Camera Matrices

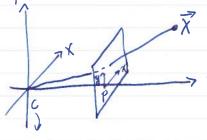
平州

牧牛

Tw EP3: comera coordinates in world frame

$$\mathcal{M}_{\omega}^{c} : \begin{pmatrix} \mathcal{R} & -\mathcal{R}\widetilde{C}\omega \\ 0 & 1 \end{pmatrix} = 7 \mathcal{M}_{\omega}^{\omega} = (\mathcal{M}_{\omega}^{c})^{-1} = \begin{pmatrix} \mathcal{R}^{T} & \widetilde{C}\omega \\ 0 & 1 \end{pmatrix}$$

Internsics world- 90 - cam



$$\begin{pmatrix} \chi \\ z \\ \end{pmatrix} \longrightarrow \begin{pmatrix} f \chi \\ f \chi \end{pmatrix}$$

center

Note

$$Q^{T} = \begin{pmatrix} \hat{\chi}_{\omega}^{cam} & \hat{\chi}_{\omega}^{cam} & \hat{\chi}_{\omega}^{cam} \\ \hat{\chi}_{\omega}^{cam} & \hat{\chi}_{\omega}^{cam} & \hat{\chi}_{\omega}^{cam} \end{pmatrix}$$

Let M. Blender & R313 S. 8.

Cw = Moponal & Blender

Blender

Blender

Openal

Hender

The Camero 11 2 not the came

t LOOSE LEAF L1201 6mm×36lines maruma

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DATE

Another Formulation

Note X OpenGL, Comera = X Bleder, Coumora

X OpenGL, World = Mg, w X B, w

XO, C = (R +)O, w XO, w XB, w

= (R +)O, w MB, w XB, w

Also XB, C = (R +)B, w XB, w

-7 (R +)O, w MB, w = (R +)B, w

(R +)O, w = (R +)B, w MB, w

(R +)O, w = (R +)B, w MB, w

(R +)O, w = (R +)B, w MB, w

Blender (Blender: z-ug) Cameras 125° solution on the along is by y conserts object matrix - world = Looking at - 2' direction 0 Intribaics: Image Plane cemera lens = focal length (in mm) Camera sensor_width (in mm) Import OBJ to Blender "Blender uses y forward, & up; default for obj: y up. -z forward upon importiv