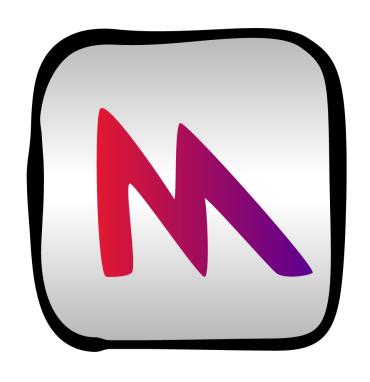
BEGINNING METAL

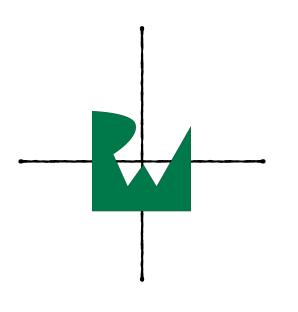


PART 7: MATRICES 2D TO 3D





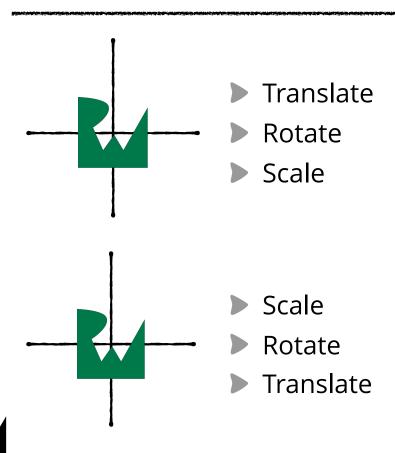
TRANSFORMS



- Translate
- Rotate
- Scale



TRANSFORM ORDER



MATRICES

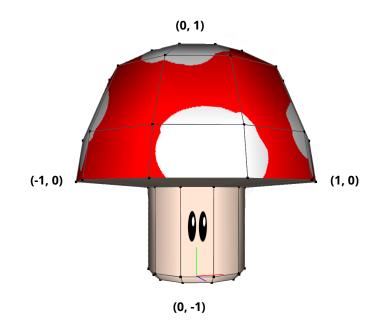
matrix_float4x4

m00	m01	m02	m03	m10	m11	m12	m13	m20	m21	m22	m23	m30	m31	m32	m33

			•
m00	m10	m20	m30
m01	m11	m21	m31
m02	m12	m22	m32
m03	m13	m23	m33
L			

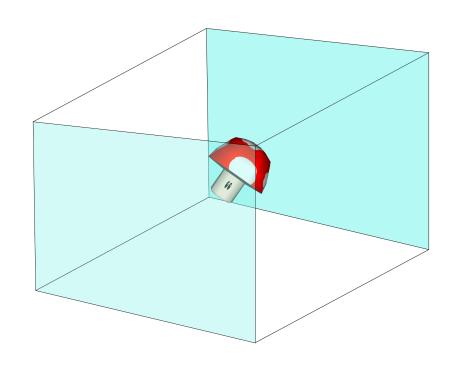


MODEL SPACE





WORLD SPACE





Model Matrix

CAMERA SPACE



View Matrix * Model Matrix

= Model View Matrix



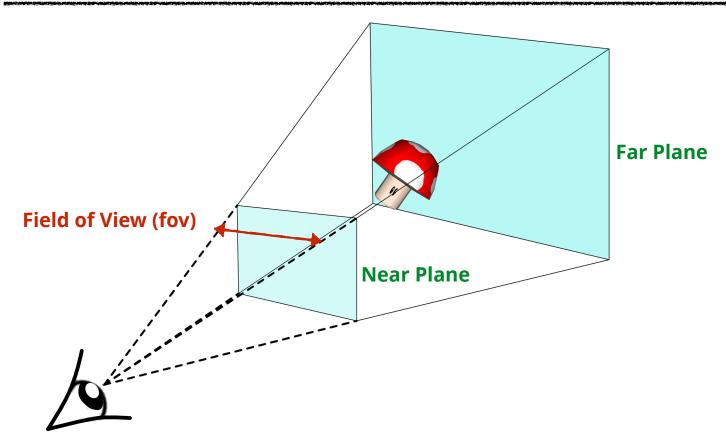
View Matrix

PROJECTION



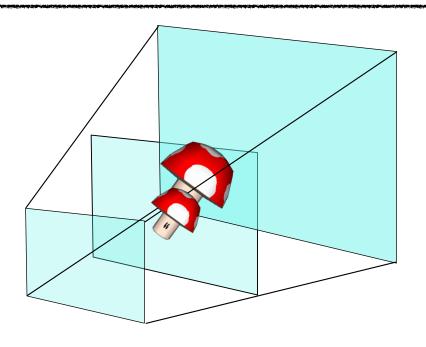


PROJECTION





PERSPECTIVE DIVISION



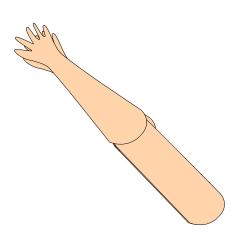


DEMO





CHALLENGE TIME!





CHALLENGE TIME!





