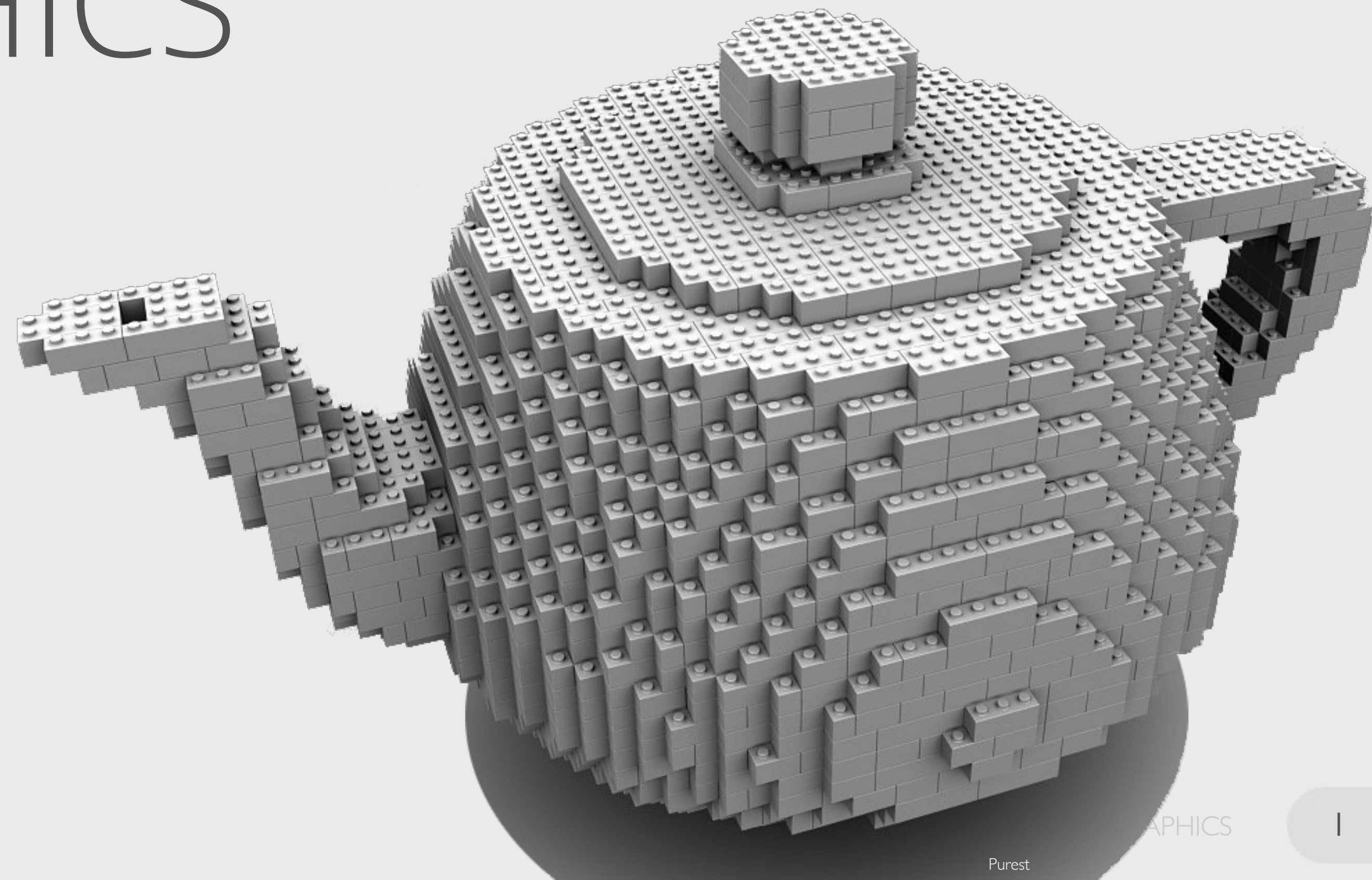


MULTIMEDIA & COMPUTER GRAPHICS

Dr. Arturo Jafet Rodríguez Muñoz

Ing. Bernardo Moya de la Mora

RAY TRACING



RENDERING

Converts a model into an image

Either simulating light transport or some non-photorealistic algorithm

Light transport

Transport (how much light from A to B)

Scattering (how surfaces interact with light)



