

arithmetic operations

- 1. Addition**
- 2. Subtraction**
- 3. Blending**

Addition

Arithmetic Operations

limits

- Range of pixel values [0 to 255]

$250 + 10 = 260$  **255**

`cv2.add(img,M)`

next 

Addition Operation in an Image

Subtraction

Arithmetic Operations

limits

- Range of pixel values [0 to 255]

40 - 50 = -10



0

```
cv2.subtract(img,M)
```

next 

Subtraction Operation in an Image

Blending

image blending

- Image addition with different weights.
 - Feeling of blending or transparency.

$$\textit{blend_image} = \alpha * \textit{img1} + \beta * \textit{img2} + \gamma$$

$$\alpha, \beta = [0 \text{ to } 1]$$

γ = pixel value added to image

cv2.addWeighted()

next 

Blending Image in OpenCV python