Project Proposal

(Name)

The 3D scene I imagined was a scene about the forest, where there will be many trees in the scene and also may have some kinds of animals that will move in the scene. In this scene, there may have some mountains, or lakes in it and the animals may not be more than three. As considering for the easier of the project, the trees may just be simplified and the animals may not be so similar as they are in the real world.

The possible reason of considering doing this is that I’ve just gone to one of the forests when I’m in summer vacation which made a very forceful impression on me. And when I saw the project title, the first scene I come up with is the forest, and that’s why I do this. Also, as the leaves of the trees may be too difficult for me to implement, that’s why I chose to implement ones as a substitution of the real trees which may also be applied to the animals and mountains and lakes, etc.

To achieve my imaginary scene, I did a few days of research. First, I learn about that the OpenGL specification specifies exactly what the result/output of each function should be and how it should perform. It is then up to the developers implementing this specification to come up with a solution of how this function should operate. Since the OpenGL specification does not give us implementation details, the actual developed versions of OpenGL are allowed to have different implementations, as long as their results comply with the specification.Second, because OpenGL is just a specification, I should have a library that implement the specification. After the research, I decide to use the GLFW library. The library is written in C, specifically targeted at OpenGL providing the bare necessities required for rendering goodies to the screen. Third, because OpenGL is just a specification, it is also necessary to retrieve the location of the function I need and store them in function pointer for later use. I choose GLAD. GLAD is an open source library that can help us to manage functions.

I haven’t done anything of this project yet, just write that may be helpful for this and I’m planning finish the trees within a week and finish the rest of the project in the following two to three weeks. There may still have some change in the project as I haven’t fully recognized of the difficulties of implement these kinds of forest and I will try my best of finishing it.