Viewing Transformations



Projection: map 3D scene to 2D image



OpenGL Super Bible, 5th Ed.

Orthographic projection



Perspective projection





two-point perspective



Viewing transformations



 Map objects from their 3D locations to their positions in a 2D view



Decomposition of viewing transforms



Viewing transforms depend on: camera position and orientation, type of projection, field of view, image resolution

Viewport transform



(3,0)

(2,0)

(1,0)

(0)

(4,0)

x

Viewport transform



Orthographic Projection Transform

