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Title: Project C: Spherical Shading Symposium

User's Guide:

Goal

My goal for this project was to correctly implement Gouraud Shading and Phong Shading, each with Phong lighting or Blinn-Phong lighting making 4 possible combinations. The idea was to have a slowly rotating sphere in the center of the world to showcase the lighting, have a ground grid and camera movement as with Project B, and comprehensive user controls for the light.

I was initially going to have the 3 jointed assemblies and phong materials, but if my grade calculations are correct I do not need those parts to get an A in the class and those were challenging so I decided not to implement them. I will of course take 0% on those two parts of the project, but I did do the shape distortion extra credit with the ground grid because it felt rather bare otherwise.

Instructions

- Use the arrow keys to rotate the direction you are facing in the world.
- Use w/a/s/d to move in the world.
- Select the shading and lighting method of your choice from the drop down menus.
- Input the XYZ coordinates of the light along with RGB values for diffuse, ambient, and specular light in the text boxes.
- Click the buttons to turn the aforementioned types of light on or off.
- Slide the slider left and right to alter the specular shininess of the sphere.

Results:

<u>Pictures</u>

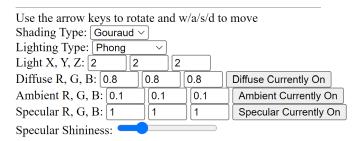
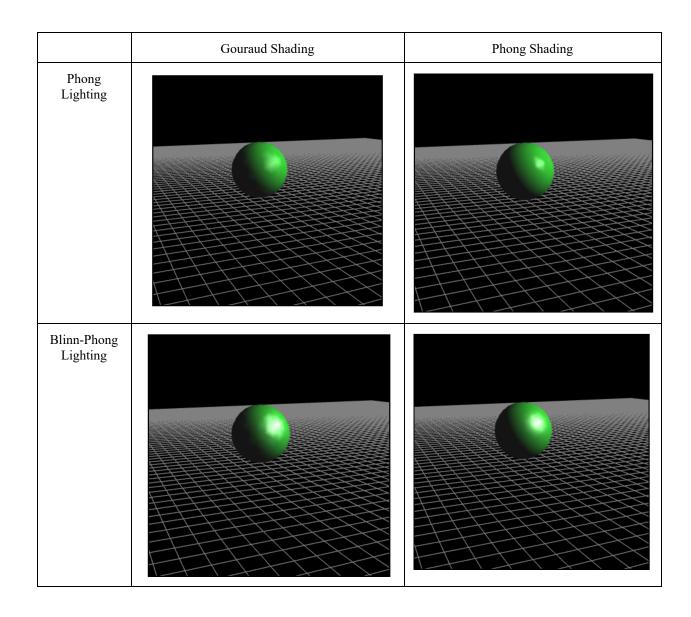


Figure 1: Instructions



Scene Graph