RENDERING

Scanline rendering

Ray tracing rendering



Fastest

Most fidelity



RAY TRACING

Technique for modeling light transport

Ray casting

Recursive ray tracing

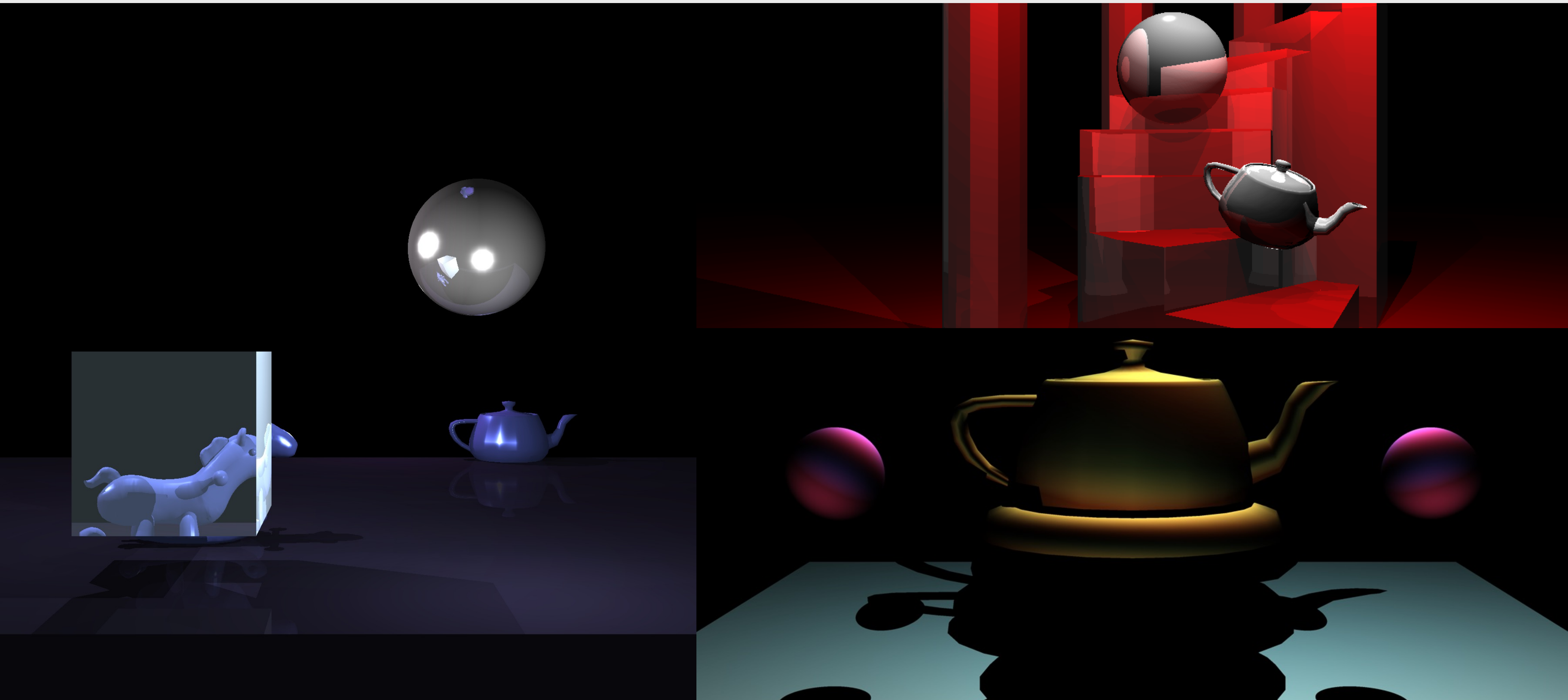
Distribution ray tracing

