Polygons

Definition

Take an ordered set of vertices (vertex = pixel in 3D), take a set of edges between these vertices, the polygon is then the space/area bounded by the vertices and the connecting edges. The most common polygon in 30 graphics is the triangle.

Polygon somps

A polygon soup is a group of unorganized triangles that require individual manipulation, that is, the triangles are not in melationship to one another. Problems: · waste of storage space, surfaces often don't require many polygons, we could share vertices · loss of semantics, "which part of the scene does this polygon belong to?" · leads to "brute force rendering"

· makes interaction with the model complex

Polygon meshes

Polygon meshes are linked groups of polygons and they are used to represent surfaces.

Advantages: · Semantics (of surfaces) are retained

- · Reduce storage space 'course vertices and edgs are shared
- · Helps with structuring the model so we can manipulate and interact with it

more easily.

Triangle strips Example:

can be defined vertices (inted of 3N!

data structure