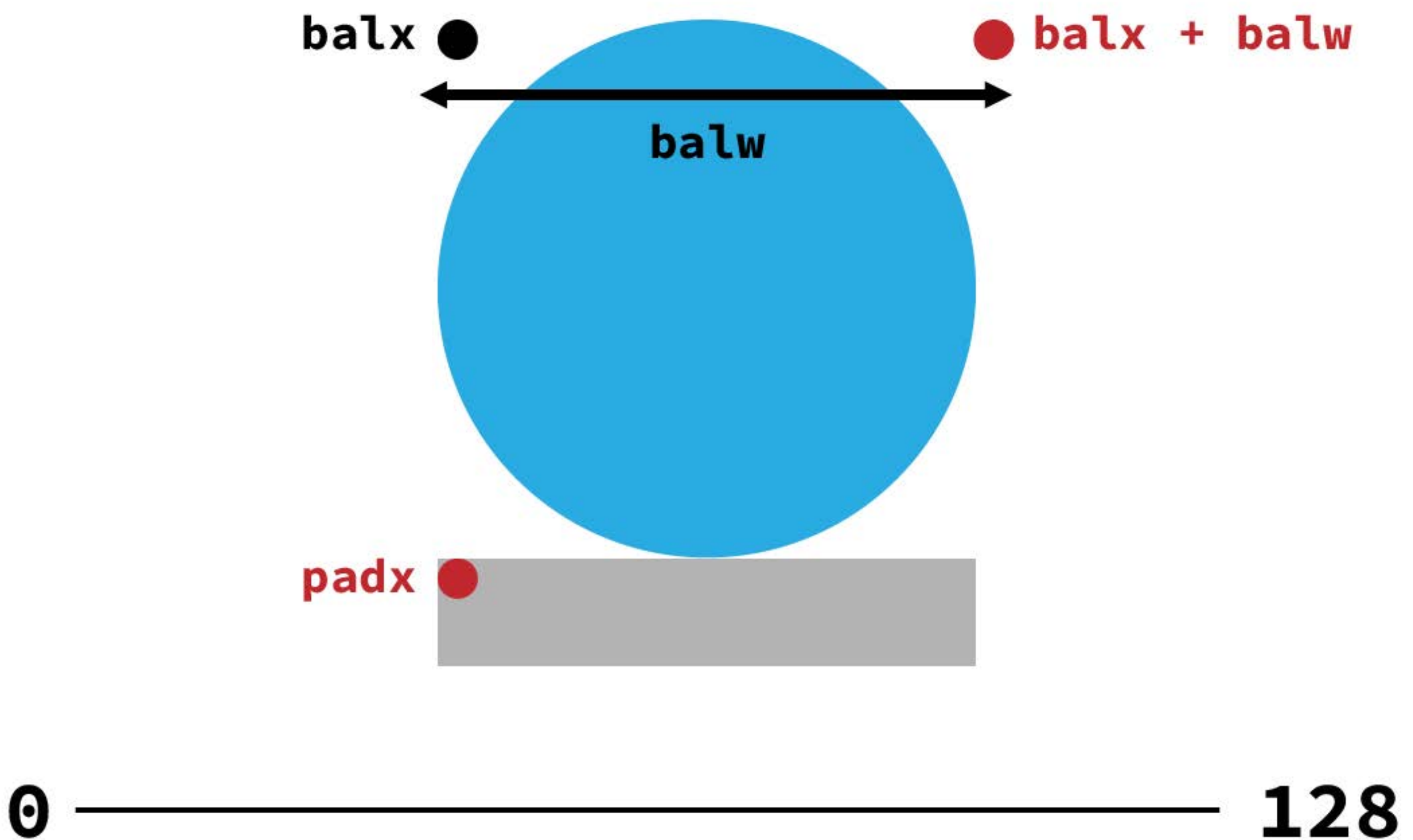
