"High Dynamic Range Lighting"

Paul Debevec, USC Institute for Creative Technologies



















Dynamic Range in the Real World



Outside in the sun 1/1000th sec shutter f/11 aperture 0 ND filters 0dB gain

64 times the light as inside









































March 24, 2004













GameDevelopers Conference HDR Rend	lering Proce	esti e de la como
Scene Geometry		
lit with Sc HDR Light Probes	tene Filter	+ Tone Map
		Displayable Image

























































Tchou, Duiker, Sarokin and Sagar. Acquiring the Reflectance Field of a Human Face. SIGGRAPH 2000.





















P.-P. Sloan, J. Kautz, J. Snyder, Precomputed Radiance Transfer for Real-Time Rendering in Dynamic, Low-Frequency Lighting Environments, SIGGRAPH 2002

Excellent Overview: Robin Green, Spherical Harmonic Lighting: The Gritty Details, GDC 2003.







































http://www.debevec.org/