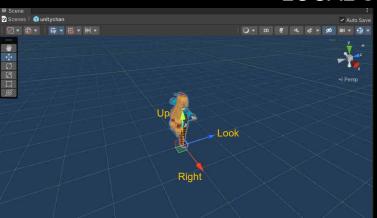
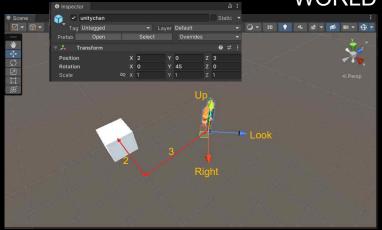
VIEW 변환 행렬

LOCAL SPACE

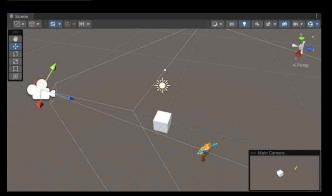


WORLD SPACE





VIEW (CAMERA, EYE) SPACE



VIEW MATRIX













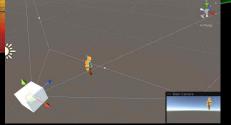








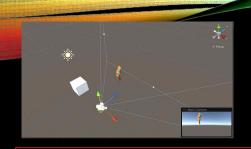
(B 좌표계 기준) A의 좌표





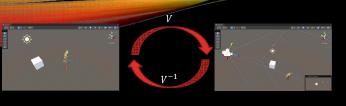
$$M = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ \hline 0 & 0 & 0 & 1 \end{bmatrix}$$

B 좌표계 기순) A의 좌표



Main Camera				
Tag MainCamera		Default		
▼ Transform			0 ₽	
			0	





VIEW MATRIX

$$\begin{aligned} & \lor = W_{cam}^{-1} = (RT)^{-1} = T^{-1} \cdot R^{-1} = T^{-1} \cdot R^{T} \\ & = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ -C_{x} & -C_{y} & -C_{z} & 1 \end{bmatrix} \begin{bmatrix} Right_{x} & Up_{x} & Look_{x} \\ Right_{y} & Up_{y} & Look_{y} \\ 0 & 0 & 0 \end{bmatrix} \\ & = \begin{bmatrix} Right_{x} & Up_{x} & Look_{x} & 0 \\ Right_{y} & Up_{y} & Look_{y} & 0 \\ Right_{y} & Up_{y} & Look_{y} & 0 \\ Right_{z} & Up_{z} & Look_{z} & 0 \\ -\vec{C} \cdot \overrightarrow{Right} & -\vec{C} \cdot \overrightarrow{Up} & -\vec{C} \cdot \overrightarrow{Look} & 1 \end{bmatrix} \end{aligned}$$

C+4

XMMATRIX XM_CALLCONV XMMatrixLookAtLH(

FXMVECTOR EyePosition, FXMVECTOR FocusPosition, FXMVECTOR UpDirection);

Parameters

EyePosition

Position of the camera.

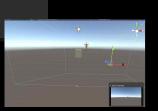
Position of the focal point

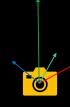
resident of the recar per

Up direction of the camera, typically < 0.0f, 1.0f, 0.0f >.

Return value

Returns a view matrix that transforms a point from world space into view space.





$$\begin{bmatrix} Right_x & Up_x & Look_x & 0 \\ Right_y & Up_y & Look_y & 0 \\ Right_z & Up_z & Look_z & 0 \\ -\vec{C} \cdot \overrightarrow{Right} & -\vec{C} \cdot \overrightarrow{Up} & -\vec{C} \cdot \overline{Look} & 1 \end{bmatrix}$$