

```
from google.colab import drive  
drive.mount('/content/drive')
```

Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mour

```
import cv2  
from skimage import io, img_as_float  
from skimage.filters import gaussian  
from google.colab.patches import cv2_imshow
```

```
img = cv2.imread('/content/drive/MyDrive/Colab Notebooks/images/gauss_noise-inmg.jpg',0)  
cv2_imshow(img)
```



```
ksize = (3, 3)
# Using cv2.blur() method
mean = cv2.blur(img, ksize)
cv2_imshow(mean)
```



```
median = cv2.medianBlur(img,5)
cv2_imshow(median)
```



```
gaussian_using_cv2 = cv2.GaussianBlur(img, (5,5), 10,borderType=cv2.BORDER_REPLICATE)
cv2_imshow(gaussian_using_cv2)
```



```
gaussian_using_cv2 = cv2.GaussianBlur(img, (5,5), 10,borderType=cv2.BORDER_REPLICATE)
cv2_imshow(gaussian_using_cv2)
```

```
gauss = cv2.GaussianBlur(img, (3,3), 10)
# Apply Unsharp masking
unsharp_image = cv2.addWeighted(img, 2, gauss, -1, 0)
cv2_imshow(unsharp_image)
```



```
image = cv2.imread("/content/drive/MyDrive/Colab Notebooks/images/gauss_noise-inmg.jpg", 0)
sobelx = cv2.Sobel(src=image, ddepth=cv2.CV_64F, dx=1, dy=0, ksize=5) # Sobel Edge Detection
sobely = cv2.Sobel(src=image, ddepth=cv2.CV_64F, dx=0, dy=1, ksize=5) # Sobel Edge Detection
sobelxy = cv2.Sobel(src=image, ddepth=cv2.CV_64F, dx=1, dy=1, ksize=5) # Combined X and Y Sob
# Display Sobel Edge Detection Images
cv2_imshow(sobelx)
cv2_imshow(sobely)
cv2_imshow(sobelxy)
```



