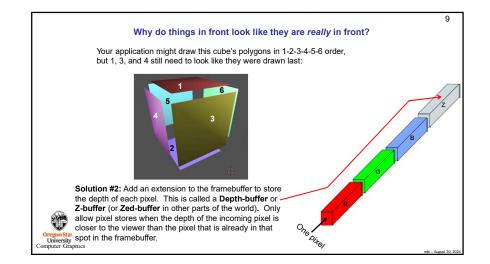
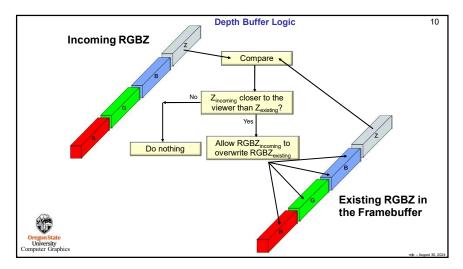
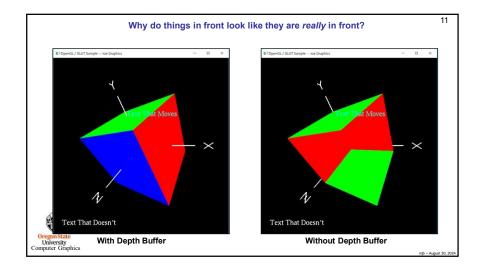
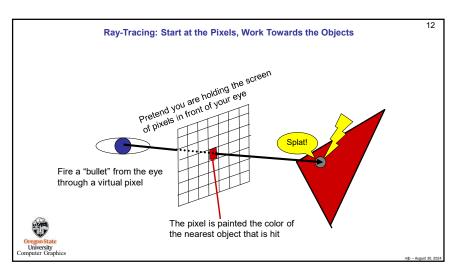


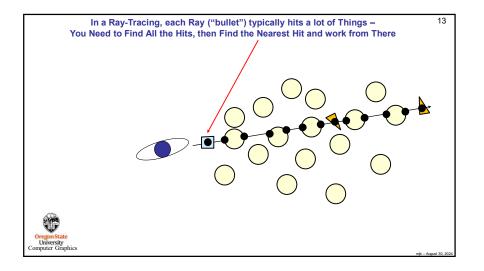
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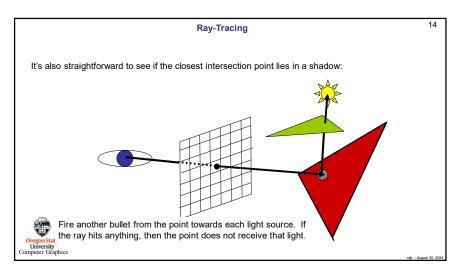


