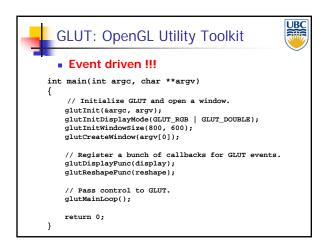
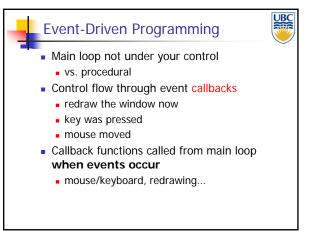
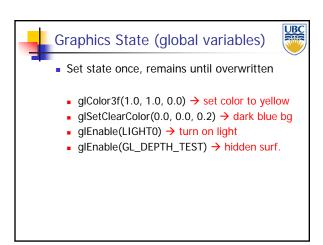


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```
OpenGL/GLUT Example

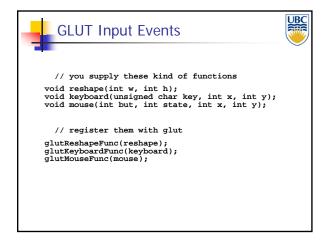
void display(void) {// Called when need to redraw screen.

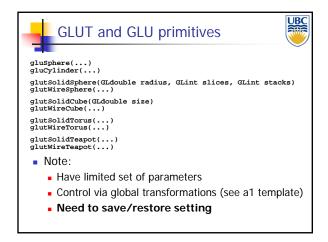
// Clear the buffer we will draw into.
glClearColor(0, 0, 0, 1);
glClear(GL_COLOR_BUFFER_BIT);

// Initialize the modelview matrix.
glMatrixMode(GL_MODELVIEW);
glLoadIdentity();

// Draw STUFF

// Make the buffer we just drew into visible.
glutSwapBuffers();
}
```

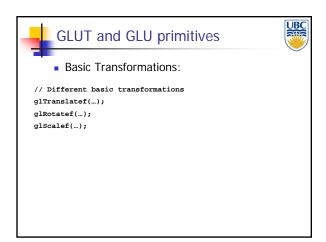


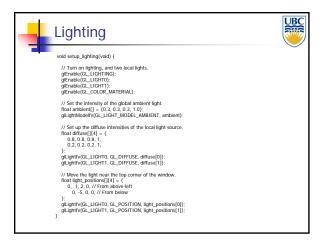


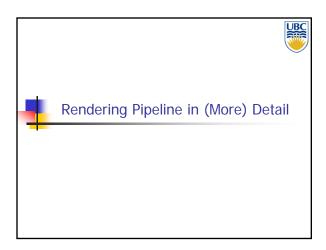
```
GLUT and GLU primitives

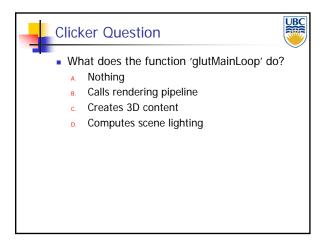
• Example (from a1):