Photon mapping

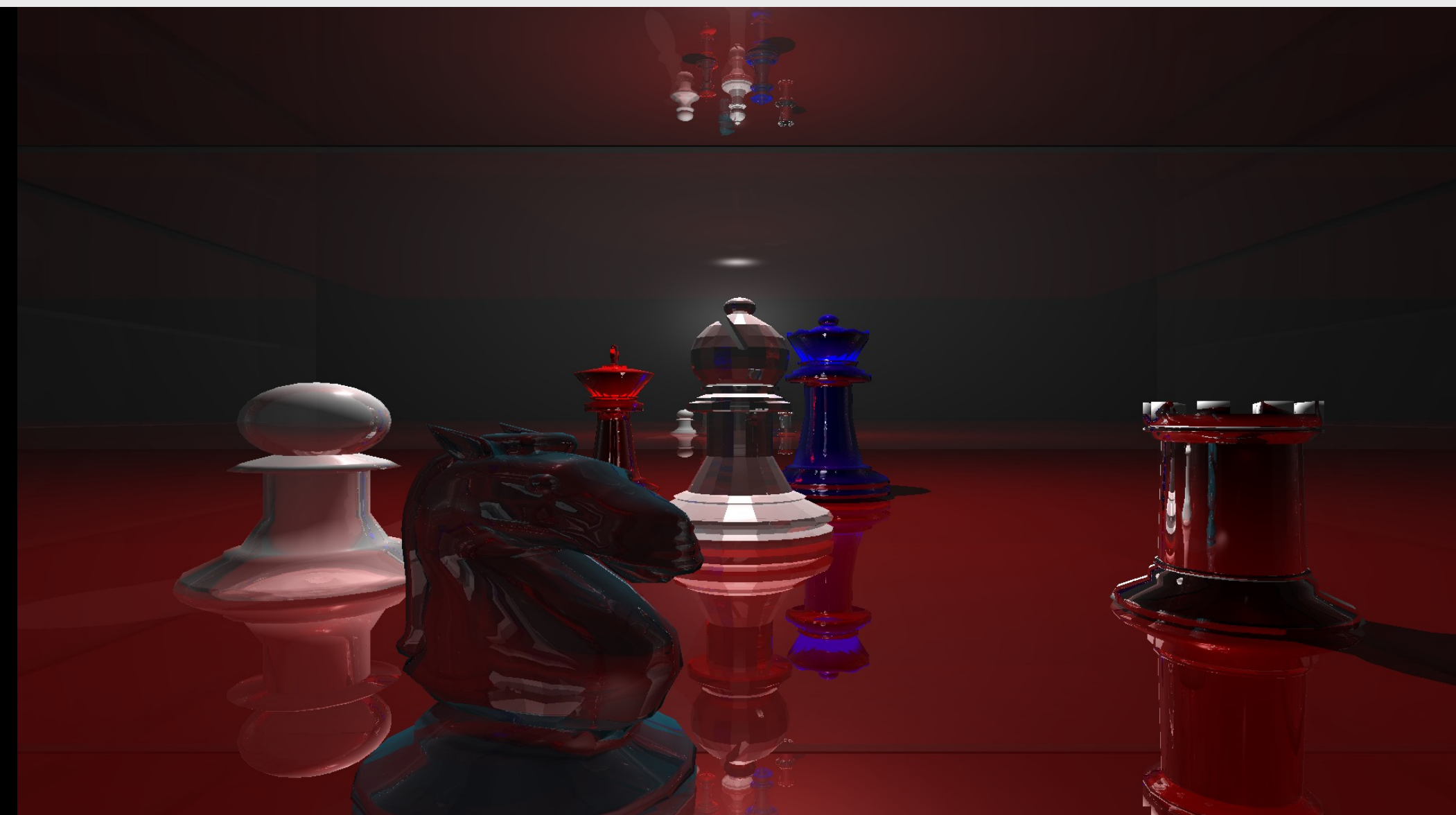
Path tracing



RAY TRACING



RAY TRACING



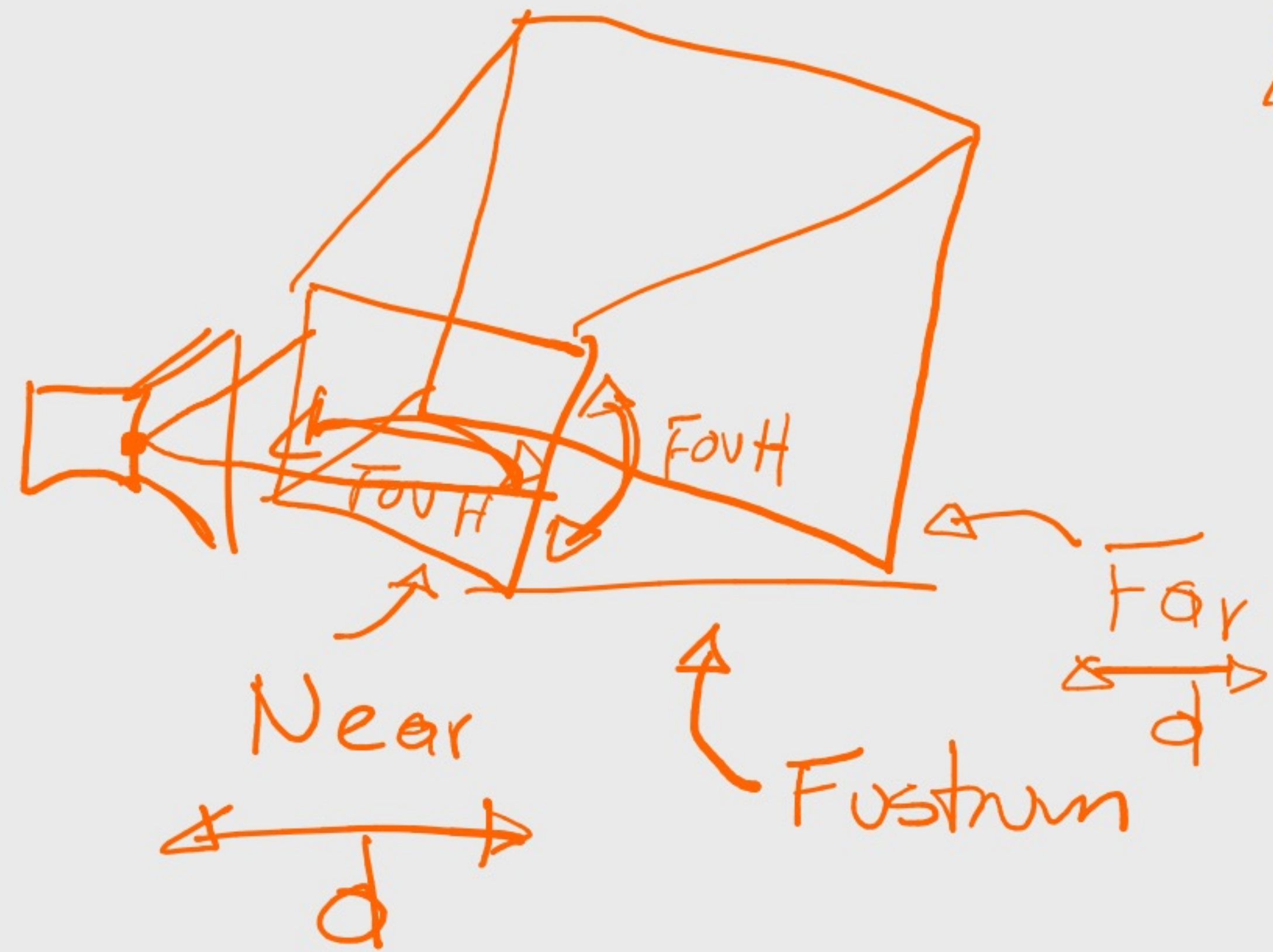
