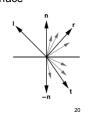
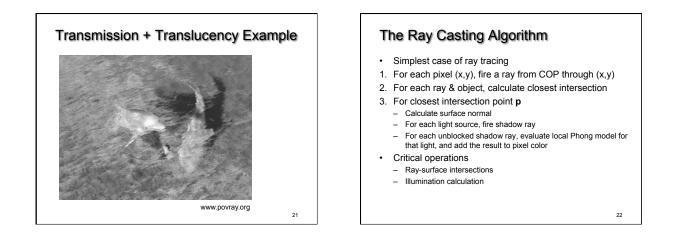
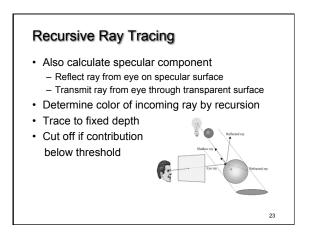


Translucency

- Most real objects are not transparent, but blur the background image
- · Scatter light on other side of surface
- Use stochastic sampling (called distributed ray tracing)



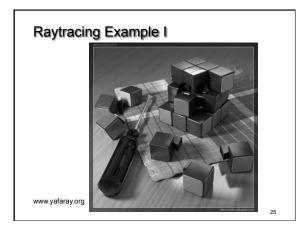




Ray Tracing Assessment

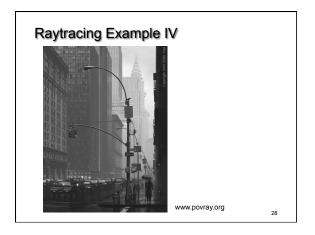
- · Global illumination method
- · Image-based
- Pluses
- Relatively accurate shadows, reflections, refractions
- Minuses
 - Slow (per pixel parallelism, not pipeline parallelism)
 - Aliasing
 - Inter-object diffuse reflections require many bounces

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Summary

- Ray Casting
- Shadow Rays and Local Phong Model
- Reflection
- Transmission
- Next lecture: Geometric queries

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