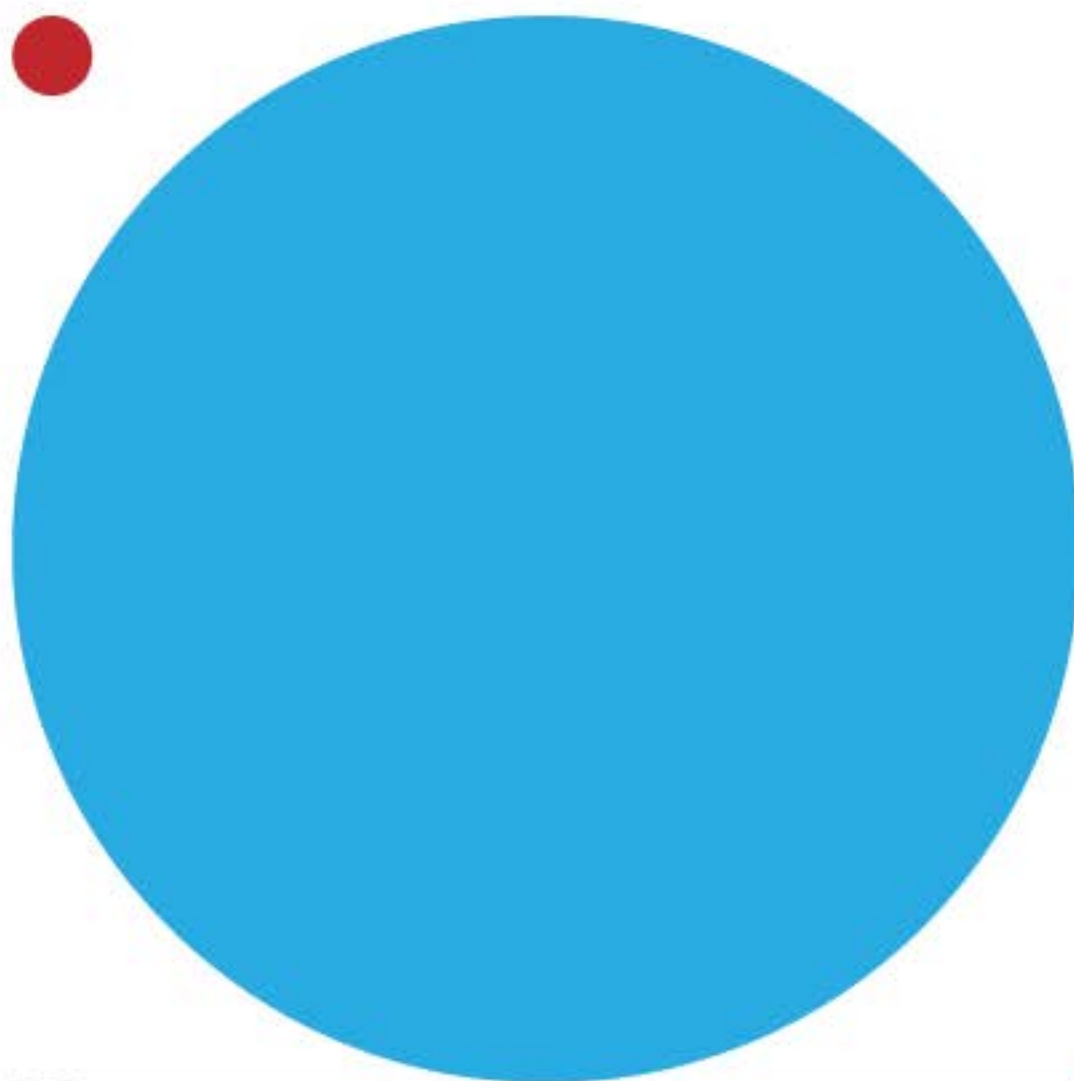