RAY TRACING



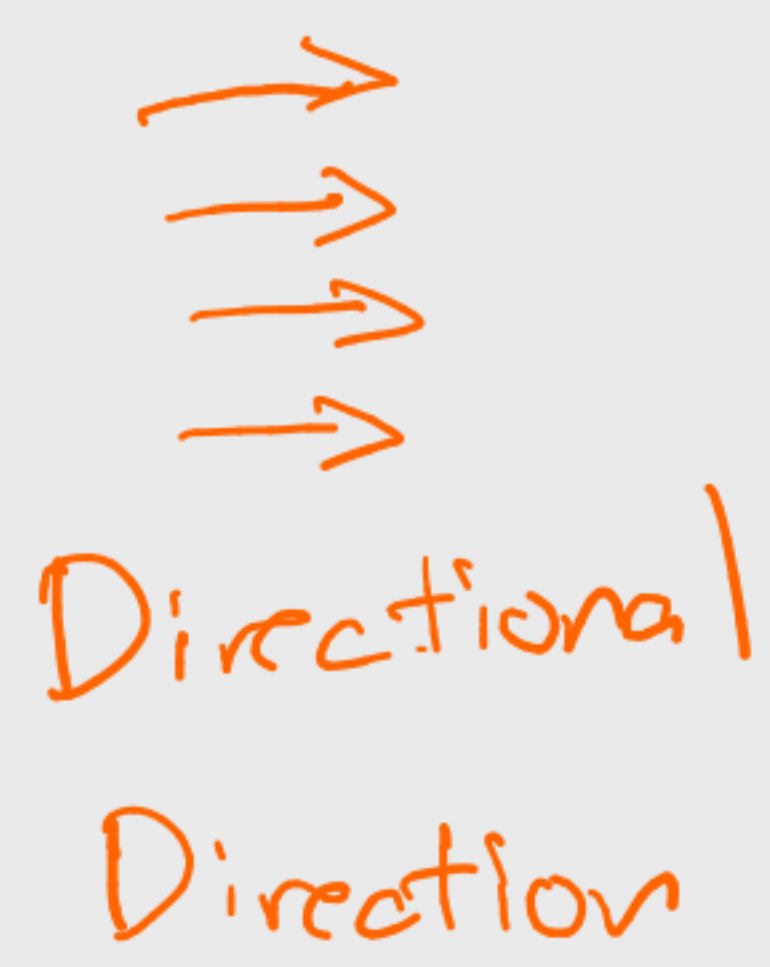
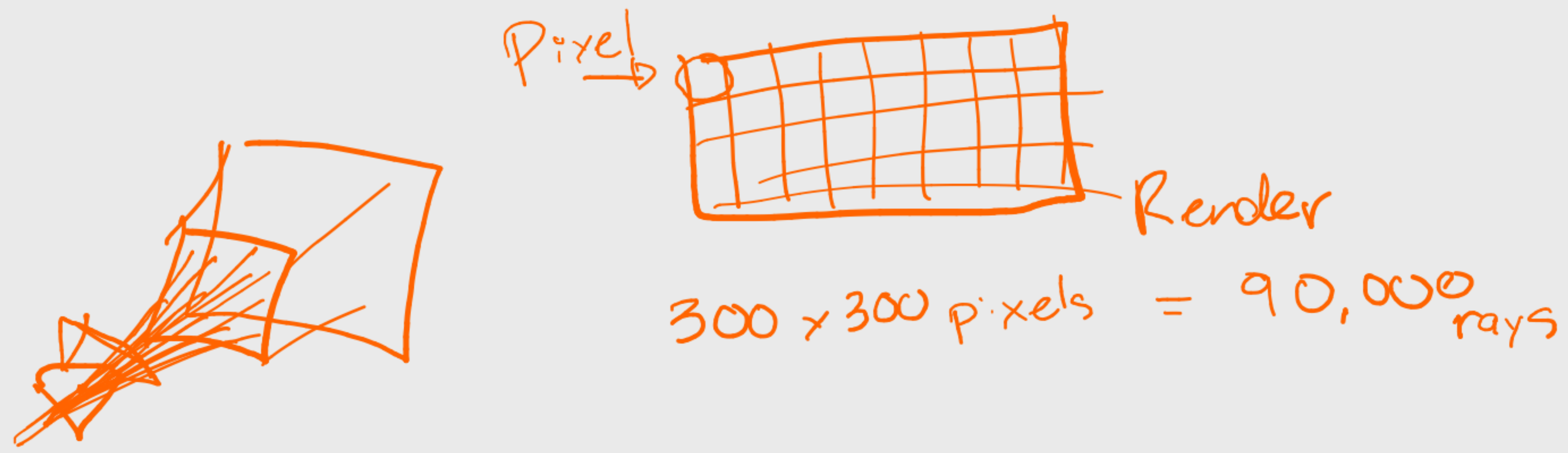
RAY TRACING

