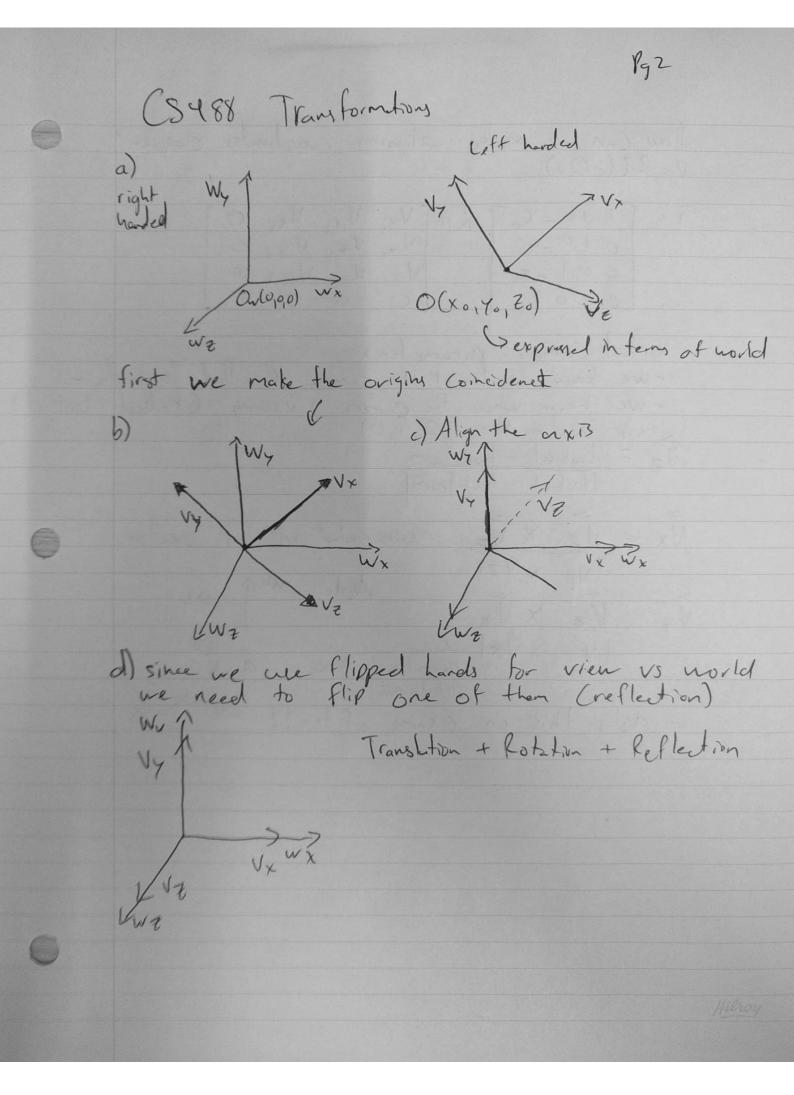


Change of Base W2 1 ((0,1,0) 0, 60,0,1 w, O2(Ox, O, 1), expressed in term of F, · To represent I relative to Fz, we use the same transformation required to super impose Fz on Fi · In this example to superimpose Fz to f, we translate fz by - Dx and Dy =0  $T = \begin{bmatrix} 1 & 0 & -0 & X \end{bmatrix} \quad P' = P \text{ relative to } f_2$   $\begin{bmatrix} 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix} \quad P' = TP = \begin{bmatrix} 1 & 0 & -0 & X \\ 0 & 1 & 0 \end{bmatrix} \begin{bmatrix} 0 \\ 1 \end{bmatrix} = \begin{bmatrix} -0 & X \\ 1 \end{bmatrix}$ - Recall the graphics pipeline. point p' = p. (J.M.p Projectul modelling world to view In order to transform from world to viewing we superimpose the viewing frame (Vx, Vy, Vz, Q) onto the world frame (Wx, Wy, WZ, Ow).



How can we make aligning coordinates easie? V= R.T(-Ov) - Virtual Camera parameters -we know location of the corner (called look from) - we know where the pamera is viewing (Kalled look-at) Uz = lookat - look from [lookat - look from] Vx = Vp X Vz > cons produt with up vector

| Vp x Vz|
| Note: axb 1 > b Normalize? bxa = - dxb - asks this on exams often!! & \*

