Procesamiento-de-Imagenes / ejercicios

In [1]: from pylab import * rcParams['image.cmap'] = 'gray'

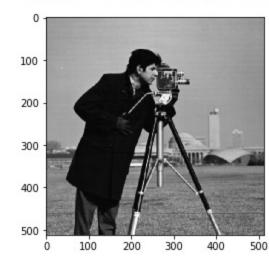
Ejercicio 1

In [2]: from skimage.data import camera

In [3]: image = camera()

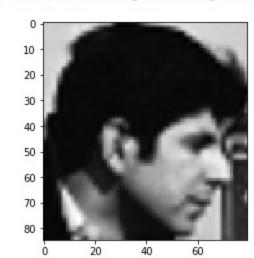
In [4]: imshow(image)

Out[4]: <matplotlib.image.AxesImage at 0x1d70bdbd160>



In [5]: cara = image[75:160, 190:270] imshow(cara)

Out[5]: <matplotlib.image.AxesImage at 0x1d70ce46908>

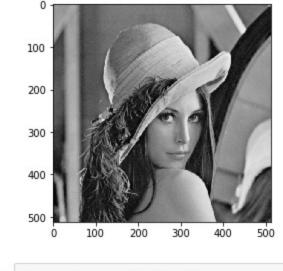


Ejercicio 2

In [6]: lena = imread('lena_gray_512.tif')

In [7]: imshow(lena)

Out[7]: <matplotlib.image.AxesImage at 0x1d70cebaba8>



In [8]: mask = zeros_like(lena)

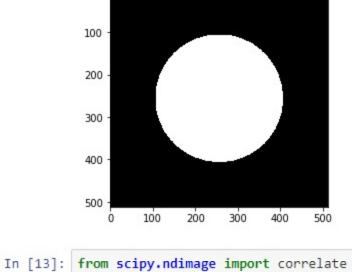
In [9]: from skimage.draw import circle

In [10]: cx = int(lena.shape[0]/2)cy = int(lena.shape[1]/2) rr, cc = circle(cx, cy, 150, shape=lena.shape)

In [11]: mask[rr, cc] = 1

In [12]: imshow(mask)

Out[12]: <matplotlib.image.AxesImage at 0x1d70cf1b6a0>



In [14]: R = lena*mask

In [15]: imshow(R)

Out[15]: <matplotlib.image.AxesImage at 0x1d70d096fd0>

100 200 300 400 500 -100 200 300

In [16]: lena.shape

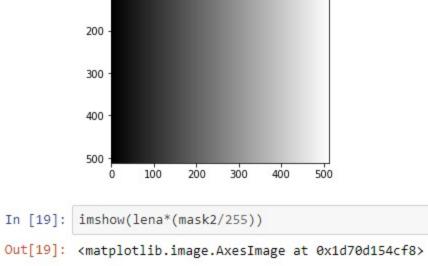
Ejercicio 3

Out[16]: (512, 512) In [17]: ll = linspace(0, 255, num=512)

In [18]: mask2 = zeros_like(lena) mask2[0:512, ...] = 11

imshow(mask2) Out[18]: <matplotlib.image.AxesImage at 0x1d70d0f9c18>

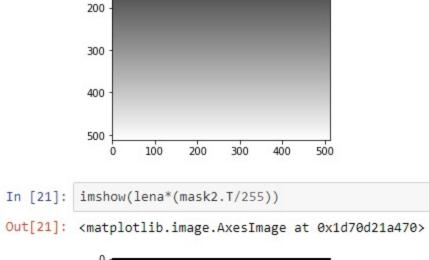
100



100



100



100