

Shading and Subdivision

- Use 3 viewport to display the icoshedron
- 3 Displaying Mode
 - Flat, Interpolate, Subdivision with interpolate shading
- The third viewport shows the icoshedron with adjustable subdivision depth
 - Subdivide once, twice or more...





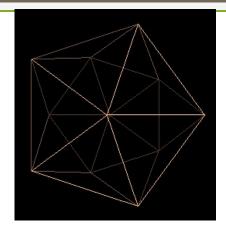
Subdivision

- Use keyboard to control
 - Subdivision depth (+ ,)
 - (apply to the third view port only)
 - recursive how many times
 - Rotate the icosahedron along its own center
 - o x-axis, y-axis, z-axis
 - Polygon mode
 - o Line, fill

Icosahedron

Approximating a Sphere: using Icosahedron
 Define the vertices

Defining the Faces



Index into vertex data array

Finish all function in Lab class get extra 5 points.

Submit your code, pdf, demo video before 6/15 midnight