

$$R_{\chi} = \begin{bmatrix} 1 & 0 & 0 \\ 0 & c(\frac{\pi}{2}) & -s(\frac{\pi}{2}) \\ 0 & s(\frac{\pi}{2}) & c(\frac{\pi}{2}) \end{bmatrix}$$

$$R_{y} = \begin{pmatrix} c(\frac{\pi}{2}) & o & s(\frac{\pi}{2}) \\ o & i & o \\ -s(\frac{\pi}{2}) & o & c(\frac{\pi}{2}) \end{pmatrix}$$

$$= \begin{pmatrix} o & o & 1 \end{pmatrix}$$

$$\begin{bmatrix}
0 & 0 & 1 \\
0 & 1 & 0 \\
-1 & 0 & 0
\end{bmatrix}$$

final frame

