A3—Texture Mapping

Due: Saturday October 6 at 7am

- 1. Expand your rendering engine with the following features:
 - a. Model space rasterization parameter interpolation
 - b. Texture mapping with tiling and with bilinear interpolation lookup
- 2. Create a texture mapped scene with at least 5 texture quads
 - a. At least one texture should be acquired by you with a camera
 - b. At least one texture should be tiled
 - c. At least one texture should be downloaded from the web
 - d. At least one texture should capture complex lighting
 - e. At least one texture should capture a reflection
- 3. Render a 10s 30Hz 720p video sequence illustrating your scene.
- 4. Extra credit 3%: Lighting
 - a. Ambient, diffuse, and specular per pixel lighting
- 5. Extra credit 3%: Mipmapping
 - a. Texture LoD should be adapted to screen
- 6. Extra credit 3%: Sprites
 - a. Support textures with transparent texels
- 7. Turn in via blackboard one zip archive that contains
 - a. Source code
 - b. Executable
 - c. Video file

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