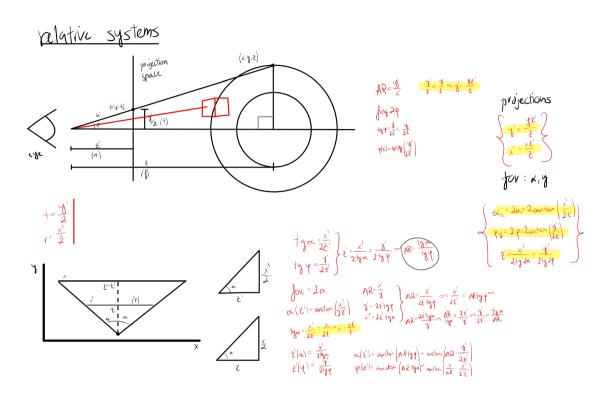
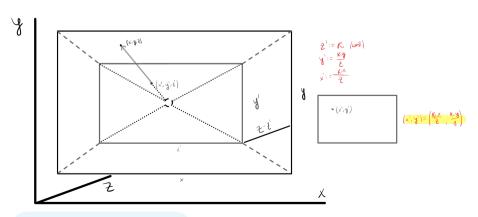
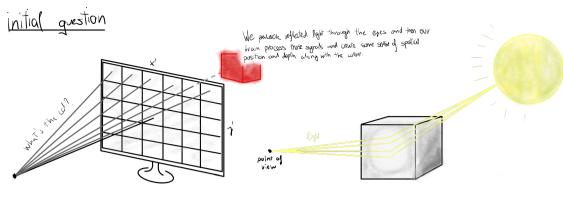
Projections





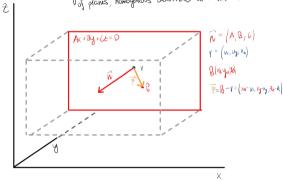


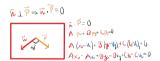
pixel 0-255 196 (256 pasible wors)

In the adjust with ne try to expressed objects by compiling or animously positions and perceptive and then showing that to the society with its corresponding vg value

planes

first, let's take a look of the mathematical basis of planes, homogeneous couldinates and mathics.





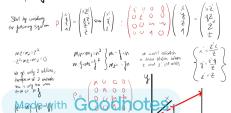
- Aux-Buz- (14+A6+ Byo+ C6=0 CN+ BX+ CX0 = AW+ BN+ CH Au + By + (4= - D

homogeneous coordinate system

allows matrix matipliphication (rotations, translature,...) just say adding a new component w

(w=1)

projection matrix



matrius





 $\left(= \left(\frac{x^3 - z^4}{x^3 - z^4} \right) \right) \times = r \cos \theta \times x^4 = r \cos (\theta - \alpha) \left\{ \cos (\theta - \alpha) + \sin \theta \sin \alpha + \sin \theta \sin \alpha \right\} \times x^2 = r \sin (\theta - \alpha) \left\{ \cos (\theta - \alpha) + \sin \theta \cos \alpha \right\} \times x^2 = r \sin \alpha - y \cos \alpha$

 $R_{y} = \begin{pmatrix} \cos \theta & \cos \theta & \sin \theta \\ 0 & 0 & \sigma \\ -\sin \theta & \cos \theta \end{pmatrix} \qquad R_{x} = \begin{pmatrix} 1 & 0 & 0 \\ 0 & \cos \theta & -\sin \theta \\ -\sin \theta & \cos \theta \end{pmatrix}$

 $\mathsf{K}^{\mathsf{S}} \cdot \begin{pmatrix} \hat{\mathbf{A}} \\ \hat{\mathbf{A}} \end{pmatrix} = \begin{pmatrix} \hat{\mathbf{A}}_{i} \\ \hat{\mathbf{A}}_{i} \end{pmatrix}$

Translation matrix

scale matrix