void Turtle::draw() {
    glPushMatrix(); → Save previous state
    glTranslatef(x_, y_, 0);
    // Turtle shell.
    glColor4fv(shell_);
    glBegin(GL_POLYGON);
    for (double i = 0; i < M_Pl; i += M_Pl / 12)
        glVertex3f(cos(i) * radius_, sin(i) * radius_, 0.0);
    glEnd();
    .....
    glPopMatrix(); → Restore previous state
}
```

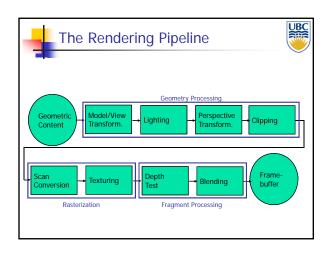


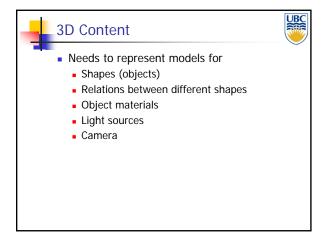


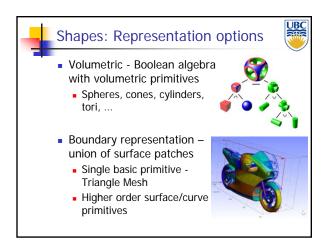


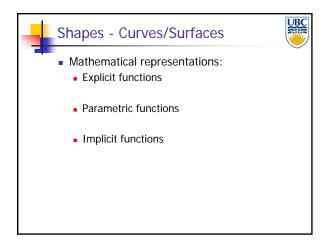


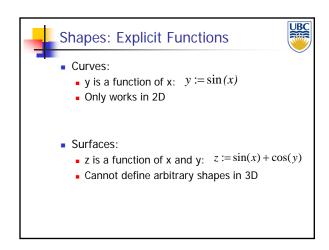
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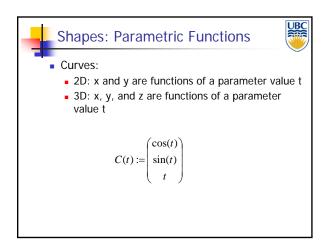


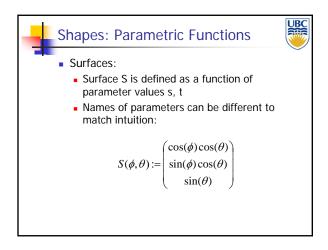


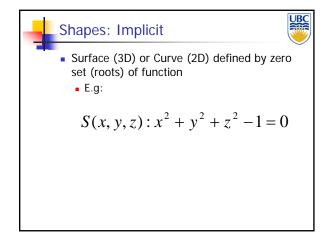


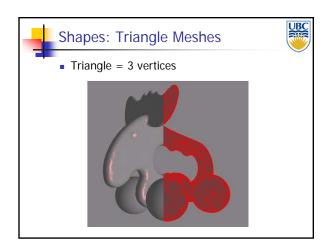


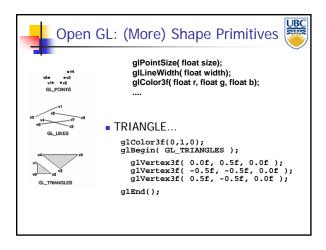


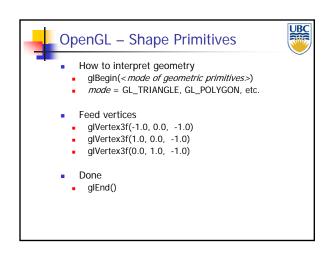


