Lecture 15

Announcements

- Project advice from Prof. Friedman:
 - Don't be the teammate who takes over too much
 - After the quarter is over, your term project can help at interviews

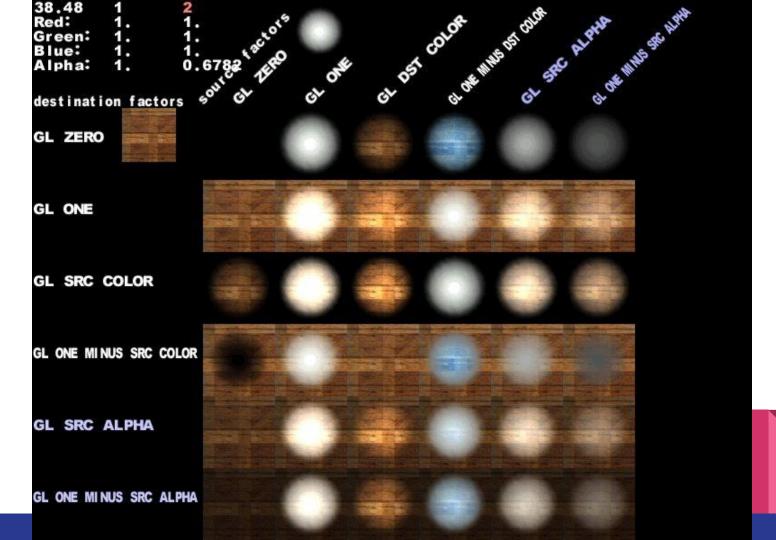
- Parametric surfaces demo is posted
 - An "active textbook"

Topics we've missed:

- Spring/damper systems using edges
 - I'll post a slide set on that for completeness
- Transparency and blending
 - Keys to success:
 - Drawing transparent objects last
 - Turning depth testing off and back on const gl = context.context; gl.disable(gl.DEPTH_TEST);

Blending

- Choose what to do when a transparent triangle (the "source") hits the z buffer ("the destination"):
 gl.blendFunc(source factor, destination factor)
- List of all possible functions:
 - https://developer.mozilla.org/en-US/docs/Web/API/WebGL RenderingContext/blendFunc



Blending and other examples

- As a three.js interactive example:
 - https://threeis.org/examples/webgl materials blending custom.html
 - Other good examples on there while we're at it:
 - marchingcubes, translucency, water / flowmap, lod, nearestneighbour, youtube, orientation / transform (quaternion math), reflectivity, manualmipmap, multiple elements, shadowmap viewer

Outside slide set: Spring/Damper systems

Outside slide set: Spline curves

Outside slide set: Surface patches