

▼ Image_to_pencil_sketch_with_python

```
# import the library
import cv2
import matplotlib.pyplot as plt

# get the image file name and Location here
img_file = 'Pic.jpeg'
original_image = cv2.imread(img_file)

# # Convert BGR image to RGB
original_img_rgb = cv2.cvtColor(original_image, cv2.COLOR_BGR2RGB)

# Display the original image
plt.imshow(original_img_rgb)
plt.axis('off')
plt.title('Original Image')
plt.show()
```

Original Image



```
# Convert the image to grayscale
gray_image = cv2.cvtColor(original_image, cv2.COLOR_BGR2GRAY)

# Display the original image
plt.imshow(gray_image)
plt.axis('off')
plt.title('grayscale Image')
plt.show()
```

grayscale Image



```
# Invert the grayscale image
inverted_gray_image = cv2.bitwise_not(gray_image)
```

```
plt.imshow(inverted_gray_image)
plt.axis('off')
plt.title('Inverted Gray Image')
plt.show()
```

Inverted Gray Image



```
# Blur the inverted image using the GaussianBlur function
blurred_image = cv2.GaussianBlur(inverted_gray_image, (111, 111), 0)
```

```
plt.imshow(blurred_image)
plt.axis('off')
plt.title('Blurred Image')
plt.show()
```

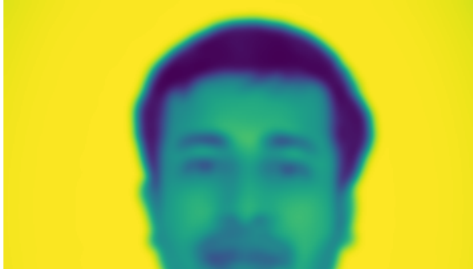
Blurred Image



```
# Invert the blurred image
inverted_blurred_image = cv2.bitwise_not(blurred_image)
```

```
plt.imshow(inverted_blurred_image)
plt.axis('off')
plt.title('Blurred Image')
plt.show()
```

Blurred Image



```
# Create the pencil sketch image by dividing the grayscale image by the inverted blurred image
pencil_sketch = cv2.divide(gray_image, inverted_blurred_image, scale=256.0)
```



```
plt.imshow(pencil_sketch)
plt.axis('off')
plt.show()
```



```
# Convert pencil sketch to RGB
pencil_sketch_rgb = cv2.cvtColor(pencil_sketch, cv2.COLOR_GRAY2RGB)
```

```
# Display the pencil sketch
plt.imshow(pencil_sketch_rgb)
plt.axis('off')
plt.title('Pencil Sketch')
plt.show()
```

Pencil Sketch



THANK YOU

