OpenCV Imgproc Module Worksheet

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Activity One

(a) Draw a red, 100 × 100 px rectangle.

(b) Draw the contour of the rectangle as a blue outline with a line thickness of 2.

Activity Two

(a) Create a random kernel and apply it to an image.

(b) Apply the following kernel to an image. Describe what it does to the image.

$$K = \begin{bmatrix} 0 & -1 & 0 \\ -1 & 8 & -1 \\ 0 & -1 & 0 \end{bmatrix}$$

Activity Three

(a) Compute the affine transformation, given the following pairs of points:

$$x = [(0,0),(5,0),(0,5)]$$
$$y = [(0,0),(25,0),(0,25)]$$