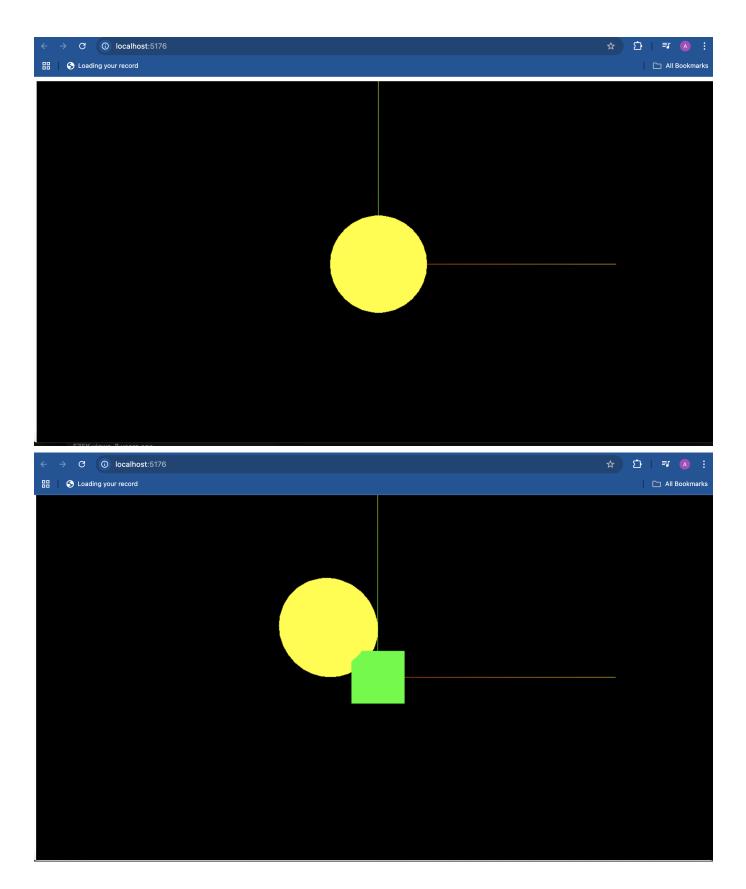
I then also watched the Fireship's tutorial video (Fireship, 2022) where I gathered basic information on how to set up the scene.

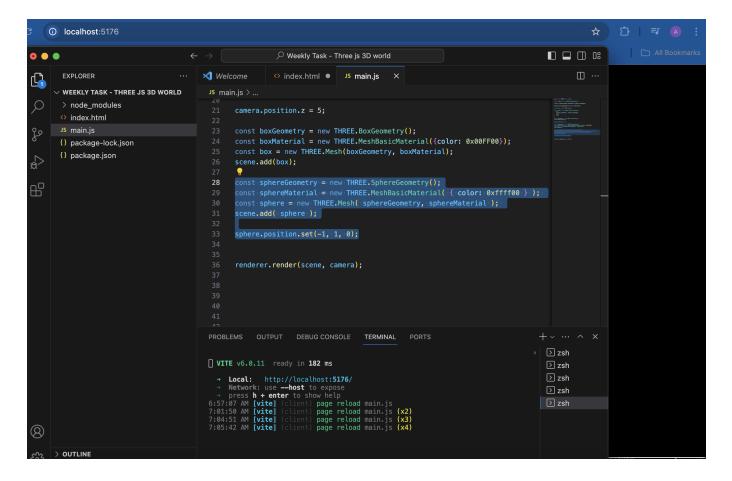
I found this video tutorial (Wael Yasmina) to be especially helpful when constructing my scene, because it is structured in a way that covers most basic configurations of setting up the scene

After I've set up the camera and basic render, I started working on my items a bit.

