

Example-based Photometric Stereo

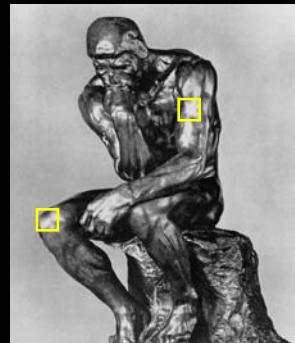


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Shiny things



"Orientation consistency"

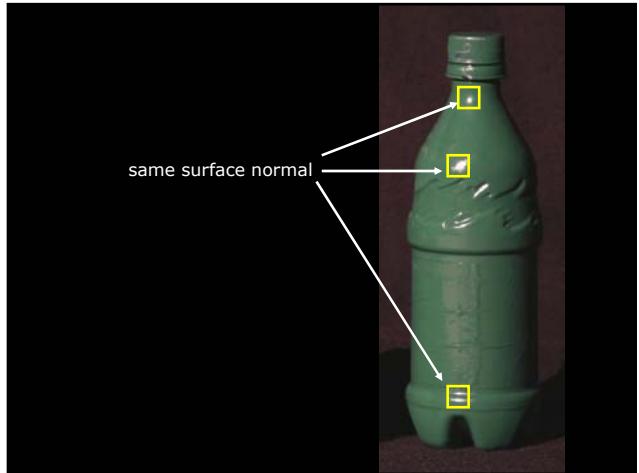
Problem definition

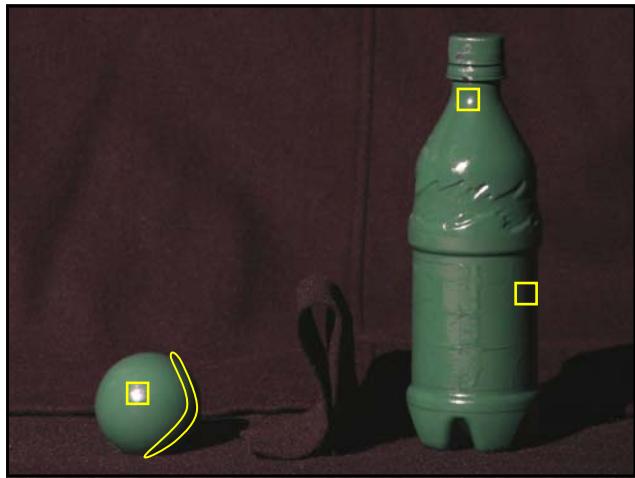
Estimate 3D shape by varying illumination, fixed camera

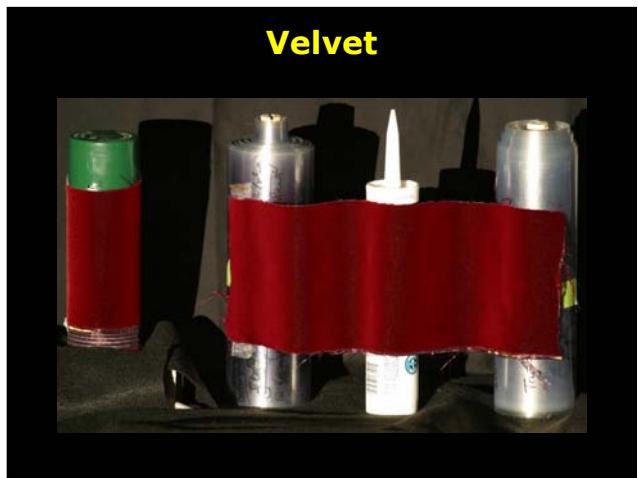
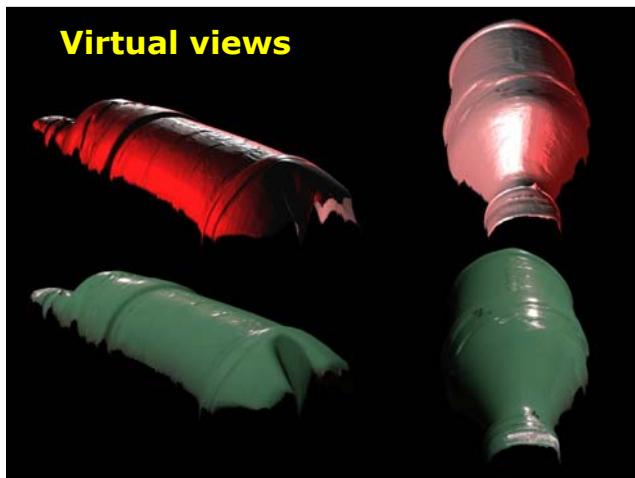
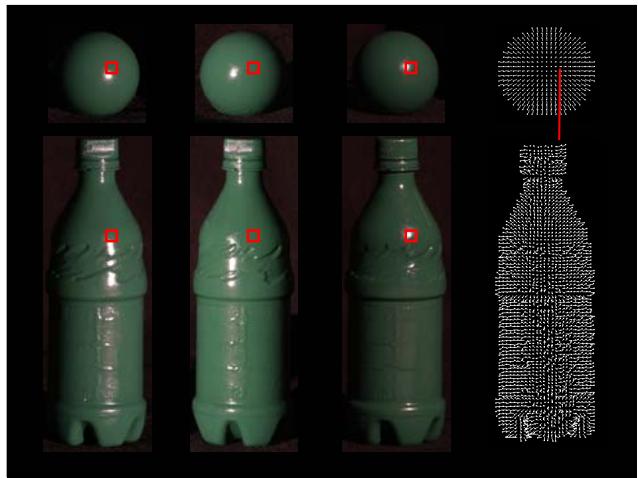
Operating conditions

- any opaque material
- distant camera, lighting
- reference object available
- single material (will relax later...)
- no shadows, interreflections, transparency

same surface normal



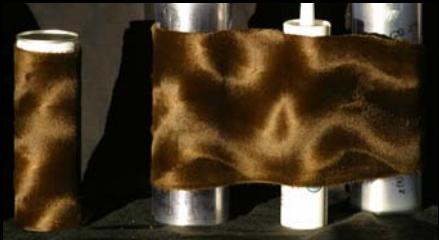




Virtual Views



Brushed Fur



Virtual Views



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