













































![](_page_11_Figure_1.jpeg)

![](_page_12_Picture_0.jpeg)

![](_page_12_Figure_1.jpeg)

![](_page_13_Figure_0.jpeg)

Photon Map
<ul> <li>Break lighting into several components         <ul> <li>LDS*E and LS*E paths (direct + specular)</li> <li>LS+DS*E paths (caustic)</li> <li>L(S D)*DDS*E paths (indirect)</li> </ul> </li> </ul>
<ul> <li>Use a different technique for each component         <ul> <li>Note that S*E part is common – always start by tracing rays from the eye through specular bounces to a diffuse surface (or a light)</li> </ul> </li> </ul>
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![](_page_14_Figure_0.jpeg)

![](_page_14_Figure_1.jpeg)

![](_page_15_Figure_0.jpeg)

![](_page_15_Figure_1.jpeg)

![](_page_16_Figure_0.jpeg)

![](_page_16_Figure_1.jpeg)

![](_page_17_Figure_0.jpeg)

![](_page_17_Figure_1.jpeg)

![](_page_18_Figure_0.jpeg)

![](_page_18_Figure_1.jpeg)

![](_page_19_Figure_0.jpeg)

![](_page_19_Figure_1.jpeg)