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In [3]: import PIL
import numpy as np
import matplotlib.pyplot as plt
from scipy import ndimage
fig, axs = plt.subplots(2, 2, figsize = (8, 8))
# Load image
img = PIL.Image.open('FIM.png')
# Convert to greyscale
img g = img.convert('L')
# Create NumPy array from colored image
array rgb = np.array(img)
# Create NumPy array from greyscale image
array_g = np.array(img_g)
axs[0][0].imshow(img)
axs[0][0].set_title("Pillow Image")
# Resize image
resized = img.resize((64, 64))
axs[0][1].imshow(resized)
axs[0][1].set_title("Resized")
# Laplace filter on array
filtered = ndimage.laplace(array g)
axs[1][0].imshow(filtered, cmap='gray')
axs[1][0].set_title("Laplace filter")
# Sobel filter on array
sobel = ndimage.sobel(array_g)
axs[1][1].imshow(sobel, cmap='gray')
axs[1][1].set_title("Sobel filter")
new_img = PIL.Image.fromarray(filtered)
plt.show()
```

