

per esterni

$$A = \begin{bmatrix} n & -n^T \\ 0 & 1 \end{bmatrix}$$

$$H = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

$$L = \begin{bmatrix} f & 0 & x_0 \\ 0 & f & y_0 \\ 0 & 0 & 1 \end{bmatrix}$$

per Interni

$$P = \begin{bmatrix} x \\ y \\ z \end{bmatrix}$$

coordinate omogenee

$$p(x_i, y_i)$$

$$P \rightarrow P^* \rightarrow p$$

$$P^* = AP = \begin{bmatrix} m_{11}(x-x_0) + m_{12}(y-y_0) + m_{13}(z-z_0) \\ m_{21} \\ m_{31} \\ \vdots \end{bmatrix} \begin{bmatrix} x \\ y \\ z \\ 1 \end{bmatrix}$$

coordinate omogenee

$$P^{**} = H P^* = \begin{bmatrix} x^* \\ y^* \\ z^* \end{bmatrix}$$

In coordinate omogenee

$$p = K P^{**} = \begin{bmatrix} f x^* + x_0 z^* \\ f y^* + y_0 z^* \\ z^* \end{bmatrix} = \begin{bmatrix} x \\ y \\ w \end{bmatrix}$$

$$P_{\text{value}} = \frac{f(x^*) + \gamma_0 x^*}{f(y^*) + \gamma_0 y^*} \approx \left[ \frac{\frac{f(x^*)}{x^*} + \gamma_0}{\frac{f(y^*)}{y^*} + \gamma_0} \right]$$

$$P = HP$$







































