

CS-184: Computer Graphics

Lecture #7: Raytracing

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Today

- **Raytracing**
 - Shadows and direct lighting
 - Reflection and refraction
 - Antialiasing, motion blur, soft shadows, and depth of field
- **Intersection Tests**
 - Ray-primitive
 - Sub-linear tests

Light in an Environment



Lady writing a Letter with her Maid
National Gallery of Ireland, Dublin
Johannes Vermeer, 1670

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Global Illumination Effects



POCKETWATCH
Kevin Ódhrain
POV-Ray

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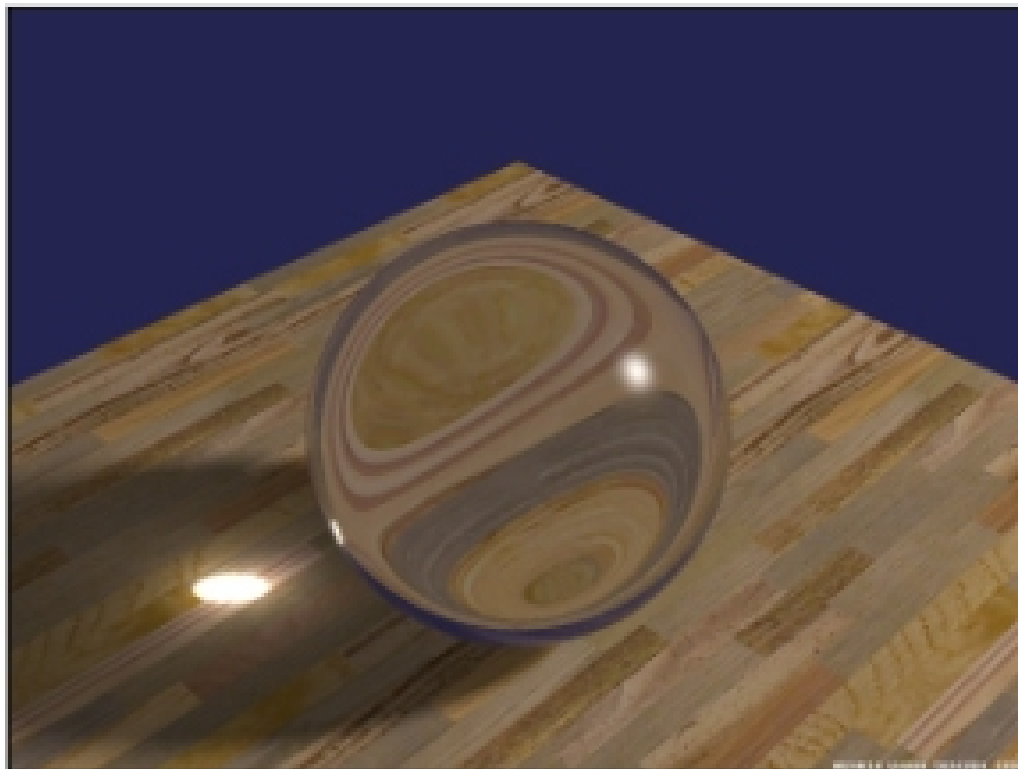
Global Illumination Effects



A Philco 6Z4 Vacuum Tube
Steve Anger
PCV-Ray

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Global Illumination Effects



Caustic Sphere
Henrik Jensen
(refraction caustic)

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