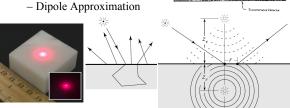
Procedural Modeling

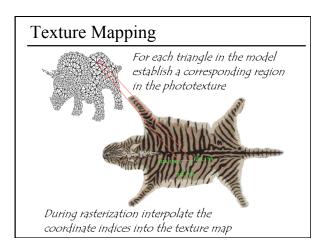
Last Time?

- Measuring BRDFs
- 3D Digitizing & Scattering
- BSSRDFs - Monte Carlo Simulation
 - Dipole Approximation



Today

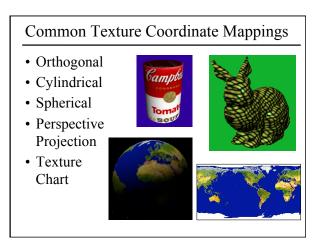
- Texture Mapping
- Common Texture Coordinate Mappings
- Solid Texture
- Procedural Textures
- Perlin Noise
- Procedural Modeling
- L-Systems

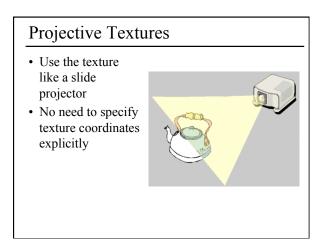


Texture Mapping Difficulties · Tedious to specify

- texture coordinates • Acquiring textures is
- surprisingly difficult - Photographs have
- projective distortions - Variations in reflectance and illumination
- Tiling problems

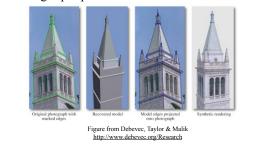


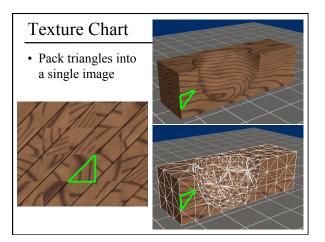




Projective Texture Example

- Modeling from photographs
- Using input photos as textures

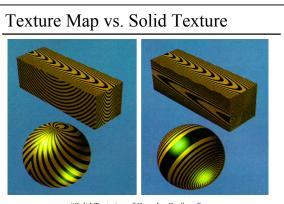




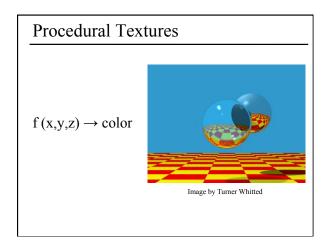
Questions	?		

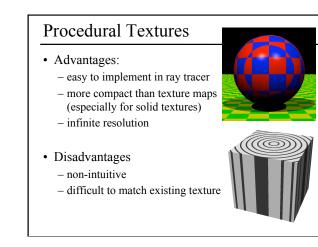
Today

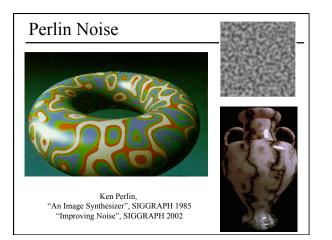
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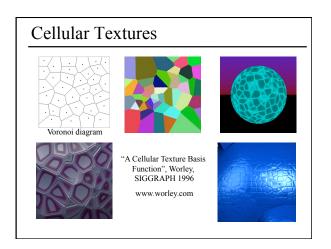


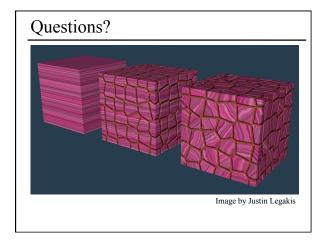
"Solid Texturing of Complex Surfaces", Peachey, SIGGRAPH 1985







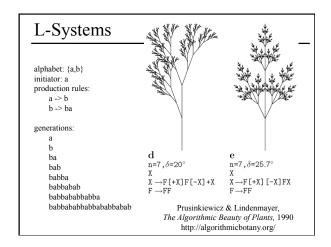


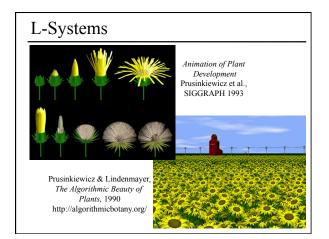


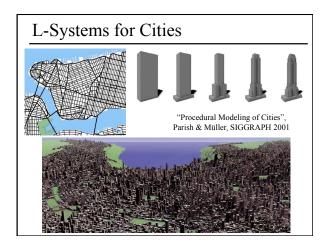
Today

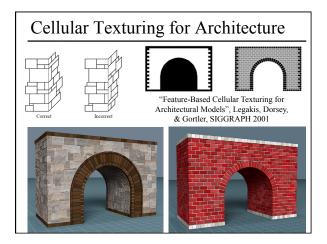
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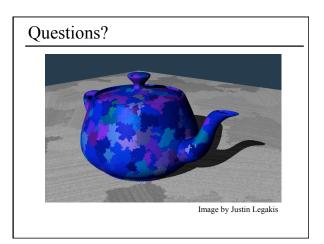


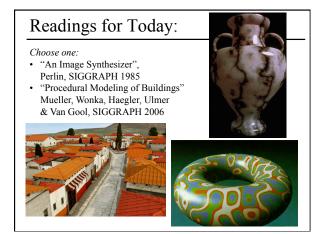












Reading for Friday:

 "Stylized Rendering Techniques For Scalable Real-Time 3D Animation", Lake, Marshall, Harris, and Blackstein, NPAR 2000

