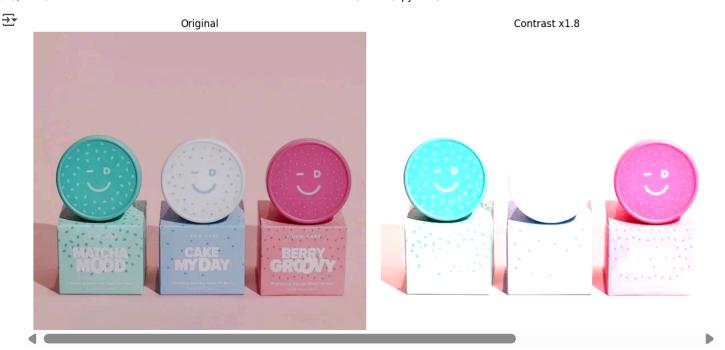
```
from google.colab import files
uploaded = files.upload()
Pilih File produk.jpg
     • produk.jpg(image/jpeg) - 38346 bytes, last modified: 27/6/2025 - 100% done
     Saving produk.jpg to produk.jpg
import cv2
import numpy as np
import matplotlib.pyplot as plt
# Baca gambar
img = cv2.imread('produk.jpg')
img_rgb = cv2.cvtColor(img, cv2.COLOR_BGR2RGB)
# Fungsi buat nampilin gambar
def show_img(imgs, titles, rows=1, cols=2):
    plt.figure(figsize=(12, 6))
    for i in range(len(imgs)):
       plt.subplot(rows, cols, i+1)
       plt.imshow(imgs[i])
        plt.title(titles[i])
        plt.axis('off')
    plt.tight_layout()
    plt.show()
# Tambah brightness
bright = cv2.convertScaleAbs(img_rgb, alpha=1, beta=60) # beta = terang
show_img([img_rgb, bright], ['Original', 'Brightness +60'])
₹
                                Original
                                                                                           Brightness +60
# Tambah kontras
contrast = cv2.convertScaleAbs(img_rgb, alpha=1.8, beta=0) # alpha = kontras
show_img([img_rgb, contrast], ['Original', 'Contrast x1.8'])
                               Apa yang bisa saya bantu buatkan untuk Anda?
                                                                                            ⊕ ⊳
```





blur = cv2.GaussianBlur(img_rgb, (11, 11), 0)
show_img([img_rgb, blur], ['Original', 'Gaussian Blur'])

 $\overline{\Rightarrow}$

Original







edges = cv2.Canny(img, 100, 200)

plt.figure(figsize=(6,6))
plt.imshow(edges, cmap='gray')
plt.title('Canny Edge Detection')
plt.axis('off')
plt.show()



Canny Edge Detection