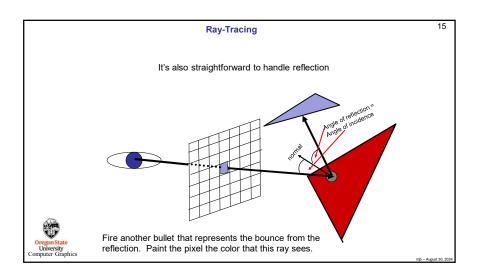


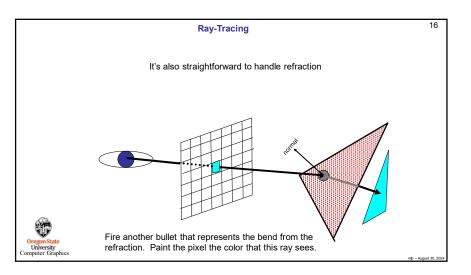


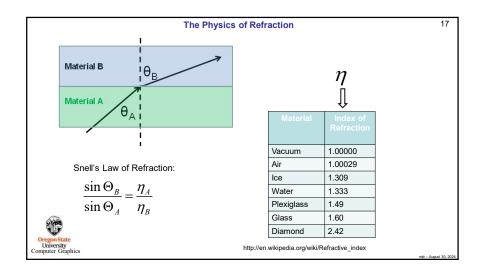


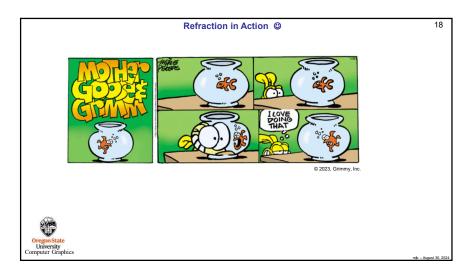


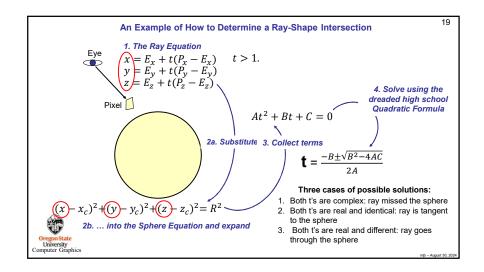


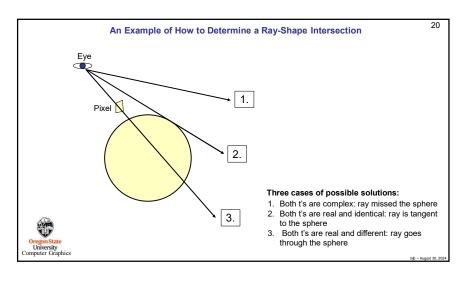


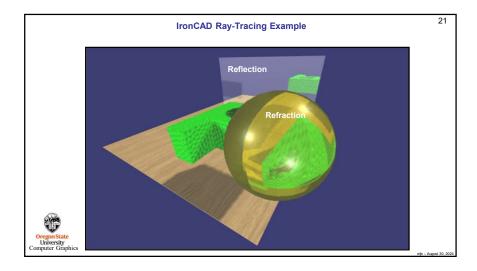


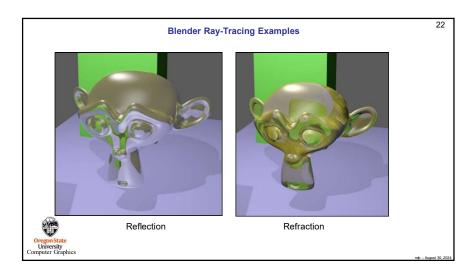


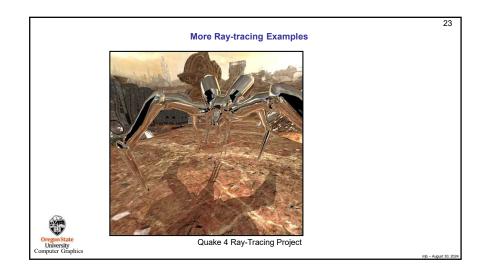






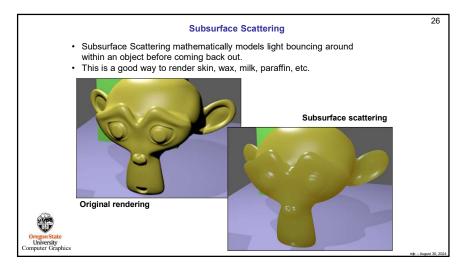


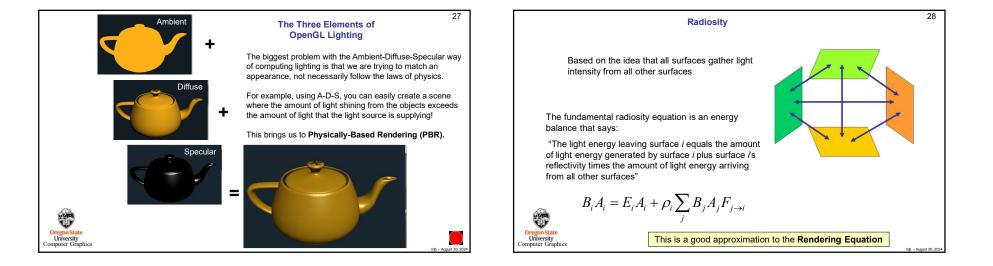




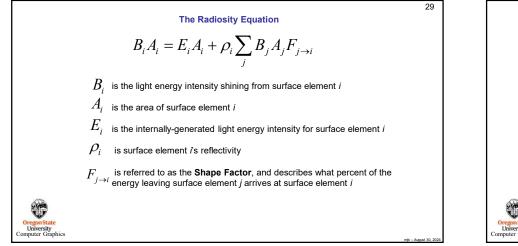


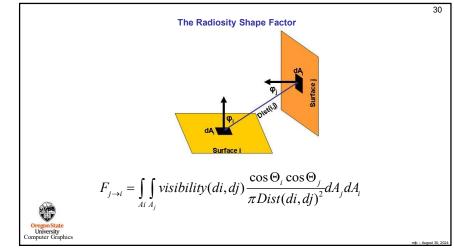


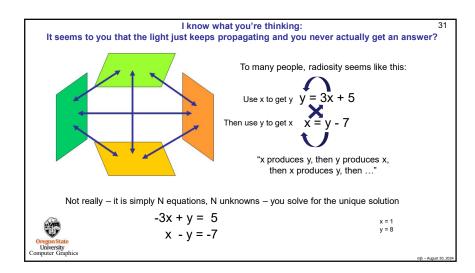




## 







The Radiosity Matrix Equation	32
$B_i A_i = E_i A_i + \rho_i \sum_j B_j A_j F_{j \to i} \qquad $	
Expand for each surface element, and re-arrange to <b>solve for the surface intensities, the <i>B</i>'s</b> :	
$\begin{bmatrix} 1-\rho_{1}F_{1\rightarrow1} & -\rho_{1}F_{1\rightarrow2} & \bullet \bullet & -\rho_{1}F_{1\rightarrow N} \\ -\rho_{2}F_{2\rightarrow1} & 1-\rho_{2}F_{2\rightarrow2} & \bullet \bullet & -\rho_{2}F_{2\rightarrow N} \\ \bullet \bullet & \bullet & \bullet & \bullet \\ -\rho_{N}F_{N\rightarrow1} & -\rho_{N}F_{N\rightarrow2} & \bullet \bullet & 1-\rho_{N}F_{N\rightarrow N} \end{bmatrix} \begin{bmatrix} B_{1} \\ B_{2} \\ \bullet \bullet \\ B_{N} \end{bmatrix} = \begin{bmatrix} E_{1} \\ E_{2} \\ \bullet \bullet \\ E_{N} \end{bmatrix}$	
$\begin{bmatrix} -\rho_N F_{N \to 1} & -\rho_N F_{N \to 2} & \bullet \bullet & 1 - \rho_N F_{N \to N} \end{bmatrix} \begin{bmatrix} B_N \end{bmatrix} \begin{bmatrix} E_N \end{bmatrix}$	
This is a lot of equations!	
University Computer Graphics mp.	- August 30, 2024

