The Dolphin model and the Torus model both cast a shadow on Dr. Gordon's Bread If you move the spotlight to the lower left and fiddle with the Mouse Wheel you can cast a shadow of the triangle on the bread as well if you so choose. There are many shadows, and all models are made of different materials. The spotlight has a control for an On/Off toggle as do the Axes. I have implemented Soft Shadow techniques, using PCF. The camera has been fixed since the last assignment. //From the book// Torus, Pyramid, Dolphin //Downloaded from TurboSquid// //Royalty-Free License// https://www.turbosquid.com/FullPreview/Index.cfm/ID/1259409 What I like to call Dr. Gordon's Bread filename: 'bread.obj' //From the book// Silver - Dolphin Model Bronze - Dr. Gordon's Bread Model - looks like a perfect bread texture Jade - Torus Model Pearl - Pyramid Model Jade and Pearl are from Figure 7.3 on page 167 'w' - forward 'a' - left

's' - backward

```
'd' - right
'q' - up
'e' - down
'down arrow key' - pan down
'up arrow key' - pan up
'left arrow key' - pitch left
'right arrow key' - pitch right
'x' - reset Camera position
'y' - toggle XYZ-Axis On/Off
X-Axis(Red), Y-Axis(Green), Z-Axis(Blue)
'i' - forward
'j' - left
'k' - backward
'l' - right
'u' - up
'o' - down
'n' - toggle SpotLight On/Off
'm' - reset Light Position
Mouse Drag to change the x-axis and y-axis position of the light
Note: the Mouse Drag has some bugs but it works well enough.
Mouse Wheel scroll to change the z-axis position of the light
******Note: ********
```

Please maximize the screen to make the Mouse Drag work the best. I had to do some funky calculations to get it working properly enough. It does not follow the mouse perfectly

but it is close, please be kind.

## Screenshot:



Tested and Works on Hydra.