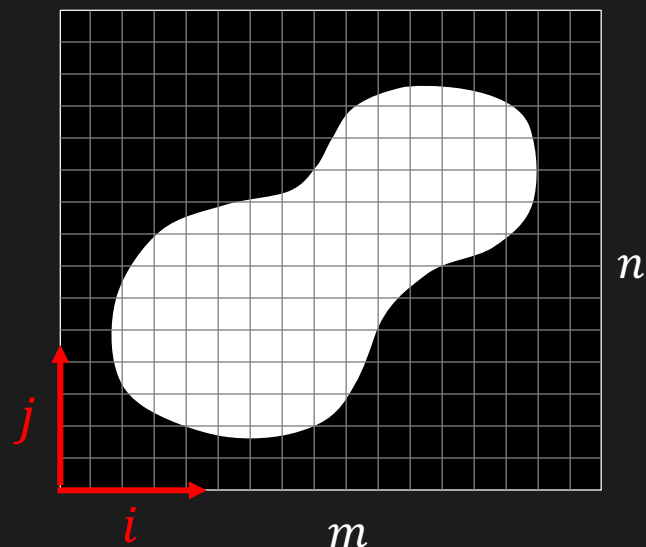


# Discrete Binary Images

$b_{ij}$ : Value at cell (pixel) in **column**  $i$  and **row**  $j$ . Assume pixel area = 1.

Area: 
$$A = \sum_{i=1}^n \sum_{j=1}^m b_{ij}$$



Position: Center of Area (First Moment)

$$\bar{x} = \frac{1}{A} \sum_{i=1}^n \sum_{j=1}^m i b_{ij}$$

$$\bar{y} = \frac{1}{A} \sum_{i=1}^n \sum_{j=1}^m j b_{ij}$$