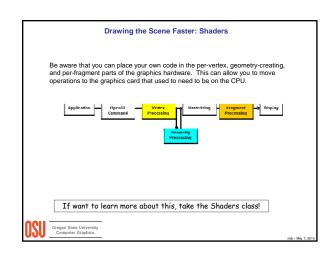
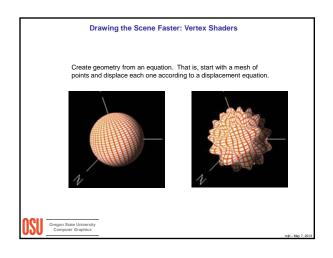
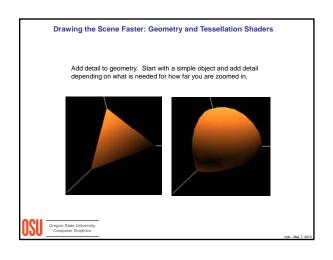
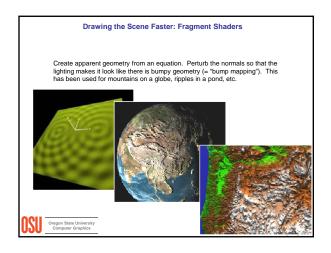


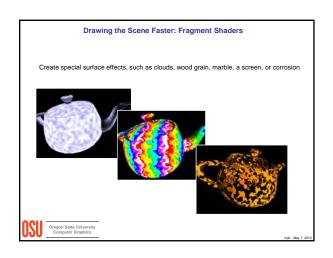
Prawing the Scene Faster: Fragment Processing The fragment processing step in the pipeline takes all the information about a specific pixel, and computes the final color of that pixel. Given the sheer number of pixels in many scenes, this is a place that usually needs some speed-up. Use GL_FLAT shading Use unsigned bytes for pixel formats (not floating point, even though you can do more with floating point pixel formats). Use Texture Objects (this pre-loads textures into graphics card memory) For fog and textures, use a glHint() of GL_FASTEST. Use fragment shaders

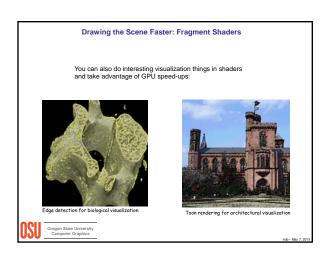


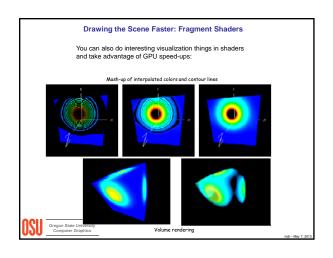


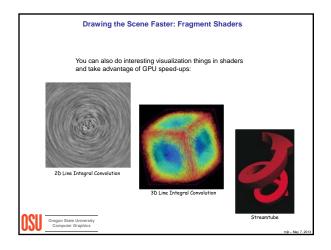












Drawing the Scene Faster: Benchmarking

Sometimes, you just have to run your own timing tests

Run timing tests by calling glFinish() before the drawing you wish to benchmark to completely clear out the pipeline, and again right after the drawing you wish to benchmark (and before the call to glurSwapBuffers()) to wait until all graphics have been processed.

Definitely remove this for production runs!!

Graphics cards today are really fast. Make your test size big so that the precision of the system clock is not an issue.

glClear(...);
....glFinish();
int 10 = glurGet(GLUT_ELAPSED_TIME);

<pr

