





















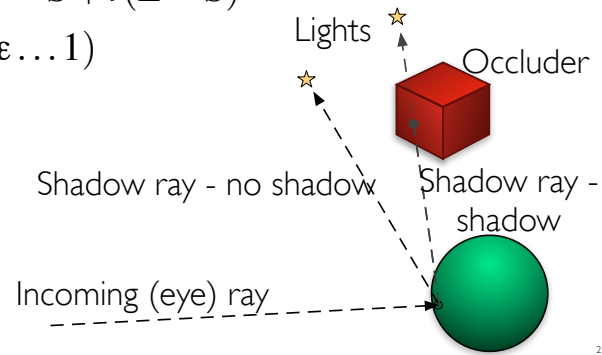


# Shadow Rays

- Detect shadow by rays to light source

$$\mathbf{R}(t) = \mathbf{S} + t(\mathbf{L} - \mathbf{S})$$

$$t \in [\epsilon \dots 1)$$

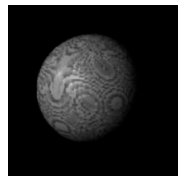


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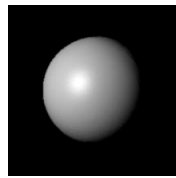
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# Shadow Rays

- Test for occluder
  - No occluder, shade normally ( e.g. Phong model )
  - Yes occluder, skip light ( don't skip ambient )
- Self shadowing
  - Add shadow bias
  - Test object ID



Self-shadowing



Correct

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