

Based on the book "Ray-tracking in one weekend" after I have completed the code I started to change the spheres. Originally I wanted to change the shape of the sphere to make it look like an egg shape. However, after messing around with the code I was unable to change the shape without causing any errors in the code. So I opted for a different way. In my zip file there will be 3 folders that have my code, Final, Final\_dif, and Final\_dif2. In the folder "Final" is the original code from the book. In the folder " Final\_dif" folder I made a swirl class that should add a swirl to the texture of the sphere but it looks like it only changed the color mix of the spheres. In the "Final\_dif2" folder I made the ground green, sky pitch black, shrunk the small spheres from the original image to pea size and made it bright yellow to make it look like "fire-flies", and finally If you look closely on one of the reflective sphere I you can see that I added many tiny stars and a moon. However, you can't see that in the image is because the size of the image is not big enough to capture all the shapes that I have added.