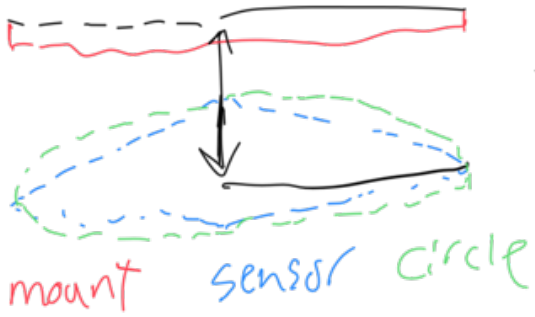
mount-space

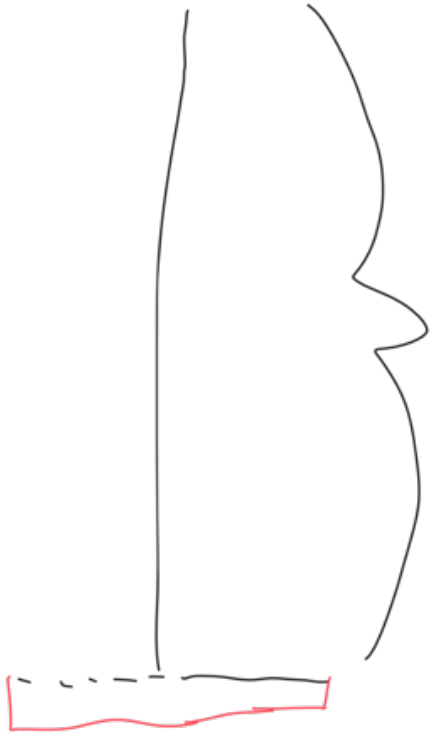


mount radius $= m_r$

flange distance $d_f = X\, m_r$
$X \in \mathbb{R}$

image circle radius $C_r = X\, m_r$
$X \in \mathbb{R}$

lens-space

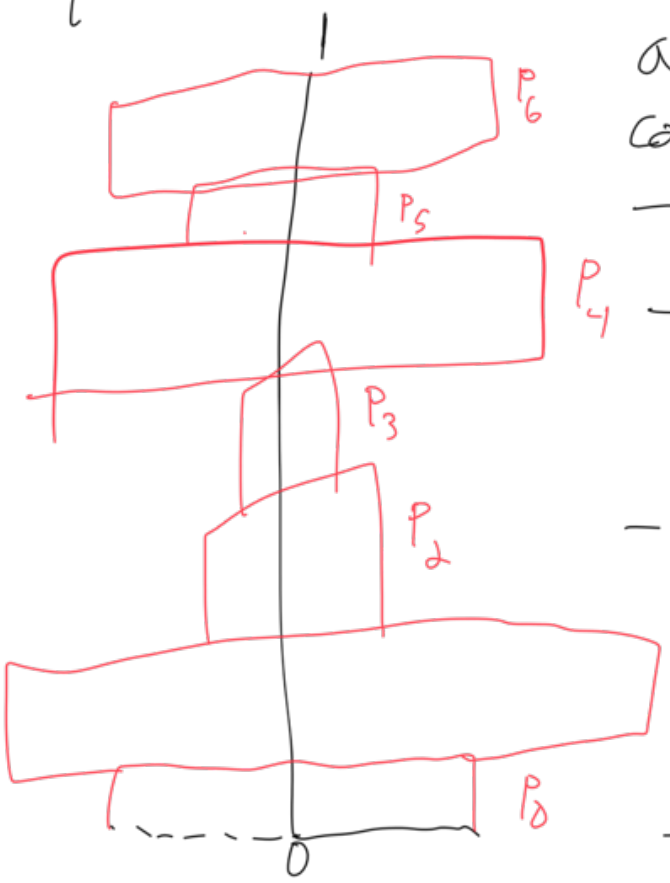


lens length $L = X\, m_r$
$X \in \mathbb{R}$

width of lens body not constrained

(more on this later)

position-space

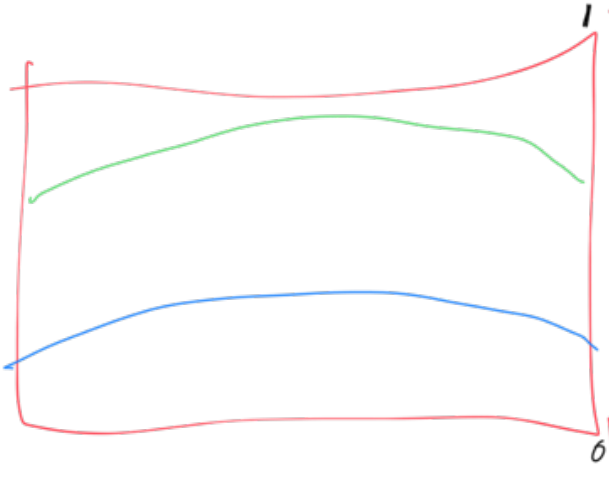


lens bounding box

- "positions" are space allocations where each element could be
- p_n's front is p_{n+1}'s back
- positions along length are $p_n = xL,\ x \in (0, 1)$
- width of allocation $w_n = xm_r,\ x \in \mathbb{R}$
- position of front is 1
- width of back is m_r

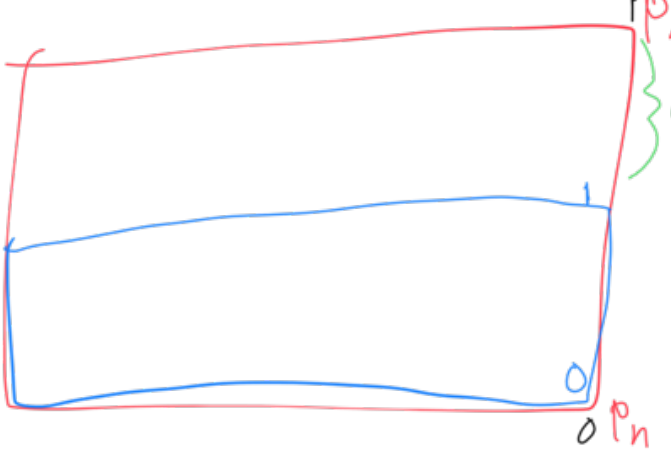
element-space

fixed element



front must always be greater than back

moving element



distance $d \in (0,1)$

this is a smaller fixed position block, which holds the lens