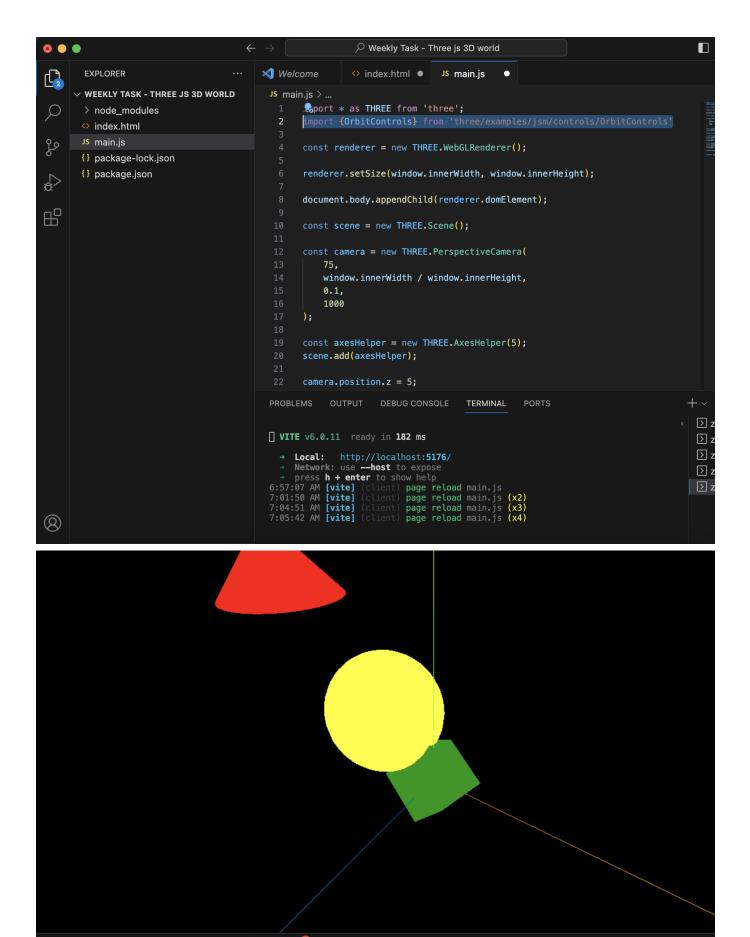
First, I populated some new shapes using pre-defined geometry rules and forms.

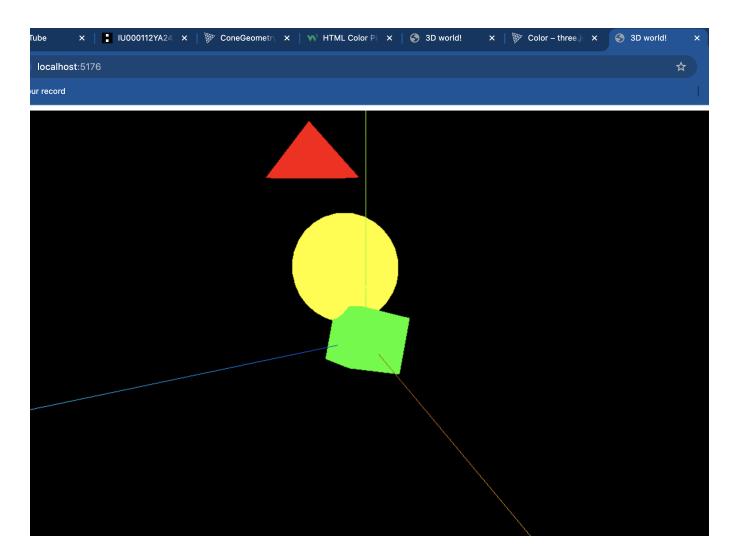
I have also experiemnted with coordinates and placing elements on different axis.



