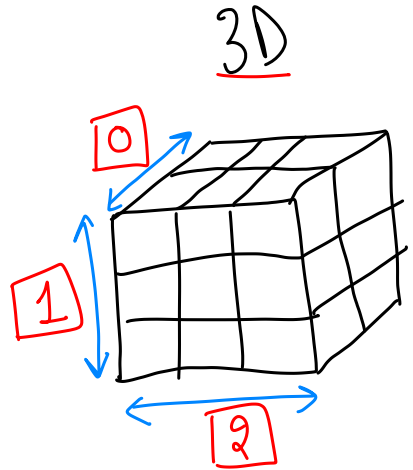
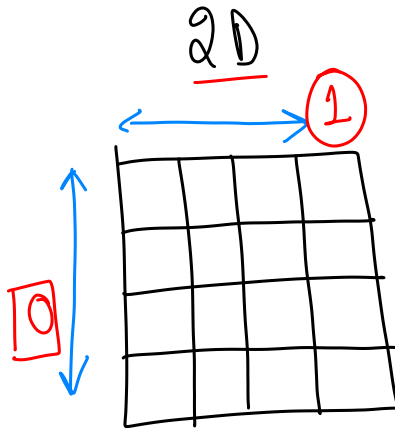
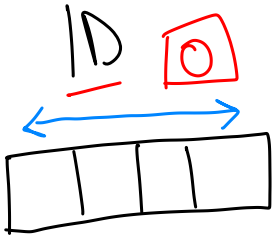


NUMPY -3

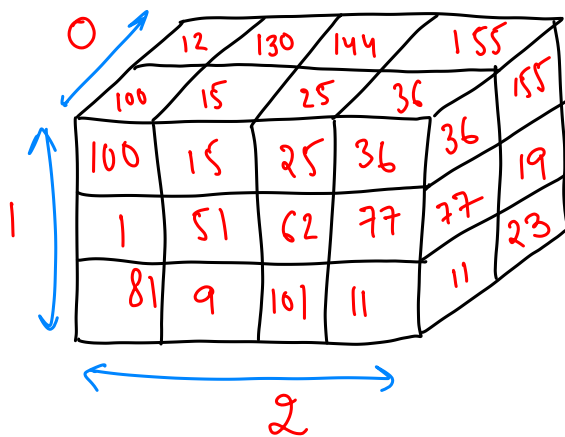


$\text{shape}(c,)$
 $\text{dim} = 1$
 $\text{Axis} = \begin{pmatrix} 0 \\ -1 \end{pmatrix}$

$\text{shape}(r, c)$
 $\text{dim} = 2$
 $\text{Axis} = \begin{pmatrix} 0 & 1 \\ 0 & 1 \\ -2 & -1 \end{pmatrix}$

$\text{shape}(d, r, c)$
 $\text{dim} = 3$
 $\text{Axis} = \begin{pmatrix} 0 & 1 & 2 \\ 0 & 1 & 2 \\ -3 & -2 & -1 \end{pmatrix}$

$(2, 3, 4)$ (d, r, c)



$a.shape = (2, 3, 4)$

```
a = array([[100, 15, 25, 36],  
          [ 1, 51, 62, 77],  
          [ 81,  9, 101, 11]])
```

```
[[ 12, 130, 144, 155],  
 [196, 17,  8, 19],  
 [ 2, 21, 225, 23]])
```

numpy (d, r, c)
(564, 564, 3) ←

matplotlib (r, c, d)

