## Assignment # 2, CSCI 480 Fall 2015

Due date: Friday, Oct 30, midnight.

• Finish the ray tracer provided on the website in the folder raytracer\_minimal. There are several sections of code marked with "pass" so that they will still compile, but do nothing. Finish each of these as illustrated in the lecture notes:

camera: lookAt
light: PointLight

material: Image, Reflector

shape: Plane, PlaneIntersection, Cube, QuadricOfMyChoice

world: MyWorld

- You should implement a single quadric of your choice, but not the ellipsoid. You do *not* have to implement rotation for this quadric, but you should be able to move it to random locations.
- You should implement a MyWorld class that illustrates all of the features you implemented.
- Write modular, well-documented code.
- Create some fascinating images. Use your noise function, or some images from it, as procedural or image textures.
- Create a main.py file, which, when run, will open a pygame window and create your most interesting image. This will save me time grading and trying to figure out the parameters I need to call your function, etc.
- Zip your code and best images together (don't use tar or anything else—I will be writing scripts to unzip and then run main.py) and submit to Canvas by the due date.