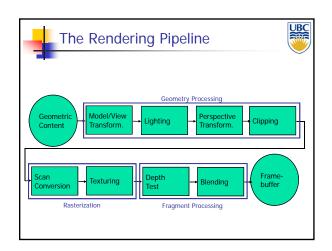




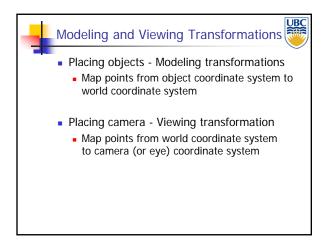


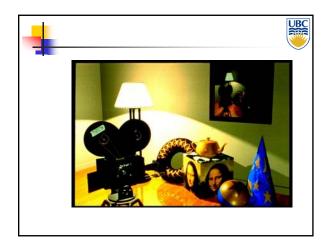


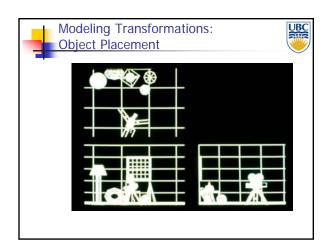


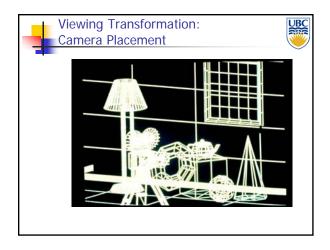


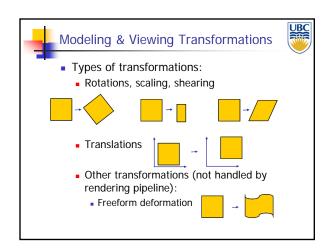
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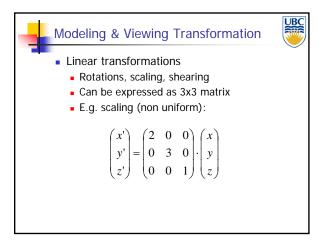


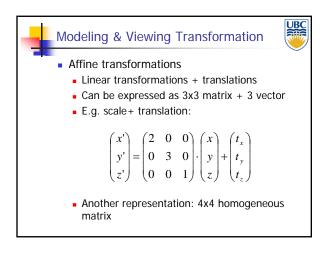


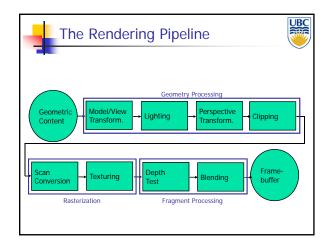




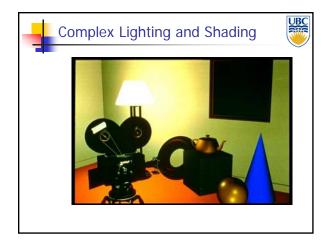


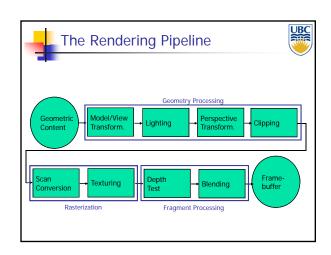


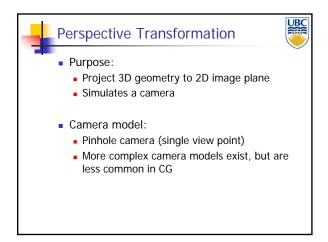




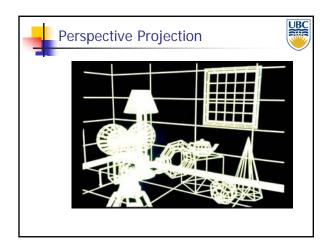


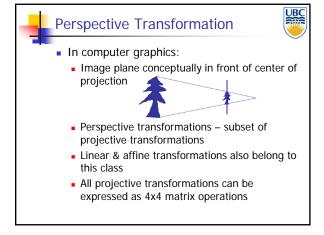


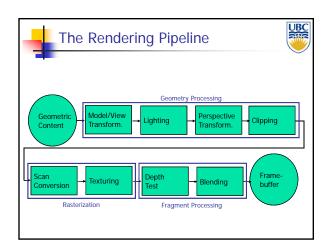


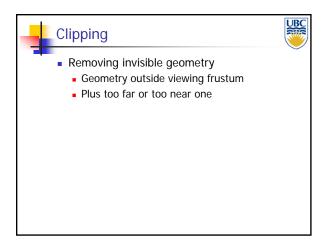


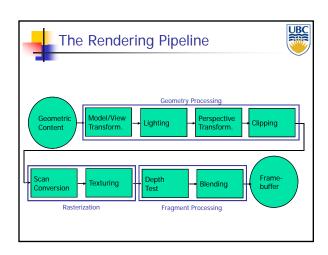
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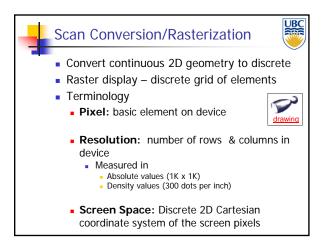




