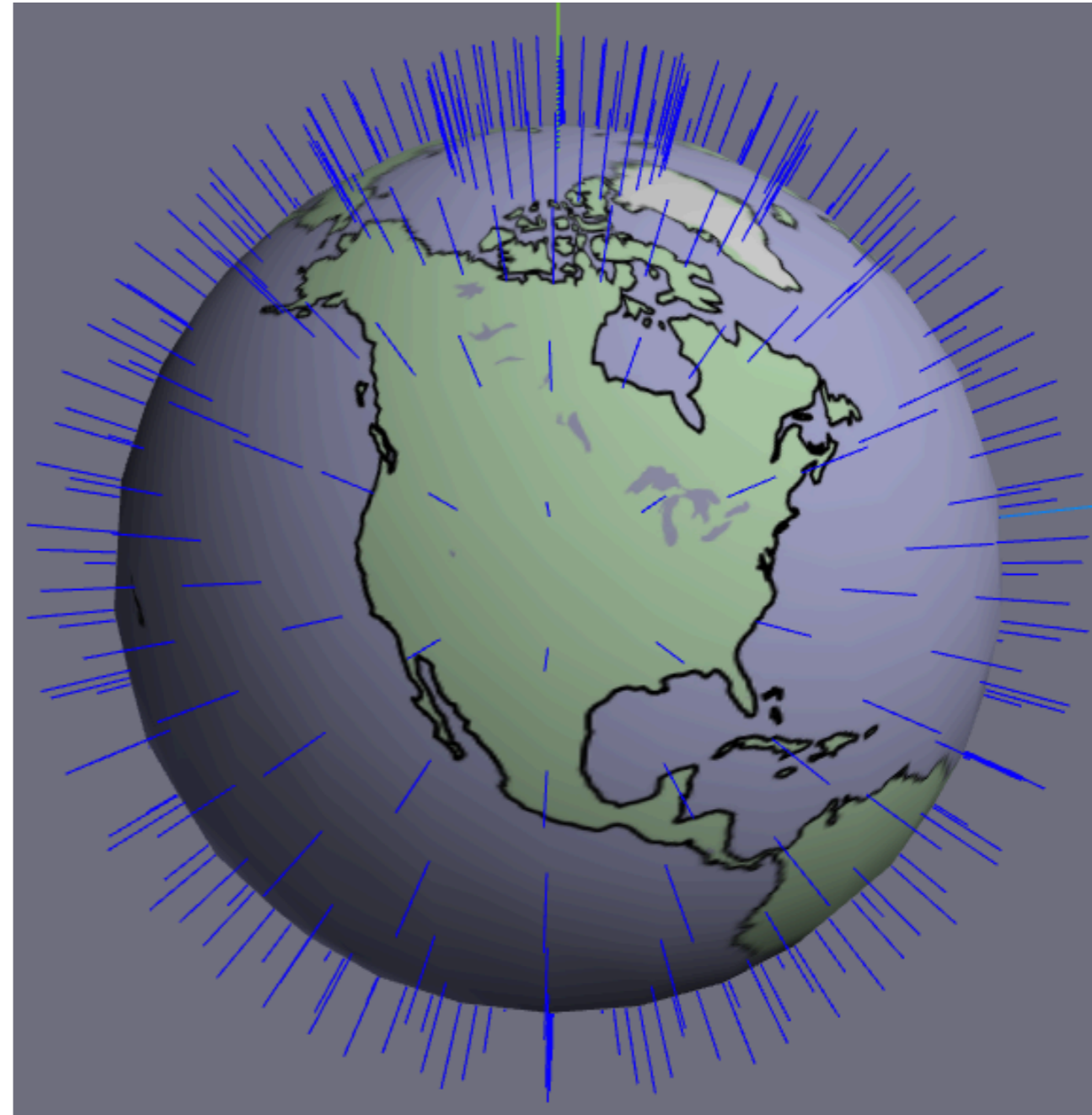


Computer Graphics



Lecture 5 (**LIVE**)

Implicit and Parametric Representations
Triangle Meshes: Texture Coordinates

Announcements

- HW0 due tonight
- A0 code due **Monday!**
 - Code is due Monday night - push to github and fill out the A0 Survey.
 - Submit your **artifact** to the A0 assignment on Canvas by Tuesday night

Goals

- Understand the distinction between **implicit** and **parametric** representations of geometric objects.
- Understand how **texture mapping** can be used to establish correspondence between a 2D texture and a 3D shape.
- Know how **texture coordinates** are interpreted in meshes and represented OBJ format.

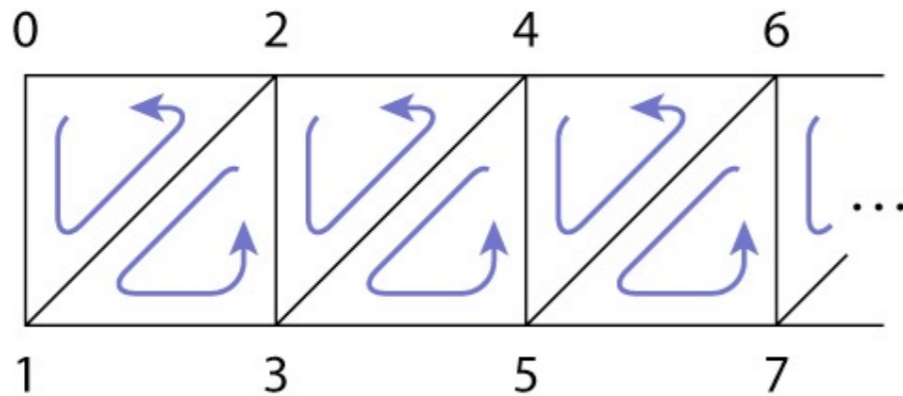
Logistics

- Same groups as last class (to the extent possible)
- If you didn't finish the L04 problems, start with those, then move onto the L05 problems.
- Same submission logistics as last time. One group member submits to Canvas:
 - The obj file for your textured pyramid
 - a photo/scan of solutions for P05 #1-2 on the sheet with (present) group members' names.

If you've finished L04 and L05 problems, revisit:

L03 Problems 3-4

Triangle Strip:



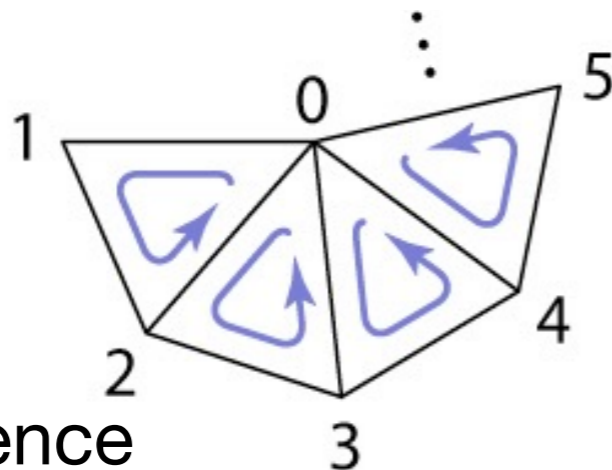
Vertex sequence

0, 1, 2, 3, 4, 5, 6, 7, ...

leads to triangle sequence:

(0 1 2), (2 1 3), (2 3 4), (4 3 5), ...

Triangle Fan:



Vertex sequence

0, 1, 2, 3, 4, 5, ...

leads to triangle sequence:

(0 1 2), (0 2 3), (0 3 4), (0 4 5), ...

