



We also need to footor in movement in ∞ and y, where further away changes in ∞ are smaller proportionally to the disen Z.

 $\begin{bmatrix} x, y, z \end{bmatrix} \rightarrow \begin{bmatrix} \frac{h}{w} + x & \frac{fy}{z}, & \frac{7}{2}x \frac{2}{5}AR \\ \hline \frac{7}{2}x \frac{7}{2}x$

To supmarize, f. hadles how objects in distance appears to converge into middle.

Tactors how or and y in objects will get close rogether, i.e. objects get small in distance.

IMPLEMENTATION

oc, y, z of Shop coordinans as between 0 and 1.

ZFAR = 1000 ZNEAR = 0.1 0=900 (For angle)

 $\frac{1}{\tan\left(\frac{90}{2}\times0.017\right)} = 0.785 \quad \text{(FoV opp Length)}$ 10.8401ANS

Ly First we perform the following operations on each component of each vertice:

New
$$x = (x \times x)/z$$

New $y = (y \times y)/z$
New $z = (z \times z_{AR}) - (z_{NEAR} z_{AR})$
 $(z_{FAR} - z_{NEAR}) - (z_{FAR} - z_{NEAR})$

1 we need to scale to between screen coordinates.

divide by 2 to get out value terven 0 ad 1.0 km

Mers, we multiply or by screen with, y we multiply by screen height and Z we leave alone. Ly we now need to stage object back to a as origin is correctly as (0,0) m som as it comer . .. we are correctly inside the cube. We translaw before any conversion from 30-20 wordinates, by simply adding to the 2 component . I each vertice of each triaght