Field Of View
Angles

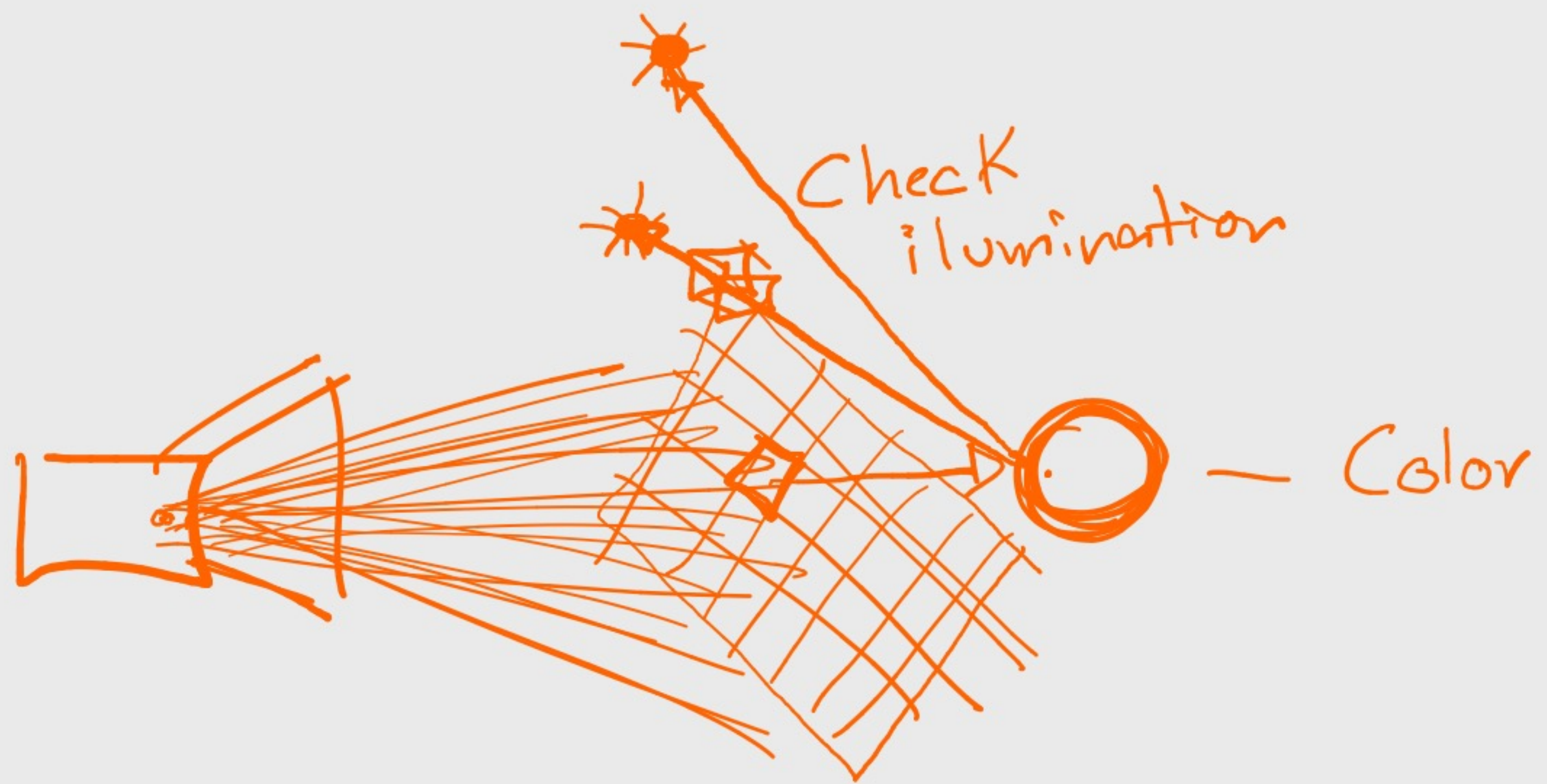
Camera
Lights
Models / Objects
Color
Scene



