

CS 423 Computer Graphics
Assignment #1 Handout
Due: Sunday, March 2, 2025 @ 11:00pm.

Synthetic Lighting for Photography

Interesting manipulations can now be done...

- Subtract ambient to find contribution of each light source
- Change color of lights
- Negative lights!

$$I_t = wI_a + (1-w)I_b$$

For example, if w is varied at intervals of 0.1, then the sequence of 10 images is

$$I_{t01} = 0.0 * I_a + 1.0 * I_b$$

$$I_{t02} = 0.1 * I_a + 0.9 * I_b$$

...

$$I_{t10} = 1.0 * I_a + 0.0 * I_b$$