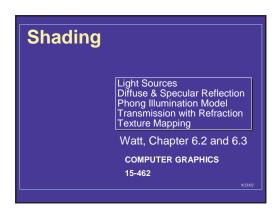
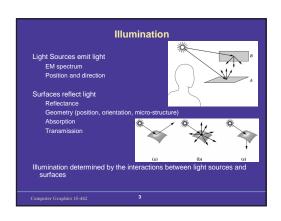
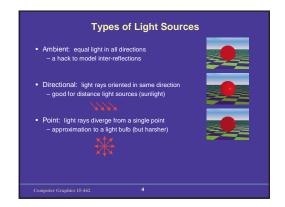
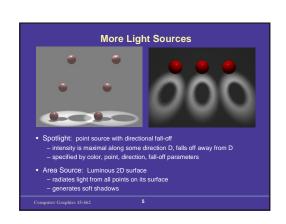
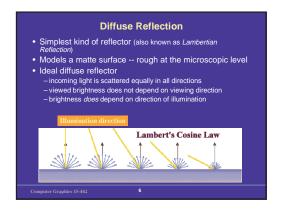
Announcements Assignment 2 due on Friday Written Assignment 2 out later today. Midterm next Thursday—or we could move it to 10/24 or 10/31?

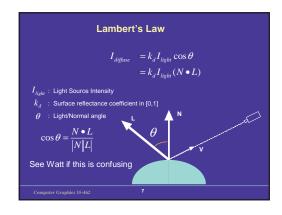


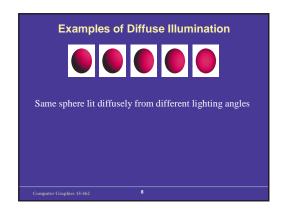


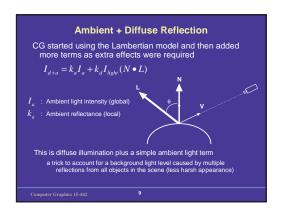


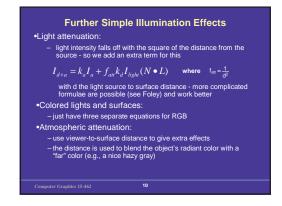




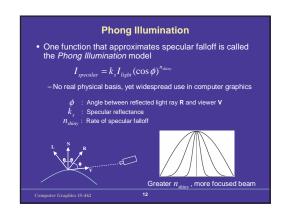


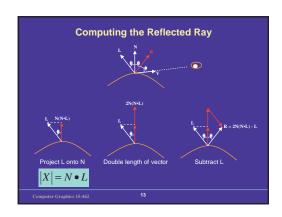


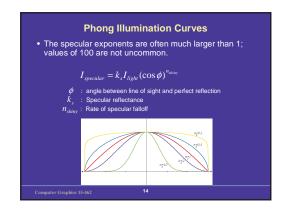


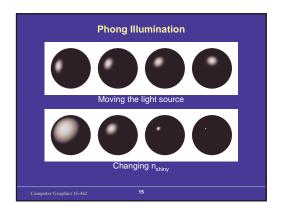


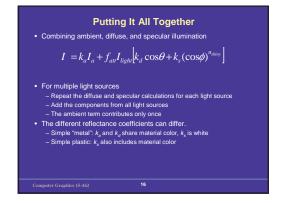


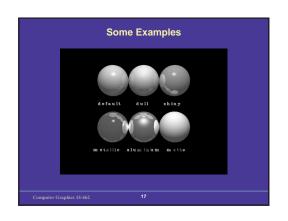






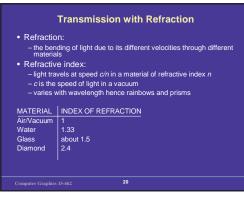


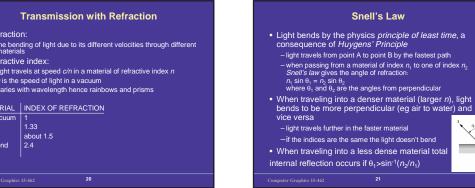


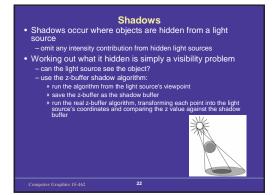


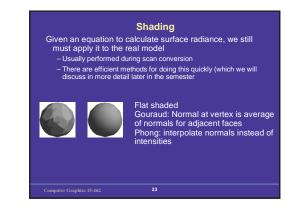


OpenGL Lighting GLfloat light0_position[] = $\{1., 1., 5., 0.\}$; /* directional light (w=0) */ glLightfv(GL LIGHT0, GL POSITION, light0 position); glLightfv(GL LIGHT0, GL DIFFUSE, white); glLightfv(GL_LIGHT0, GL_SPECULAR, white); glEnable(GL LIGHT0); glEnable(GL_NORMALIZE); /* normalize normal vectors */ glLightModeli(GL_LIGHT_MODEL_TWO_SIDE, GL_TRUE); /* two-sided lighting*/ glEnable(GL_LIGHTING):









Uniformly shaded surfaces are still unrealistic Real objects have surface features, or texture One option: use a huge number of polygons with appropriate surface coloring and reflectance characteristics Texture mapping gets you further - Assign radiance based on an image Even better: use Procedural shaders to specify any function you want to define radiance - The possibilities are endless... - Generate radiance on the fly, during shading Key ingredient of high-end rendering systems Pixar's Renderman (used for "Toy Story", "Bug's Life", etc.)

