

1 Launch a webserver

You can launch a webserver from this directory with `python -m SimpleHTTPServer` and then navigating to `localhost:8000`

2 Editing the handout code

All the code you will edit is in `app.js`
Right now it simply loads images `brick.png` and `bump.png`, makes a rectangle, and then draws `brick.png` on the rectangle.

3 Your Job

- load the `bump.png` image into the fragment shader
- load a uniform which resembles the point light into the fragment shader
- calculate the color based on the bump map value (rgba) for that pixel and the light position

4 Bonus

- let interactivity change the position of the light
- (see <http://www.cs.tufts.edu/comp/175/shaderdemo/index.html> for interactivity)
- "green screen" the texture with another texture, by replacing the pixels colored like the grout with colors from `psychedelic.png`

5 Resources

- <https://webglfundamentals.org/webgl/lessons/webgl-fundamentals.html>
- <https://webglfundamentals.org/webgl/lessons/webgl-shaders-and-glsl.html>
- <https://webglfundamentals.org/webgl/lessons/webgl-3d-textures.html>
- <https://webglfundamentals.org/webgl/lessons/webgl-data-textures.html>