

Mini project #1 Live sketch using webcam

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In [ ]: import cv2
import numpy as np

#define a function
def sketch(image):
    # convert image to grayscale
    img_gray = cv2.cvtColor(image, cv2.COLOR_BGR2GRAY)

    # clean up image uysing Gaussian Blur
    img_gray_blur = cv2.GaussianBlur(img_gray, (5,5),0)

    # extract edges
    canny_edges = cv2.Canny(img_gray_blur, 50, 100)

    # Do an invert binarize image
    ret, mask = cv2.threshold(canny_edges, 100, 255, cv2.THRESH_BINARY_INV)

    return canny_edges

image = cv2.imread('gambar/star01.jpeg')
template = cv2.resize(image, (300, 600))
# Using webcam
cap =cv2.VideoCapture(0)
while True:
    ret, frame = cap.read()
    cv2.imshow('My live sketch', sketch(frame), template)
    if cv2.waitKey(1) == 13: # 13 is the Enter Key
        break

# Release camera and close windows
cap.release()
cv2.destroyAllWindows()
```