$$ba1x + ba1w \geq padx$$

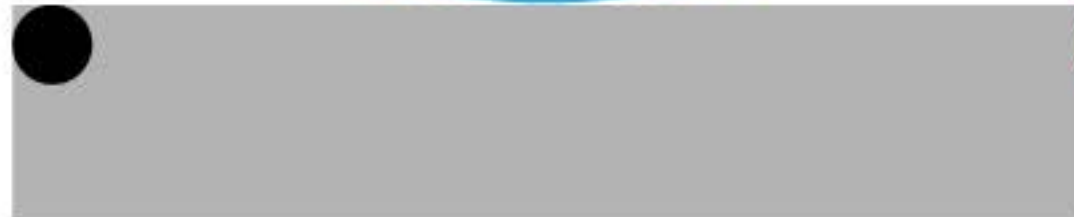


$$\text{balx} \leq \text{padx} + \text{padw}$$

**balx** ●



**padx** ●



● **padx + padw**



**padw**

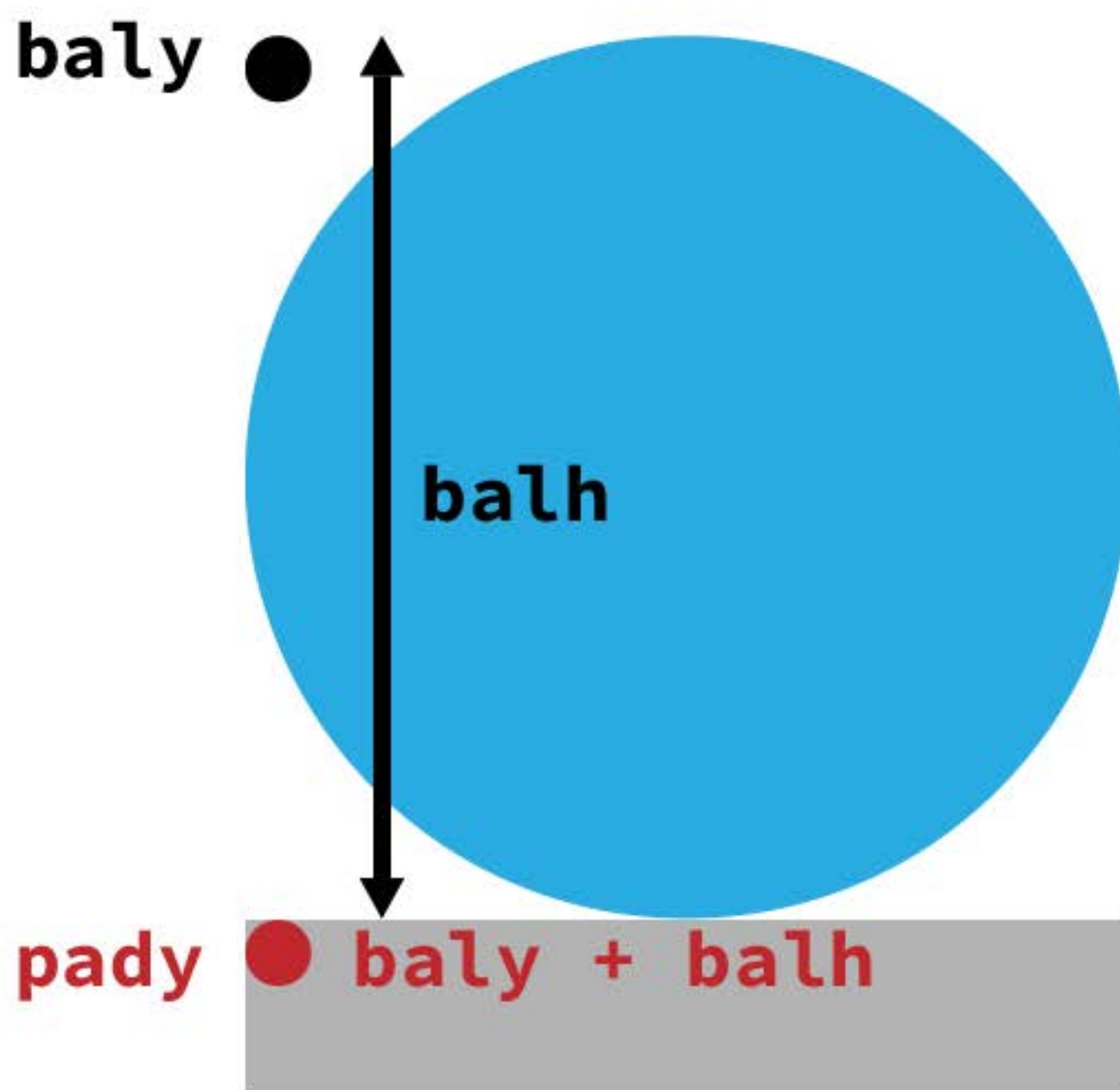
**0**



**128**

0

$$baly + balh \geq pady$$

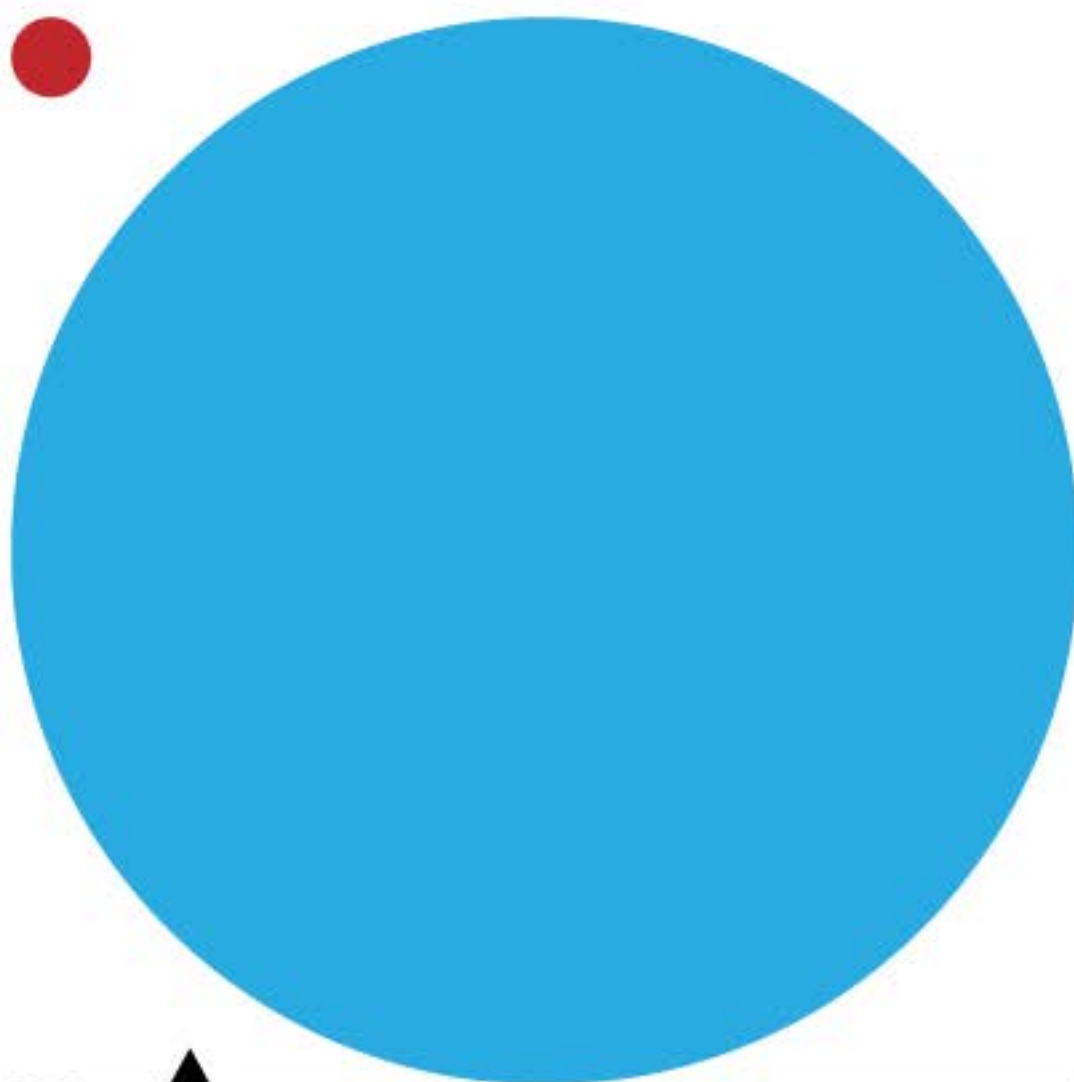


128

0

$$\text{baly} \leq \text{pady} + \text{padh}$$

baly ●



pady ●



padh

pady + padh ●

128



**if  $ba_lx + ba_lw \geq padx$   
and  $ba_lx \leq padx + padw$   
and  $ba_ly + ba_lh \geq pady$   
and  $ba_ly \leq pady + padh$   
*then there's collision!***

**$ba_lx, ba_ly$  ●**

