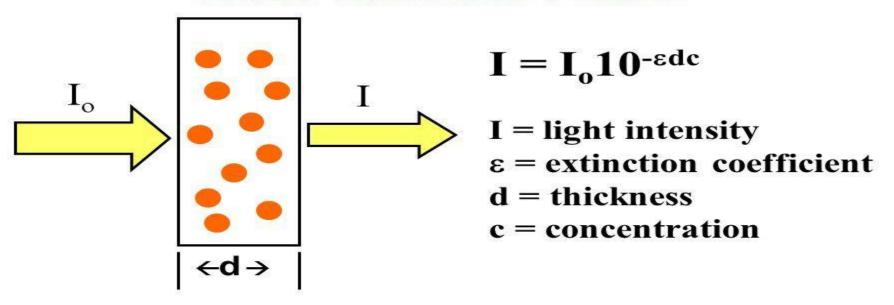
Lambert - Beer Law: brief overview

## In a nutshell:

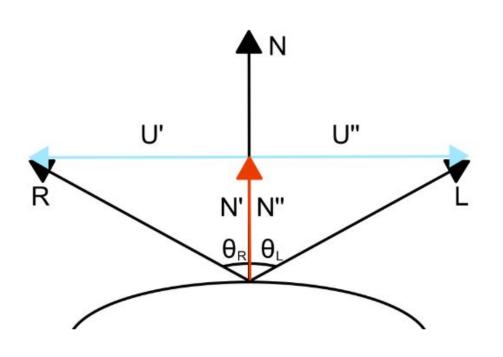
How much light goes out when it touches a surface or object

## **Beer-Lambert Law**



Absorption (A) =  $-\log(I/I_0) = \epsilon dc$ 

## PHONG MODEL



$$\Theta_{R} = \Theta_{L}$$

$$\hat{R} \cdot \hat{N} = \hat{L} \cdot \hat{N}$$

$$\hat{U}' = -\hat{U}''$$

$$\hat{U}' = \hat{R} - \hat{N}' = \hat{R} - (\hat{R} \cdot \hat{N})\hat{N}$$

$$\hat{U}'' = \hat{L} - \hat{N}'' = \hat{L} - (\hat{L} \cdot \hat{N})\hat{N}$$

$$\hat{R} - (\hat{R} \cdot \hat{N})\hat{N} = -(\hat{L} - (\hat{L} \cdot \hat{N})\hat{N})$$

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$$\hat{R} = (\hat{L} \cdot \hat{N})\hat{N} - (\hat{L} - (\hat{L} \cdot \hat{N})\hat{N})$$

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