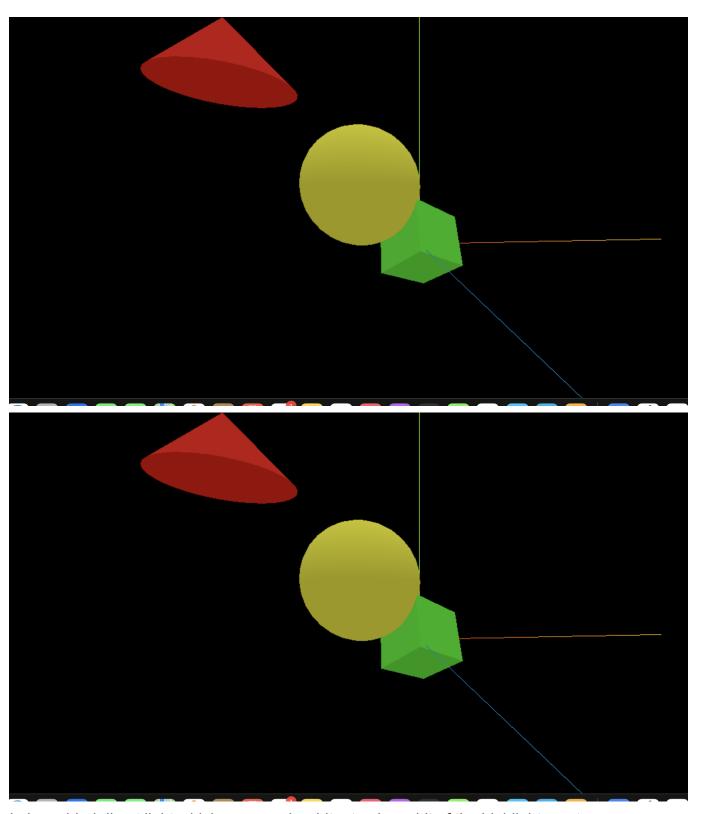


Then after that I decided to import Orbit Controls straight away to be able to chnage and position the camera





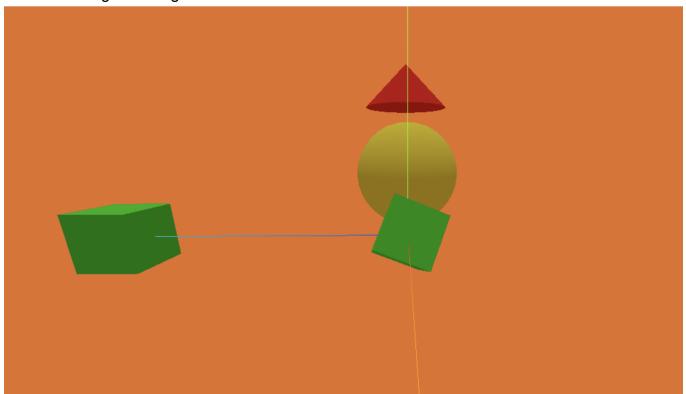
Then I added lights to make shapes a little more 3d and in relation to each other. I had to also swap the materials meshes to Standard instead of Base, which reflects light a little better. I have added ambient lights and set them to grayish colour.



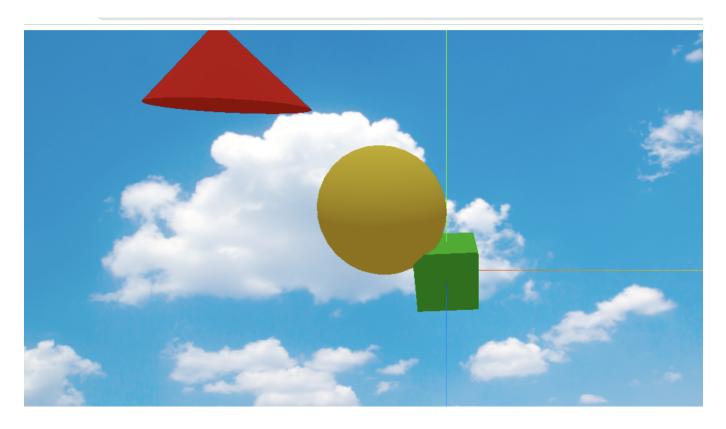
I also added direct light which was purely white, to give a bit of the highlights on top

I played with differnt colors a little and found some that I like.

I tried to change a background color:



And then used loadTexture() to load an image of a cloudy sky and set it as the background



Reference List:

- three.js (n.d.) three.js JavaScript 3D Library Documentation. Available at: https://threejs.org/docs/ (Accessed: 1 February 2025)
- 2. **Fireship (2022)** *Three.js The Journey to 3D JavaScript Mastery*, YouTube video, 16 May. Available at: https://www.youtube.com/watch?v=Q7AOvWpIVHU (Accessed: 1 February 2025)
- 3. Wael Yasmina 2021) Three.js Tutorial For Absolute Beginners, YouTube video, 3 November. Available at: https://www.youtube.com/watch?
 v=xJAfLdUgdc4&t=690s&ab_channel=WaelYasmina (Accessed: 1 February 2025)