RAY TRACING

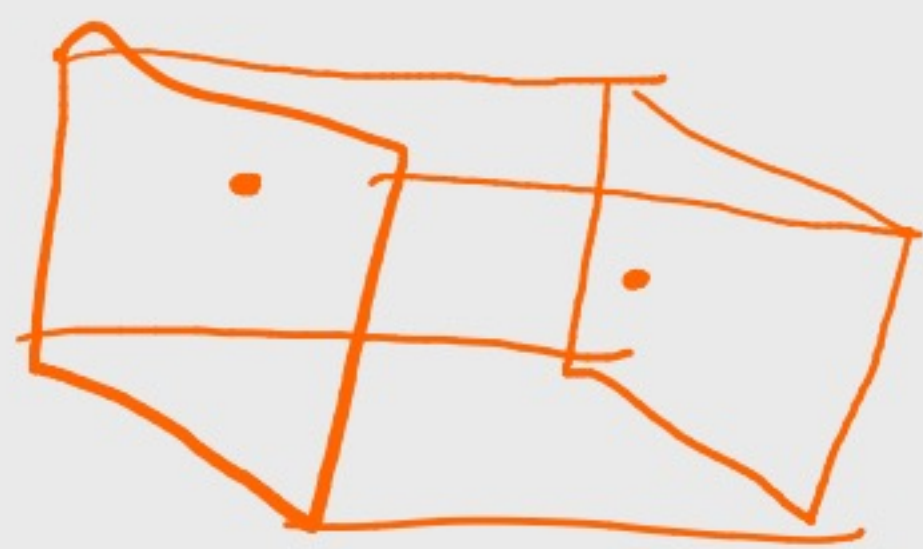


RAY TRACING



Scene

- ↳ [] Objects
- ↳ [] Lights
- ↳ Camera

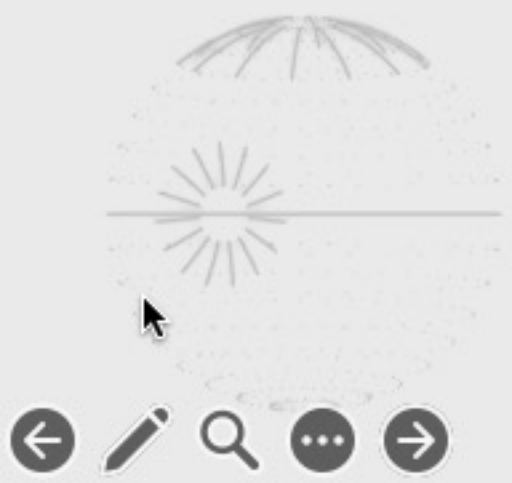
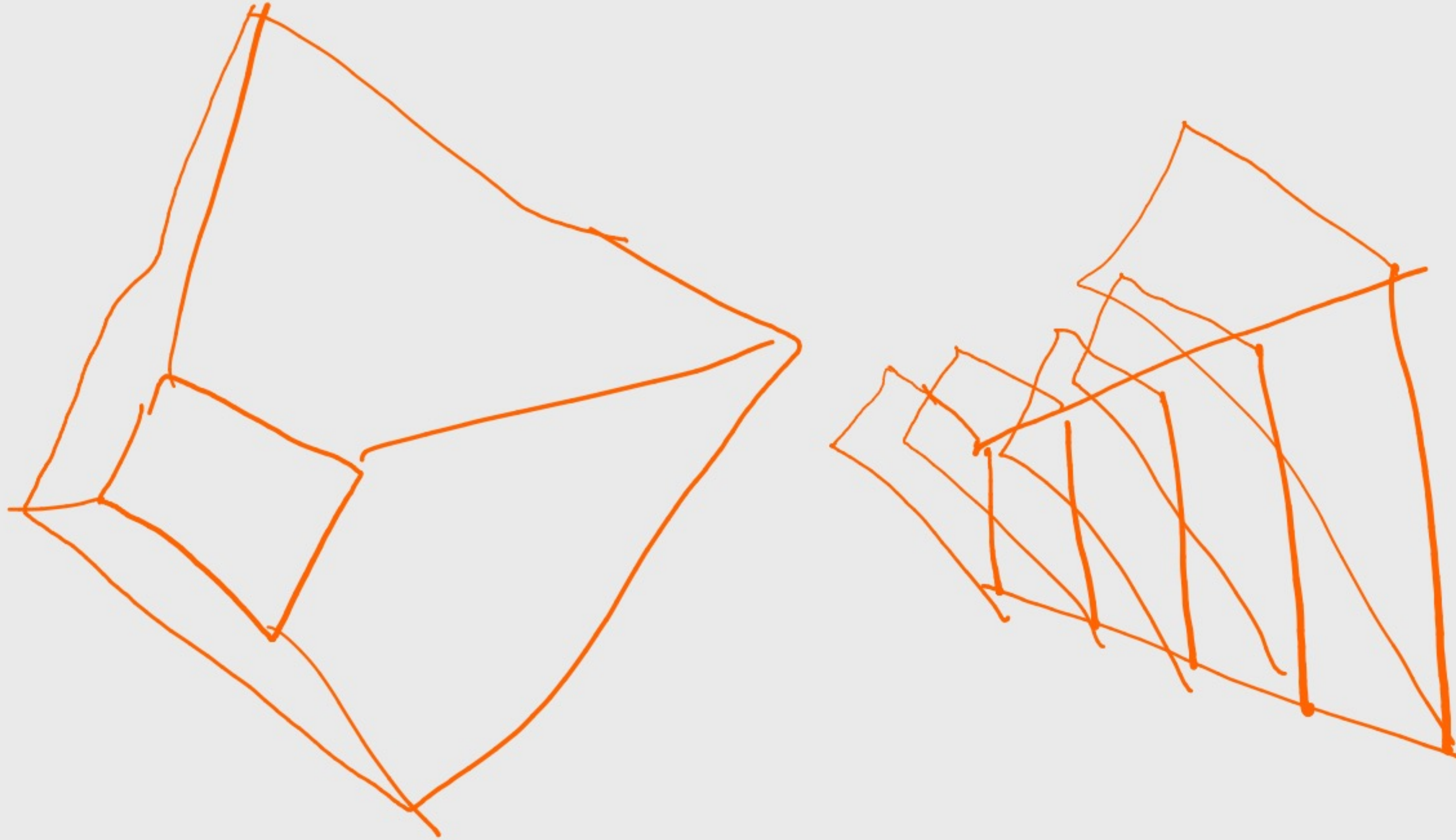


