

"Border for Images"

`img = cv2.imread("...")`

`replicate = cv2.copyMakeBorder(img, 10, 10, 10, 10, cv2.BORDER_REPLICATE)`

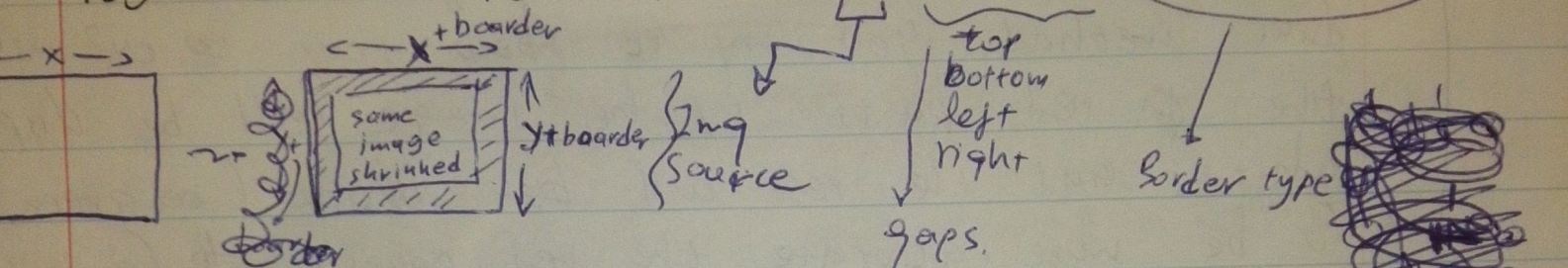


Image addition.

`cv2.add(img1, img2)`

same depth and type, or second `img2` can be a scalar value. Adds color, doesn't add black. Black is seen as white paper.

Image blending

Transition between one image to another.

Images are added as per the equation below:

$$g(x) = (1-\alpha) f_0(x) + \alpha \cdot f_1(x), \text{ where } 0 \leq \alpha \leq 1$$

where $f_0(x) = \text{img1}$, $f_1(x) = \text{img2}$

$$\Rightarrow \text{dst} = \alpha \cdot \text{img1} + \beta \cdot \text{img2} + \gamma$$

`cv2.addWeighted(img1, a, img2, b, 0) # $\gamma = 0$`

`img1` and `img2` must be of the same size.

(8)