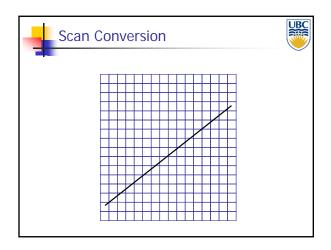


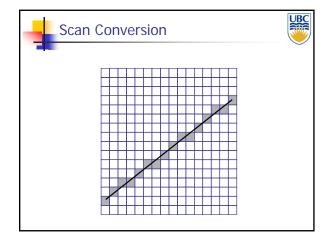


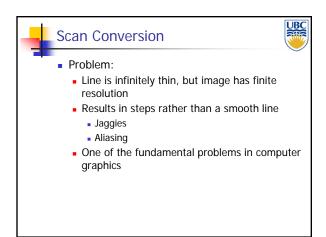


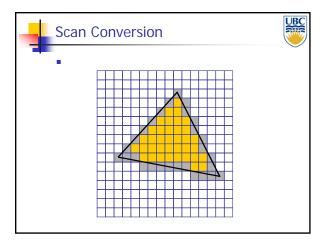


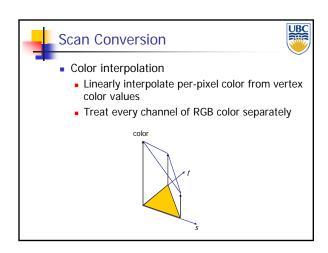
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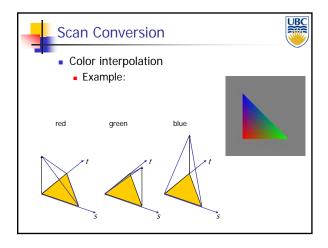




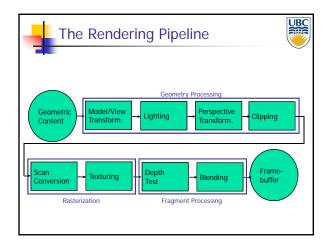


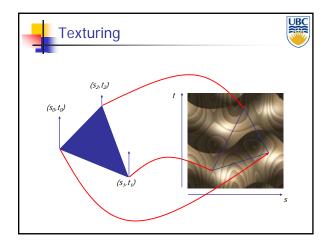


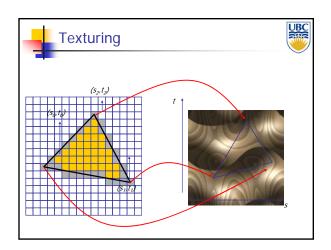


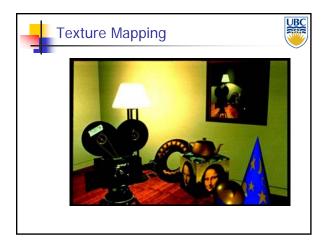


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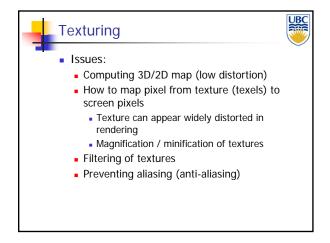




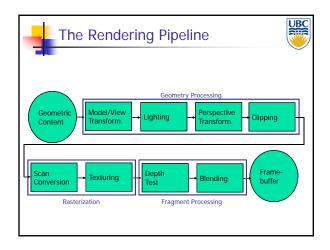


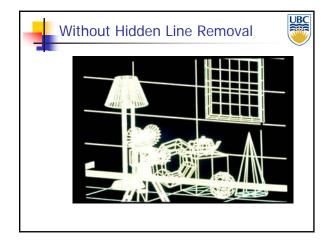






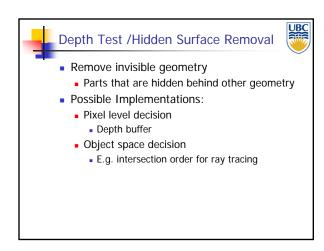
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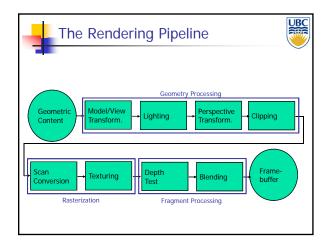












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