CS-184: Computer Graphics Lecture #6: Raytracing

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Raytracing Assignment



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Global Illumination Effects



PCKTWTCH Kevin Odhner POV-Ray

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Global Illumination Effects





6

Global Illumination Effects



Caustic Sphere Henrik Jensen (refraction caustic)

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Global Illumination Effects



Caustic Ring				
Henrik Jensen				
reflection caustic)				

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Global Illumination Effects



Sphere Flake Henrik Jensen

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- Scan conversion
- 3D \rightarrow 2D \rightarrow Image
- Based on transforming geometry
- Raytracing
- 3D → Image
- Geometric reasoning about light rays

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- Basic tasks
- Build a ray
- Figure out what a ray hits
- Compute shading

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	Examples		
	Multiple-Center-of-Projection Images P. Rademacher and G. Bishop SIGGRAPH 1998	18	

Examples

Spherical and Cylindrical Projections Ben Kreunen From Big Ben's Panorama Tutorials

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Saturday, February 9, 13

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