

- Every image contains of some pixels
- Every pixel has a value according to its color
- The channel is a matrix for the pixel has specific number of rows and columns according to the size of photo

If Black and White image:

The pixel has one channel.

Each cell [pixel] in channel has a value from 0 to 255 this value is according to color of the pixel.

If RGB image:

The pixel has three channels.

Each cell [pixel] in channel has a value from 0 to 255 this value is according to color of the pixel but here there is three channels, this mean that each pixel has 3 values each one of them from 0 to 255.

This mixing of values which give the difference colors of pixel, but in black and white images one channel give only a degree in range from black to white

