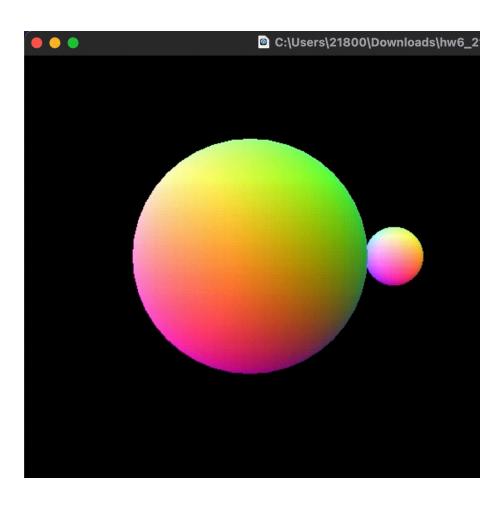


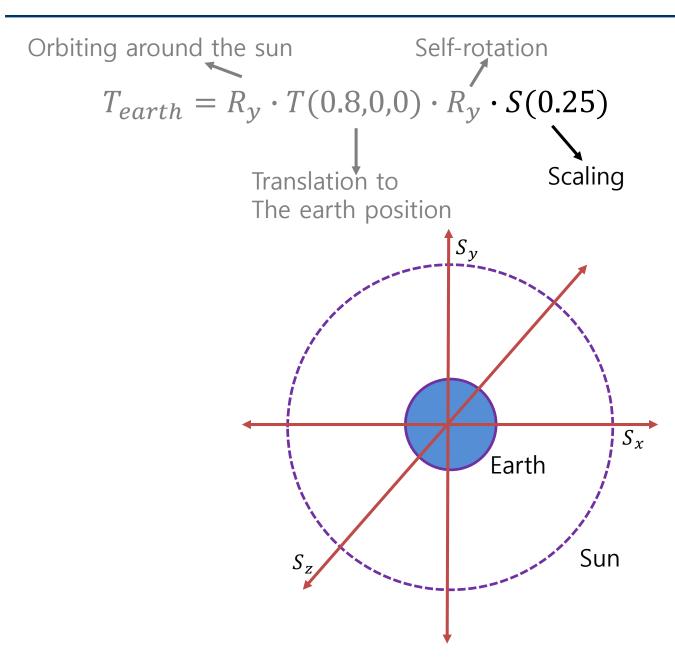
Computer Graphics Orbital revolution



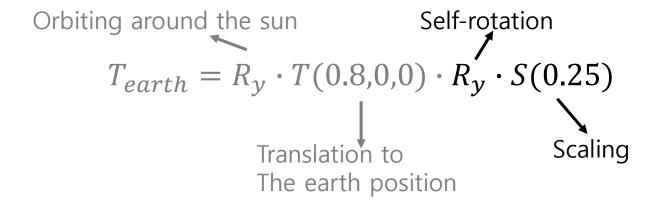
 Use the spheres of "primi.h" to implement the orbital revolution.

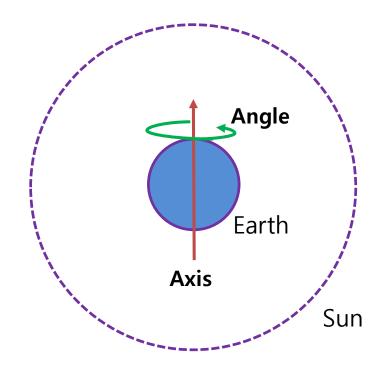




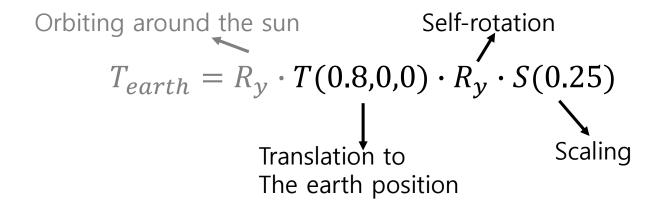


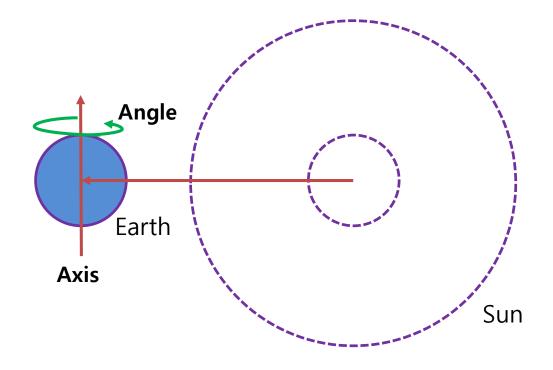




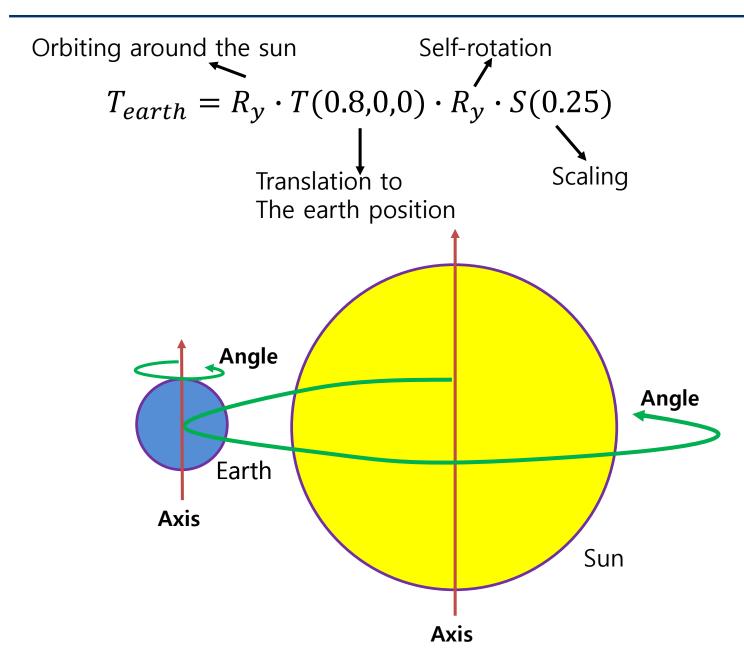














How to implement in OpenGL code.

Ex. GLfloat theta = 0.001f * clock();

```
mat4 T_earth(1.0f);
T_earth = rotate(T_earth, theta, vec3(0.0f, 1.0f, 0.0f));
T_earth = translate(T_earth, vec3(0.8f, 0.0f, 0.0f));
T_earth = rotate(T_earth, theta, vec3(0.0f, 1.0f, 0.0f));
T_earth = scale(T_earth, vec3(0.25f));
```

Orbiting around the sun Self-rotation
$$T_{earth} = R_y \cdot T(0.8,0,0) \cdot R_y \cdot S(0.1)$$
 Translation to Scaling The earth position