Image

first pixel   width

(0,0)

Height

last pixel.

Unit of Image is Pixel.

each Pixel is made up of color channels.

pixel →   mostly
} 3 color
   channels
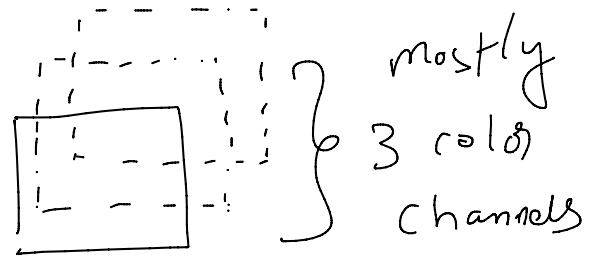
Popular color channels

1) RGB ——→ PIL, matplotlib

2) BGR ——→ Default in
            OpenCV

3) CMYK

4) HSV (Hue Saturation Value)

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5) Grayscale

6) RGBA (RGB $\textcircled{A}$ $\rightarrow$ Alpha channel
$\downarrow$
adds transparency)

7) BGRA

Aspect Ratio = $\dfrac{width}{Height}$

range of each color channel

for RGB, BGR, CMYK $\Big\}$ $\rightarrow$ 0-255

HSV $\rightarrow$ H range $\rightarrow$ 0-360 (Degrees)

S '' $\rightarrow$ 0-100 (Percentage)

V '' 0-100 (Percentage)

Video

fps $\Rightarrow$ frames per second
$\downarrow$
Images in Sequence.

OpenCV

Tensorflow