

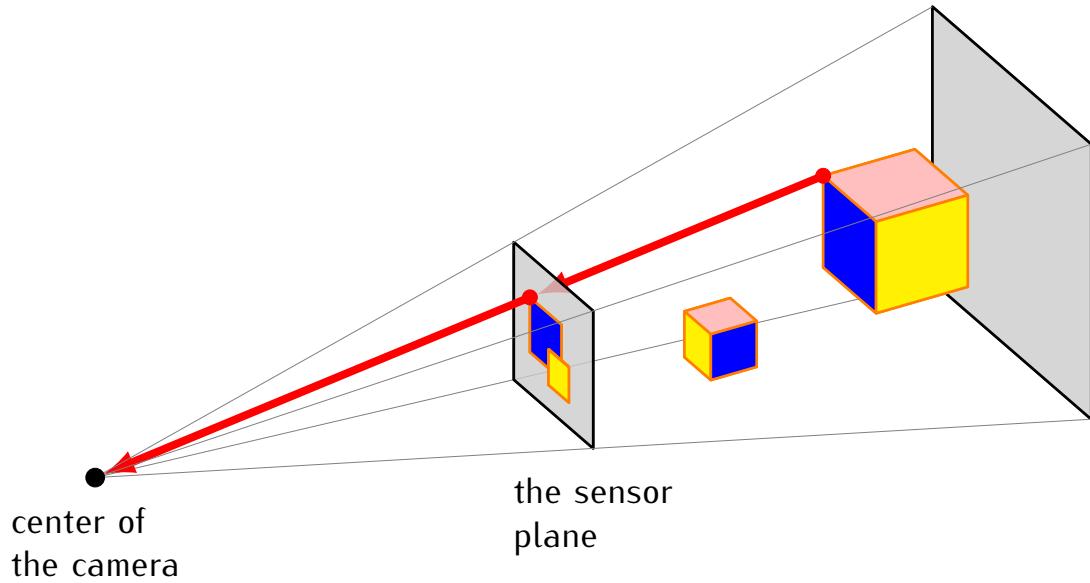
What we want:



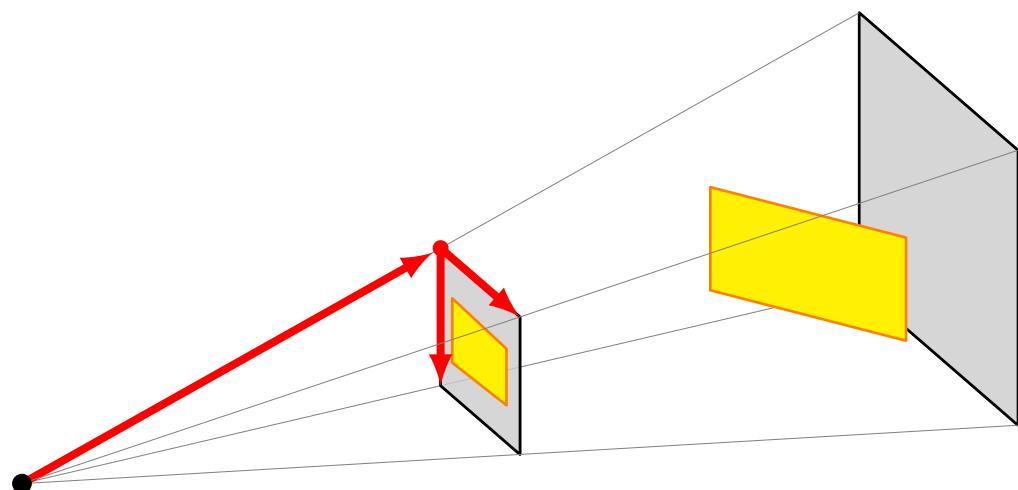
What we have:

