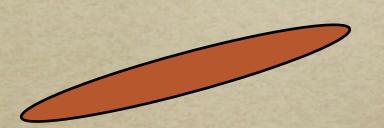
Just the beginning...

- Aliasing artefacts
- No surface/surface illumination
- No caustics
- Real shadows are soft
- Colour problems
- Very slow

Shadows

Light



Stochastic Approach

Light

Cast rays at random to different parts of light.
Average is proportion of light visible.







More distributed raytracing: motion blur

If an object is moving it has a different position as a function of time.

Add random increments to the time at which a ray is cast.

The average approximates the effect of the blur.



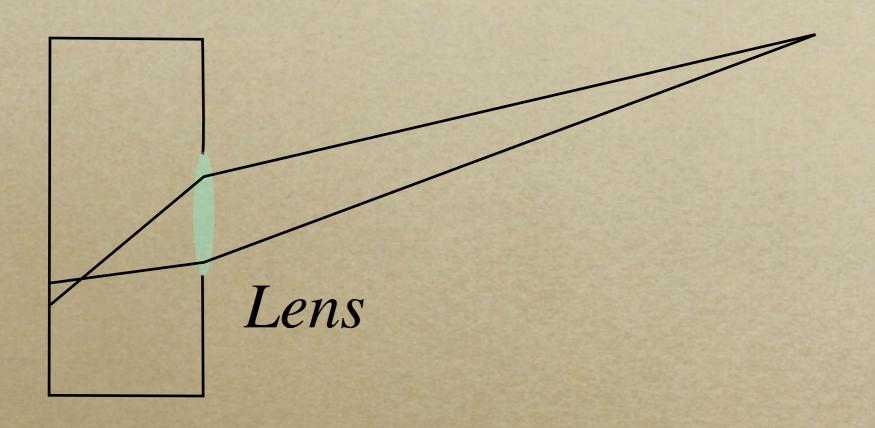








Depth of field



Cheap Approximation

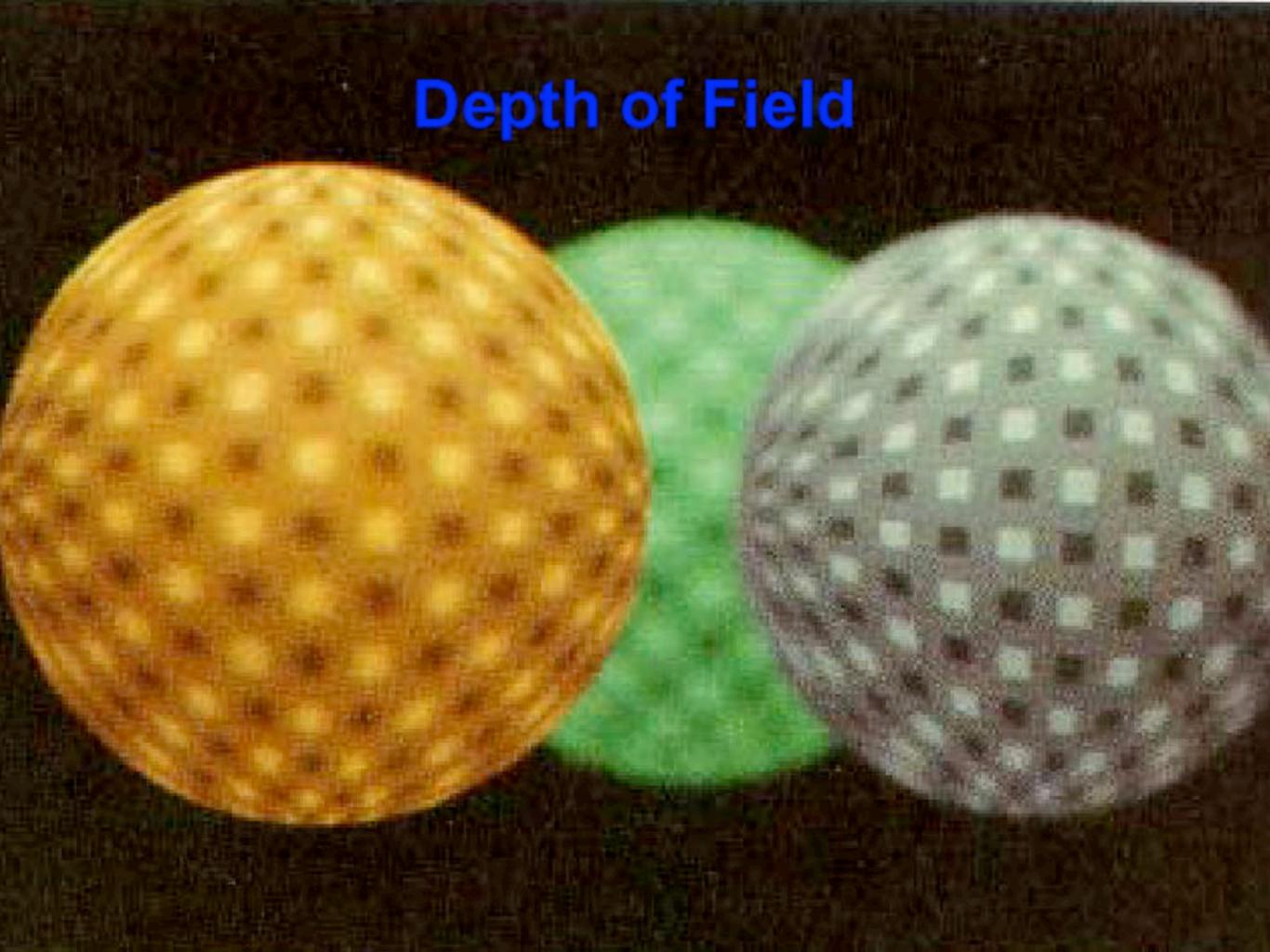
Ray from random point within circle of confusion.

