

Texture Coordinates Every polygon has object coordinates and

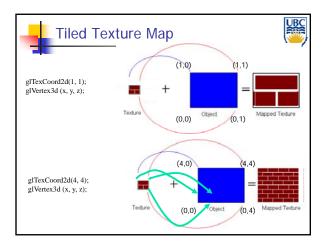
- Every polygon has object coordinates and texture coordinates
 - object coordinates describe where polygon vertices are on the screen
 - texture coordinates describe texel coordinates of each vertex

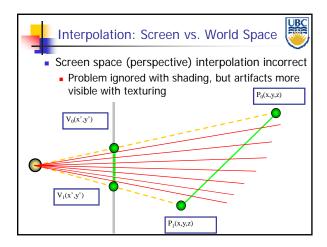
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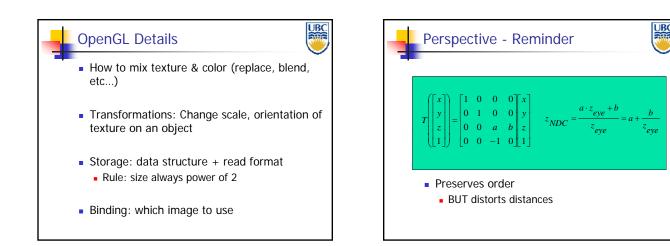
- texture coordinates are interpolated across triangle (like R,G,B,Z)
- (well, not quite...)
- glTexCoord2f(TYPE coords)
 - Other versions for different texture dimensions

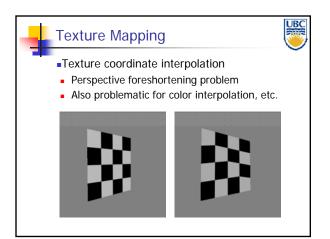
Texture Lookup: Tiling and Clampin

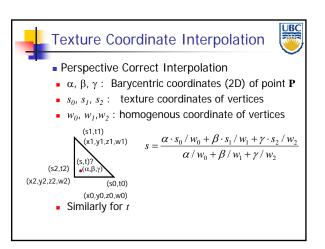
- What if s or t is outside the interval [0...1]?
- Multiple choices
 - Use fractional part of texture coordinates
 Cyclic repetition of texture to tile whole surface glTexParameteri(..., GL_TEXTURE_WRAP_S, GL_REPEAT, GL_TEXTURE_WRAP_T, GL_REPEAT, ...)
 - Clamp every component to range [0...1]
 - Re-use color values from texture image border glTexParameteri(..., GL_TEXTURE_WRAP_S, GL_CLAMP, GL_TEXTURE_WRAP_T, GL_CLAMP, ...)

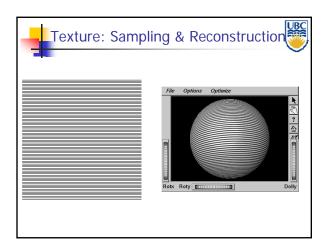


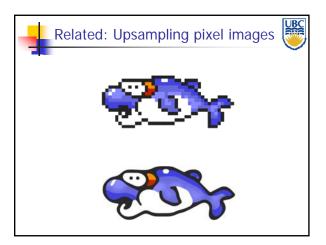


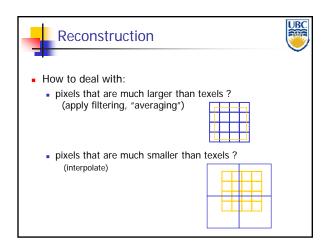


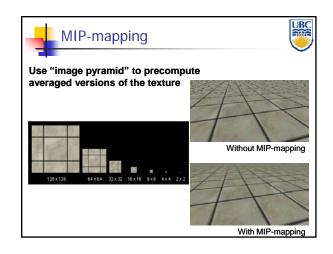


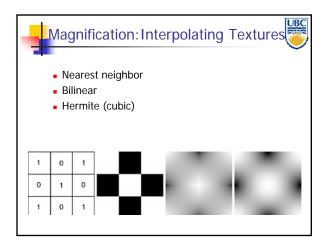


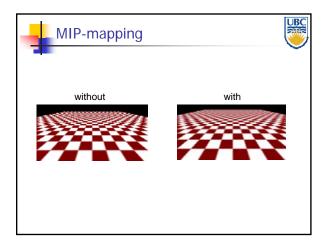


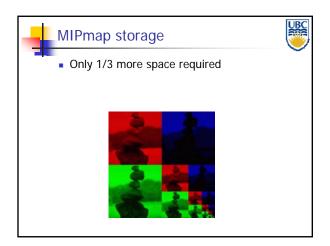


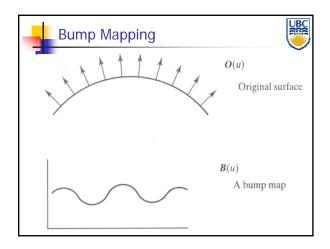


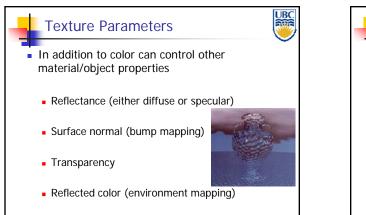


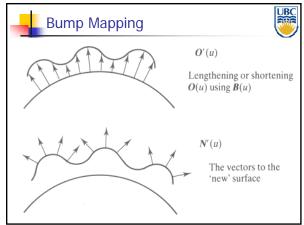


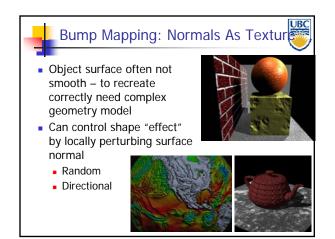


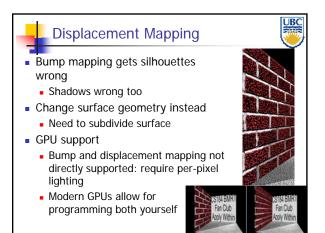


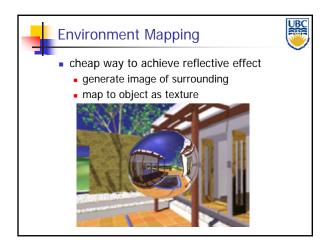


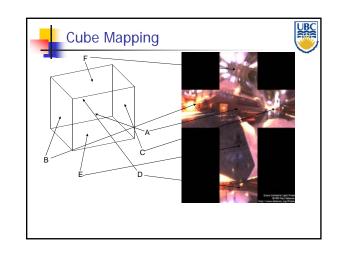












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