Illumination Models















Illumination Models













Illumination Models













Illumination Models

In OpenGL

sity of

- k_a, k_d, k_s surface color (RGB)
- Modify by glMaterialfv(GL_FRONT_AND_BACK, pname, RGB[])
- pname GL_AMBIENT, GL_DIFFUSE, GL_SPECULAR
- Light source properties (also RGB) glLightfv(GL_LIGHTi,pname,light[])

Lighting in OpenGL

glLightfv(GL_LIGHT0, GL_AMBIENT, amb_light_rgba); glLightfv(GL_LIGHT0, GL_DIFFUSE, dif_light_rgba); glLightfv(GL_LIGHT0, GL_SPECULAR, spec_light_rgba); glLightfv(GL_LIGHT0, GL_POSITION, position); glEnable(GL_LIGHT0);

glMaterialfv(GL_FRONT, GL_AMBIENT, ambient_rgba); glMaterialfv(GL_FRONT, GL_DIFFUSE, diffuse_rgba); glMaterialfv(GL_FRONT, GL_SPECULAR, specular_rgba); glMaterialfv(GL_FRONT, GL_SHININESS, n); university of









Illumination Models













Copyright 2004, Alla Sheffer, UBC