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import cv2

img_location = input('Enter the image location: ')
filename = input('Enter the image name (should be in jpg extension): ')
img = cv2.imread(img_location + filename)

original_blur = cv2.GaussianBlur(img, (21, 21), 0)
gray_image = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)

inverted_gray_image = 255 - gray_image
blurred_image = cv2.GaussianBlur(inverted_gray_image, (21, 21), 0)
inverted_blurred_image = 255 - blurred_image
pencil_sketch_image = cv2.divide(gray_image, inverted_blurred_image, scale=256.0)

cv2.imshow('Original Image', img)
color_sketch = cv2.add(img, original_blur)

while True:
    i = int(input('What type of image do you want? (1=gray, 2=inverted gray, 3=blurred, 4=inverted blurred, 5=sketch, 6=color sketch, 7=all): '))

    if i == 1:
        cv2.imshow('Gray', gray_image)
        cv2.imwrite(input('Save as: '), gray_image)
    elif i == 2:
        cv2.imshow('Inverted Gray', inverted_gray_image)
        cv2.imwrite(input('Save as: '), inverted_gray_image)
    elif i == 3:
        cv2.imshow('Blurred Image', blurred_image)
        cv2.imwrite(input('Save as: '), blurred_image)
    elif i == 4:
        cv2.imshow('Inverted Blurred', inverted_blurred_image)

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    cv2.imwrite(input('Save as: '), inverted_blurred_image)
elif i == 5:
    cv2.imshow('Final Sketch', pencil_sketch_image)
    cv2.imwrite(input('Save as: '), pencil_sketch_image)
elif i == 6:
    cv2.imshow('Colored Sketch', color_sketch)
    cv2.imwrite(input('Save as: '), color_sketch)
elif i == 7:
    cv2.imshow('Gray', gray_image)
    cv2.imshow('Inverted Gray', inverted_gray_image)
    cv2.imshow('Blurred Image', blurred_image)
    cv2.imshow('Inverted Blurred', inverted_blurred_image)
    cv2.imshow('Final Sketch', pencil_sketch_image)
    cv2.imshow('Colored Sketch', color_sketch)
else:
    print('Invalid option')

q = input('Do you want to continue? (y/n): ')
if q.lower() != 'y':
    break

cv2.waitKey(0)
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