





 This assignment has a slightly different flavor from the previous two

- This is mostly classical OpenGL material. Simple and lots of sample code available on the Web (some pointers next slide). Please do look at this code, but implement it yourself so that you really understand what's going on
- Grading will focus on whether you understand the parts you implemented

Lighting and Shading odds and ends

- Phong shading vs. Gouraud shading
 - Gouraud == per-vertex normals and illumination. Interpolate vertex colors to fragments
 - Phong == Interpolate vertex normals, per-fragment illumination
- Phong reflection vs. Phong shading
 - P. reflection == an approximation of BRDF, into specular + diffuse + ambient + ...
- Global illumination and ambient
 - Ambient term is a crude approximation of global illumination

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- Switch to pen for
 - Blinn-Phong reflection and the halfway vector
 - Toon shading





8 Toom Shader a.K.a. Cel Shading

The qualitetive features of Contrans

(1) Small polette of colors

Take diffuse color, and quantize it





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Quiz 2 Preparation

- In class, Wednesday March 4 1-1:50. Please be on time.
- Review lecture notes, and assignments.
- Everything covered in lecture could be on the exam
- Everything covered in listed textbook chapters could be on the exam
- Doing first part of Assignment 3 will be helpful

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