Orthogonal

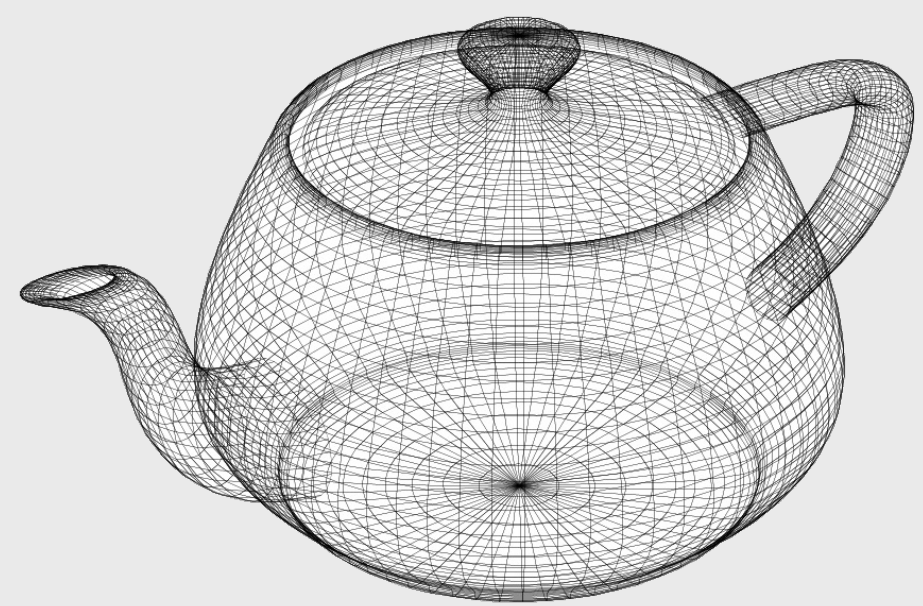


Perspective

RAY TRACING



REFLECTION



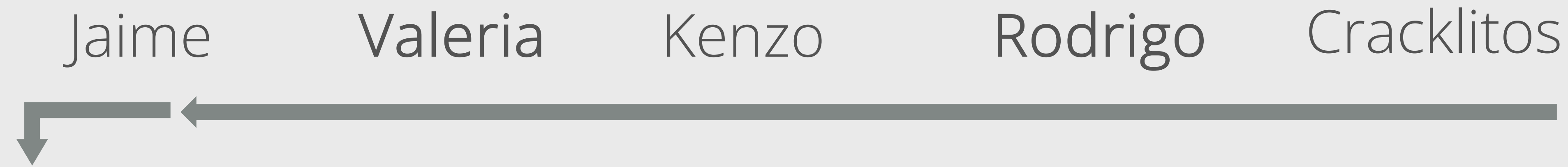
Pato

Charly

Carlos S

Dubin

Emiliano



Jaime

Valeria

Kenzo

Rodrigo

Cracklitos



Omar

Soto

Samuel

Fátima