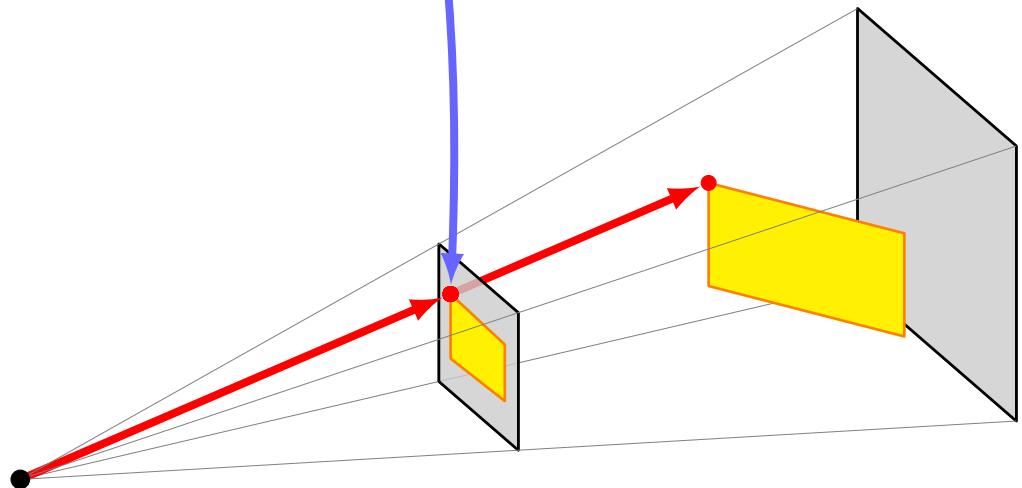


Image formation in a camera

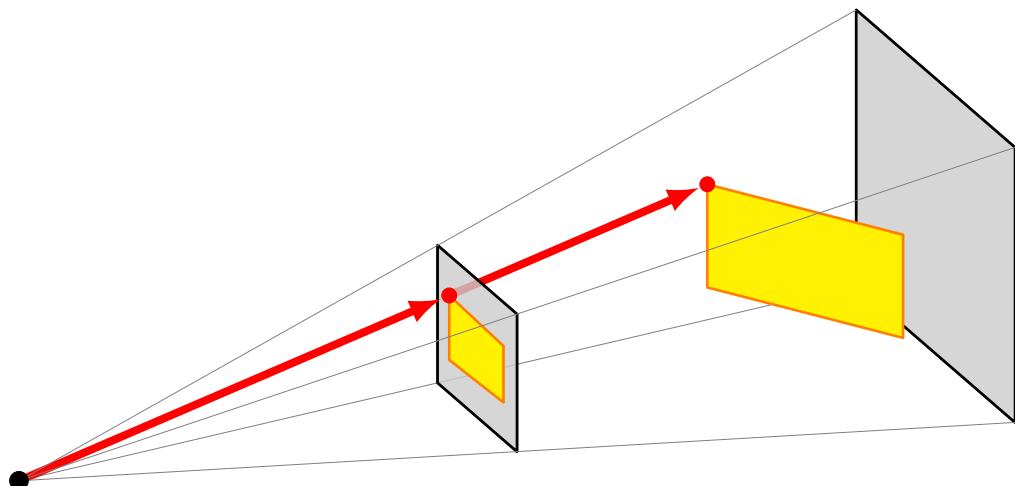
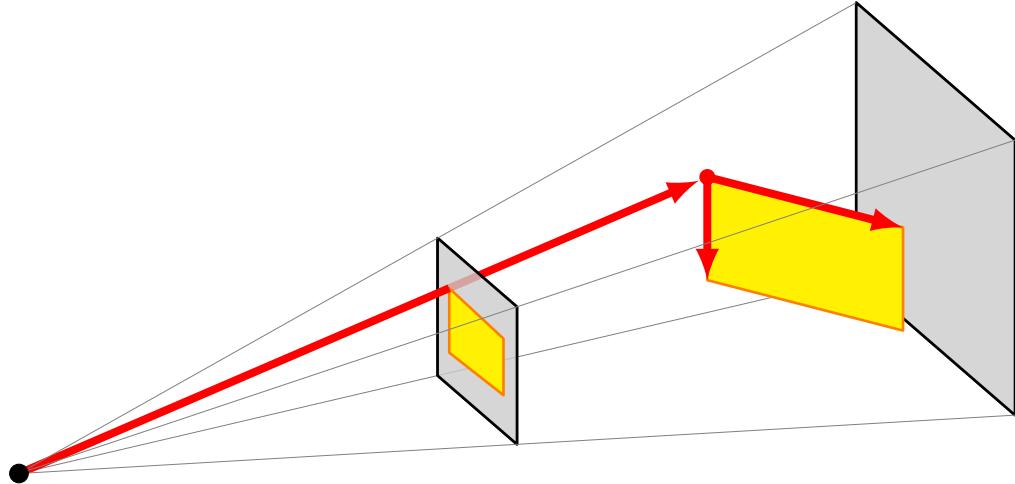


