2018/3/27 gaussian_blur_test

lena_512 = io.imread('image\\lena512.bmp', as_grey=True)

from skimage import transform, io, data

In [1]: | ### Import source

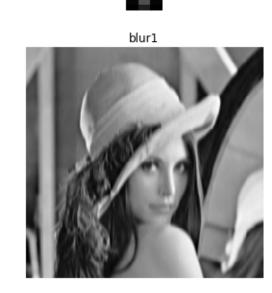
```
lena_256 = transform.resize(lena_512, (256, 256))
In [2]: | ### Gaussian blur test
        import convolution
        import numpy as np
        import matplotlib.pyplot as plt
        from matplotlib import gridspec
         _{\text{sigma}} = 2.0
        _gamma = 0.25
        _theta = [0, 0.5*np.pi]
        _{nstds} = 2
        blur1 = convolution.BLUR_GAUSSIAN(sigma=_sigma, gamma=_gamma, theta=_theta[0], nstds=_nstds)
        blur2 = convolution. BLUR GAUSSIAN(sigma= sigma, gamma= gamma, theta= theta[1], nstds= nstds)
        gauss1 = convolution.gaussian blur 2d(img=lena 256, sigma= sigma, gamma= gamma, theta= theta[0], nstds= nstds)
        gauss2 = convolution.gaussian_blur_2d(img=lena_256, sigma=_sigma, gamma=_gamma, theta=_theta[1], nstds=_nstds)
        fig = plt. figure (figsize=(15, 7))
        gs = gridspec.GridSpec(2, 3, height_ratios=[2, 5])
        plt.subplot(gs[1]),plt.imshow(blur1,cmap=plt.cm.gray)
        plt.title('blur'), plt.axis('off')
        plt. xlim(-3, 5), plt. ylim(0, 8)
        plt.subplot(gs[2]),plt.imshow(blur2,cmap=plt.cm.gray)
        plt.title('blur'), plt.axis('off')
        plt. xlim(0, 8), plt. ylim(-3, 5)
        plt.subplot(gs[3]), plt.imshow(lena_256, cmap=plt.cm.gray)
        plt.title('lena'), plt.axis('off')
        plt. subplot(gs[4]), plt. imshow(gauss1, cmap=plt. cm. gray)
        plt.title('blur1'), plt.axis('off')
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plt. subplot (gs[5]), plt. imshow(gauss2, cmap=plt. cm. gray)

plt. title('blur2'), plt. axis('off')

plt.show()



blur



blur