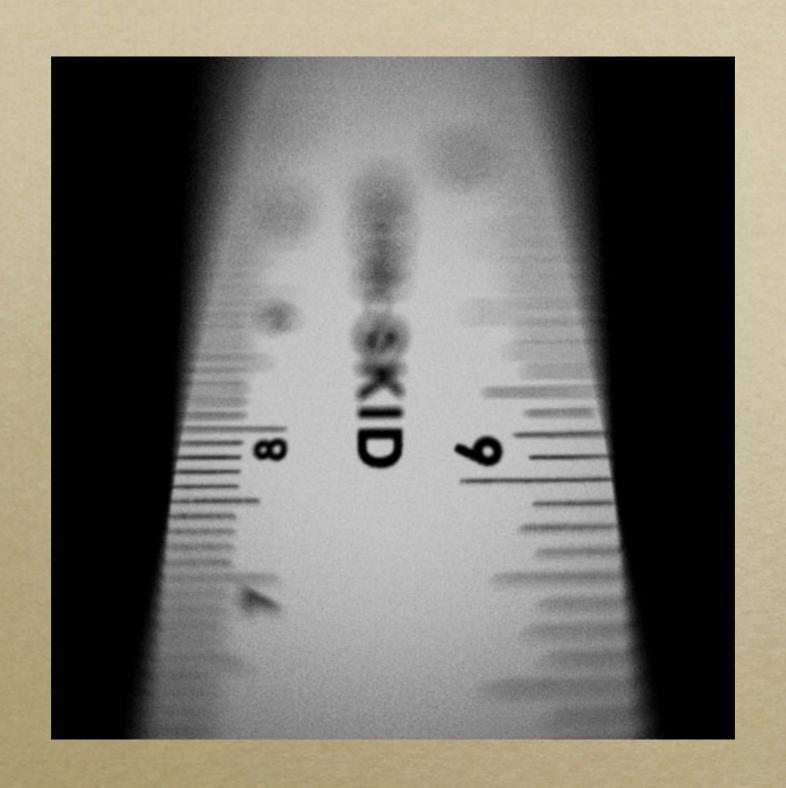
Eye point

Circle of confusion

View Plane

Pixel





Just the beginning...

- Aliasing artefacts
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Are we ready for colour?

- Is RGB enough to represent colours?
- What does the question on mixing paint tell us? (Any answers yet?)
- What colour is a blue coat in sodium light?
- What colour is a green coat in sodium light?