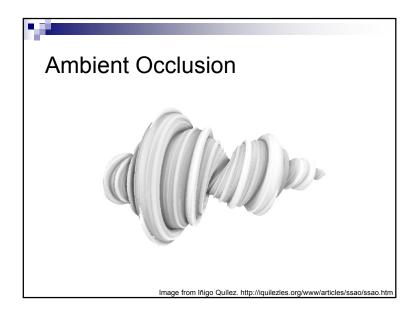
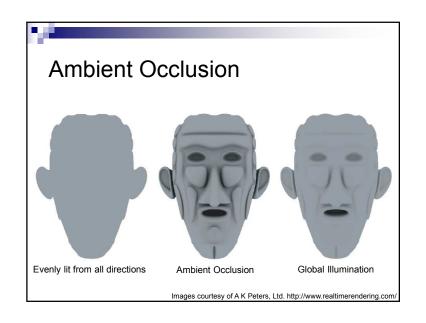
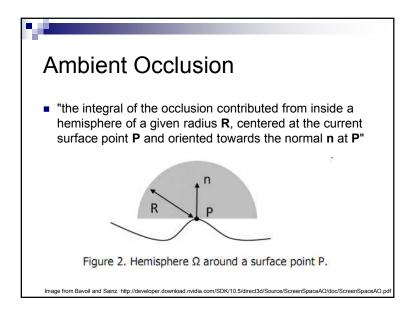


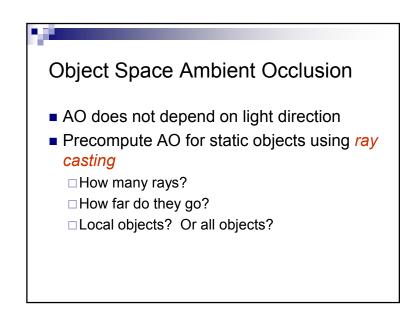
Ambient Occlusion

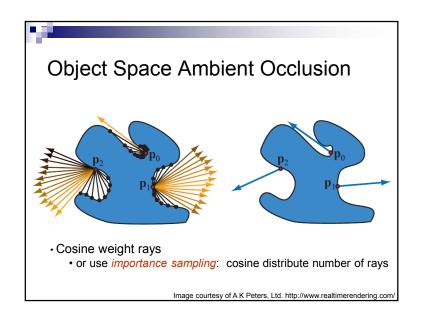
- Ambient Occlusion
 - □ "the crevices of the model are realistically darkened, and the exposed parts of the model realistically receive more light and are thus brighter"
 - □ "the soft shadow generated by a sphere light of uniform intensity surrounding the scene"









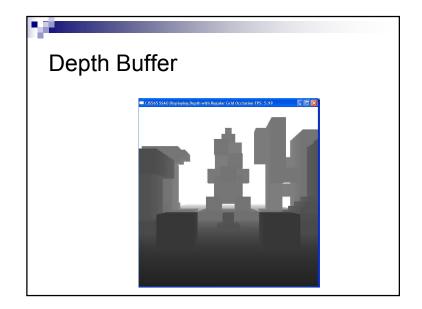


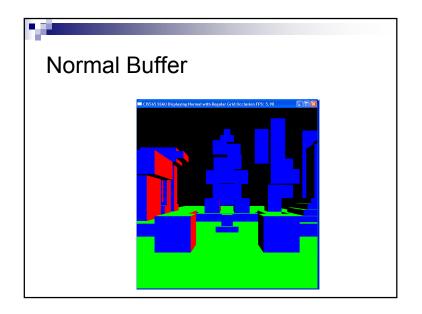
Object Space Ambient Occlusion

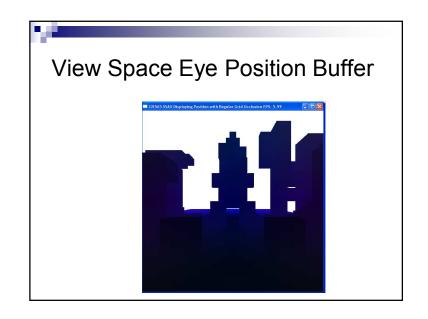
- Depends on scene complexity
- Stored in textures or vertices
- How can we
 - □ Support dynamic scenes
 - ☐ Be independent of scene complexity

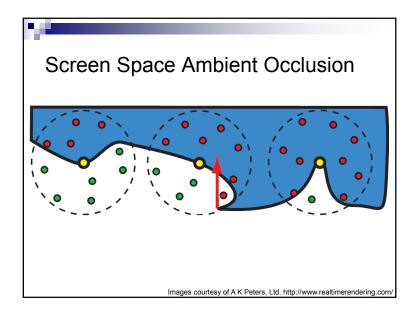
Screen Space Ambient Occlusion

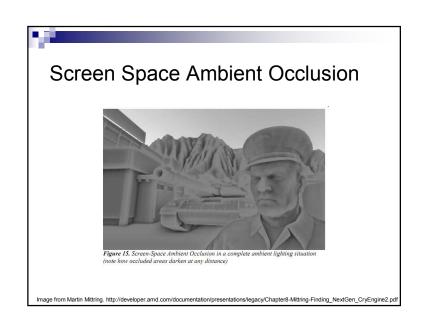
- Apply AO as a post processing effect using a combination of depth, normal, and position buffers
- Not physically correct but plausible
- Visual quality depends on
 - □ Screen resolution
 - □ Number of buffers
 - □ Number of samples

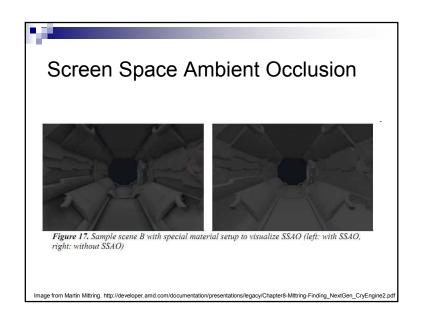




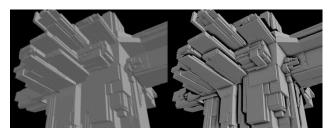








Screen Space Ambient Occlusion



- Blur depth buffer
 Subtract it from original depth buffer
 Scale and clamp image, then subtract from original
 Superficially resembles AO but fast

Image from Mike Pan. http://mikepan.com