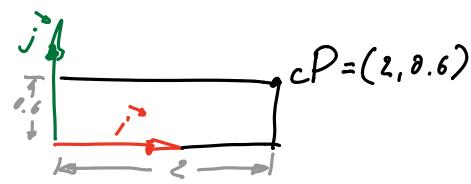
CONVERTING CAMERA TO WORLD

Point in camera coordinates:

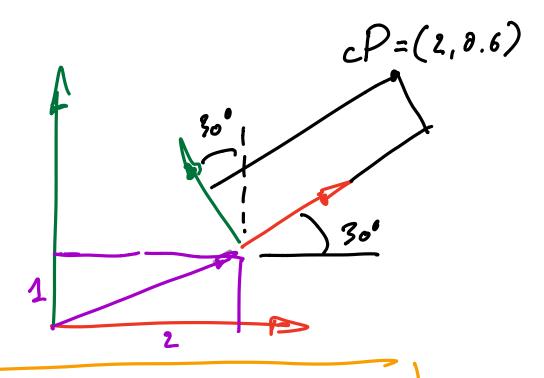


$$\begin{array}{c}
C = (2, 8.6) \\
C = (2, 8.6)
\end{array}$$

$$\omega P = \vec{t} + 2.0 \vec{i} + 0.6 \vec{j}$$

$$= \begin{bmatrix} \vec{t} \\ + \end{bmatrix} + \begin{bmatrix} \vec{i} \\ \vec{j} \end{bmatrix} \begin{bmatrix} 2.0 \\ 0.6 \end{bmatrix}$$

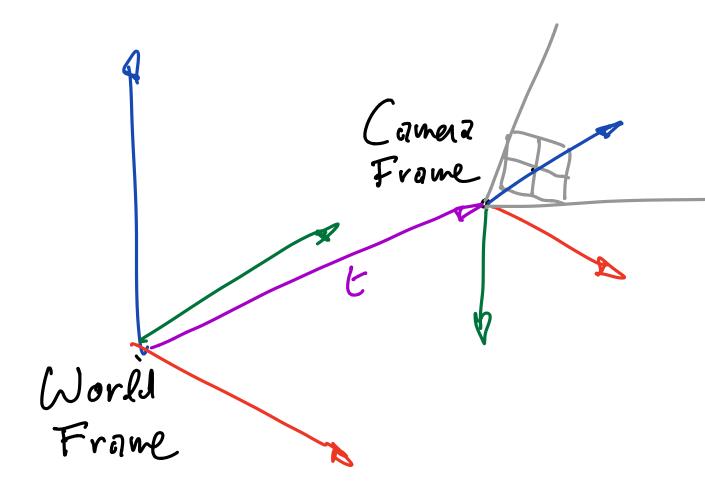
Numerical example



$$= \begin{bmatrix} 2 \\ 1 \end{bmatrix} + \begin{bmatrix} c30 & -530 \\ 530 & c30 \end{bmatrix} \begin{bmatrix} 2 \\ 0.6 \end{bmatrix}$$

$$\cos 30 = 1/2 = \begin{bmatrix} 2 + \sqrt{3} - 0.3 \\ 1 + 1 + 0.6 \sqrt{3} \end{bmatrix} = \begin{bmatrix} 3.43 \\ 3.04 \end{bmatrix}$$

30 Example



aP= t+aRc.cP

31 Example

Camera Frame

Camera Frame

$$Colored$$

Frame

 $Colored$
 $Colore$