61A Extra Lecture 9

Announcements

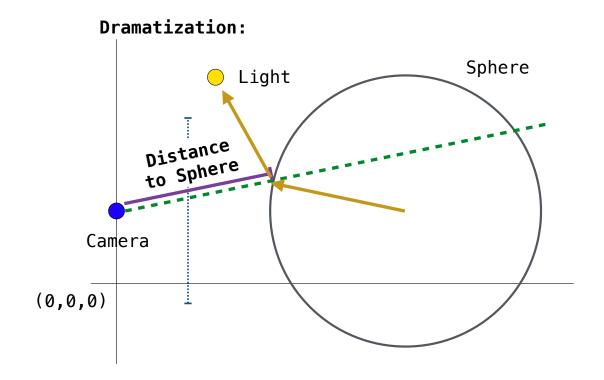
Pixels

(Demo)

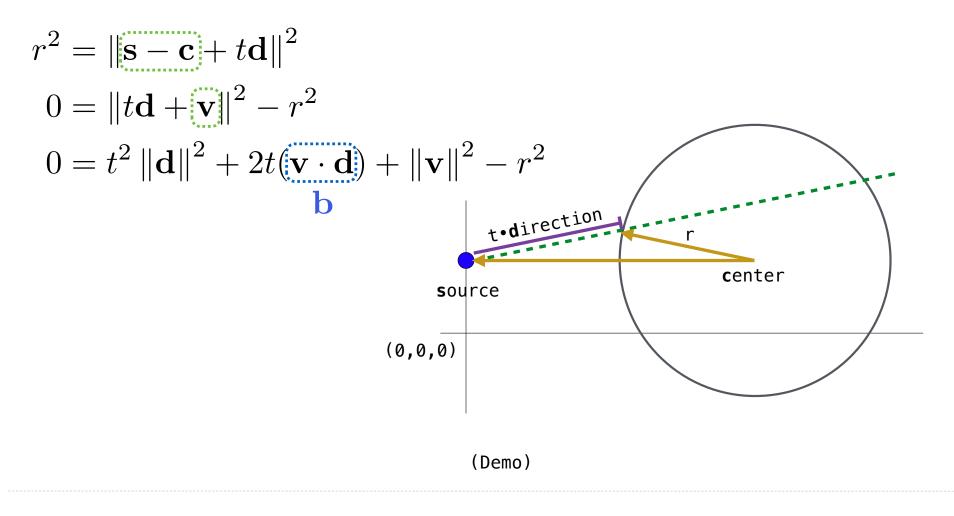
Ray Tracing

Ray Tracing

A technique for displaying a 3D scene on a 2D screen by tracing a path through every pixel

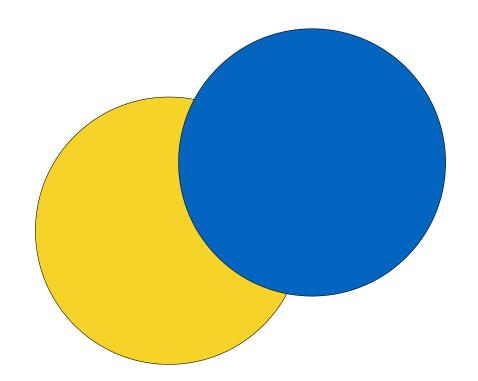


Distance from a Source to a Sphere



6

Multiple Spheres



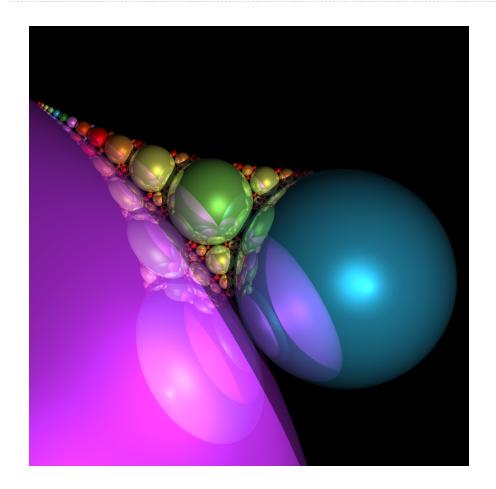
Compute distance to each sphere

Pixel color from the closest sphere

(Demo)

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Reflections



Color is a mixture of the sphere & reflection

The **source** of a reflection is the surface of the sphere, instead of the original camera

(Demo)