­­­­­­­what is gray scale

What is rgb: extract channels in r g and b channels

Black and white

Preprocessing

1. Image cropping
2. Image resizing
3. Smoothing filters
4. Image enhancement
5. Noise removal filters
6. Median, mean, weighted average
7. Transformation

<https://towardsdatascience.com/image-filters-in-python-26ee938e57d2>

Segmentation

1. Edge based segmentation
2. Threshold based segmentation
3. Region based segmentation
4. Cluster based segmentation
5. Watershed segmentation

Feature extraction

There are two types of noises that can be present in an image eg. Speckle noise and salt-and-pepper noise.