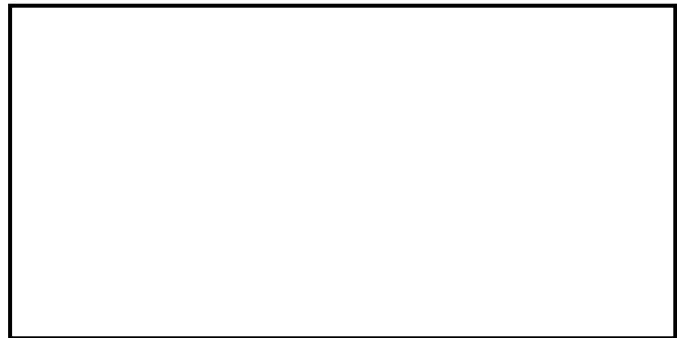
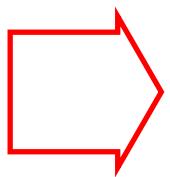
The camera coordinate system \mathcal{C}





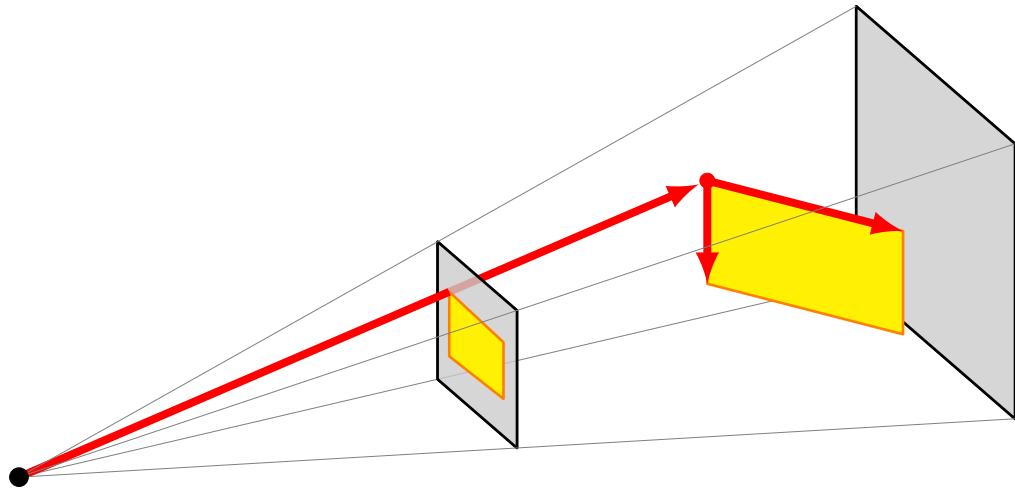
The mural coordinate system \mathcal{M}





From mural coordinates to camera coordinates

$$P_{\mathcal{C} \leftarrow \mathcal{M}} = [[\mathbf{m}_1]_{\mathcal{C}} \; [\mathbf{m}_2]_{\mathcal{C}} \; [\mathbf{m}_3]_{\mathcal{C}}]$$



Problem: What are the numbers a , b , c ?