2018/3/27

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filter_edge_test
In [1]: | ### Import source
        from skimage import transform, io, data
        lena_512 = io.imread('image\\lena512.bmp', as_grey=True)
        lena_256 = transform.resize(lena_512, (256, 256))
In [2]: | ### Edge filters test
        import convolution
        import matplotlib.pyplot as plt
        fig = plt.figure(figsize=(12, 20))
        plt.subplot(5, 3, 1), plt.imshow(lena_256, cmap=plt.cm.gray)
        plt.title('lena'), plt.axis('off')
        for i in range(len(filters)):
           y = convolution.filter_2d(img=lena_256, filter=filters[i])
           plt. subplot (5, 3, i+4), plt. imshow (y, cmap=plt. cm. gray)
           plt.title(filters[i]), plt.axis('off')
        plt.show()
                       lena
                      hsobel
                                                      vsobel
                                                                                      sobel
                     hscharr
                                                     vscharr
                                                                                     scharr
```

vprewitt

nroberts

prewitt

roberts

hprewitt

proberts