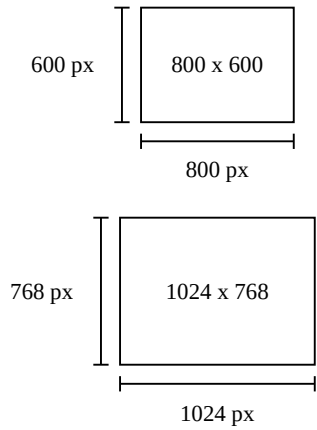
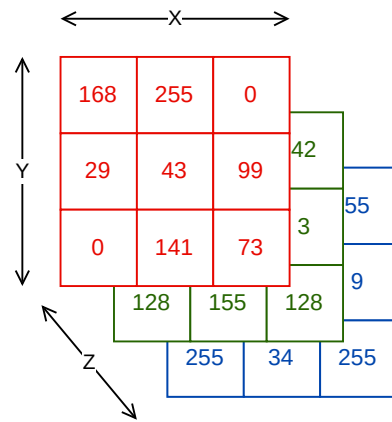


Resolution



RGB - 3 channels



`img[2, 2, 0] → 73`

`img[2, 2, 1] → 128`

`img[2, 2, 2] → 255`

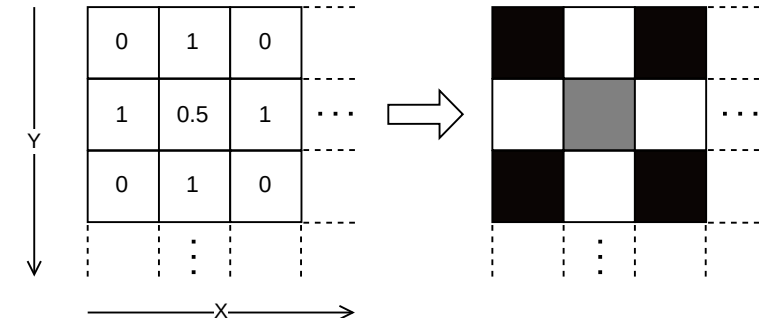
`img[2, 0] → (0, 128, 255)`

IMAGE PROCESSING WITH PYTHON



Available here:
<https://datacarpentry.org/image-processing/>

Grayscale - Single Channel



0 = black
1 = white
0.5 = gray } gray colormap

256 values for intensity
range [0-255]

010101010101010101010101

8 bits 16 bits 24 bits → 1 RGB pixel

Example:

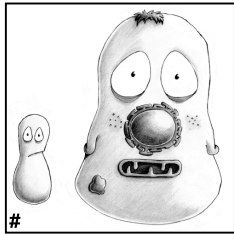
14 MP Camera

$$14,000,000 \cdot 24 = 3.36 \cdot 10^8 \text{ bits}$$

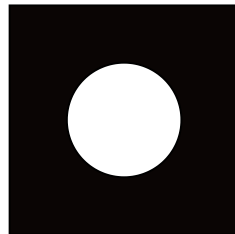
$$3.36 \cdot 10^8 \div 8 \div 1024 \div 1024 \approx 40 \text{ MB}$$

Masks

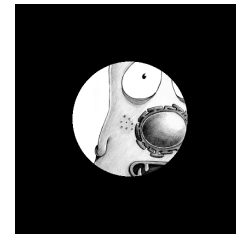
Image



Mask



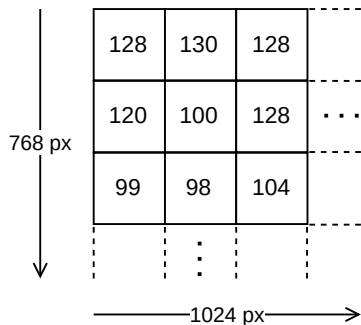
Masked Image



*

=

Image



Mask

*

=

Masked Image

