A4 Full Solar System Report

2016312160 이준성

1. Make and animate dwarf planets of each planet.

First, I made moon rotating around Earth, and four dwarf planets around Jupiter and Uranus

2. Apply a point light on Sun.

By using Blinn-Phong model, make the point vec3(0,0,0) as point light. By setting light position as vec4(0,0,0,1) it becomes point light which is the center of Sun. And make Sun not affected by light, so there is no shade on Sun.

3. Apply texture of planets.

Using texture downloaded from link, first save on GLuint texture variables and apply them to frag shader.

4. Make a textured ring system of the Saturn.

Make a ring by ring-vertex of circle and apply texture of the ring.

5. Apply alpha blending.

Setting glBlend as Enable and apply alpha values from the alpha texture it becomes blending. First save alpha texture to frag shader and make fragcolor.a = alpha.r.