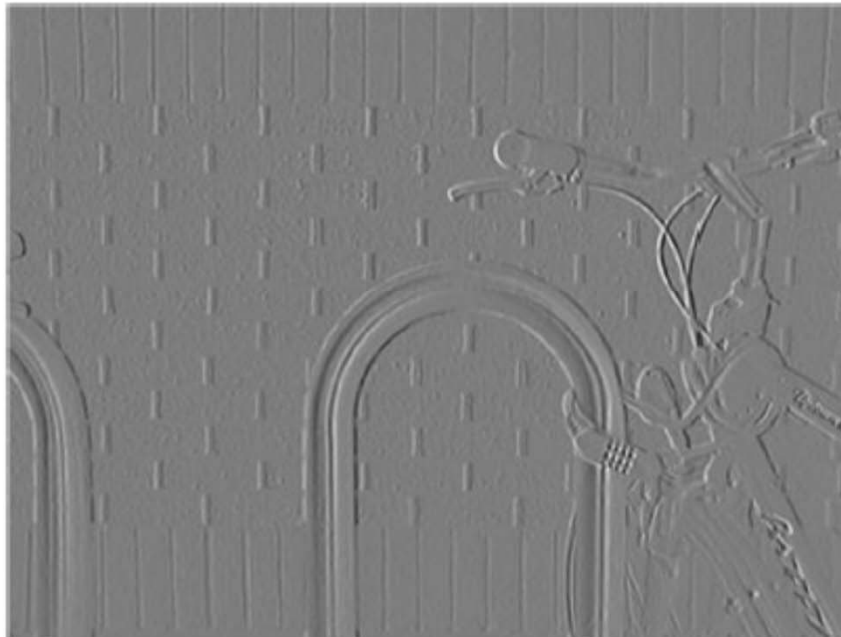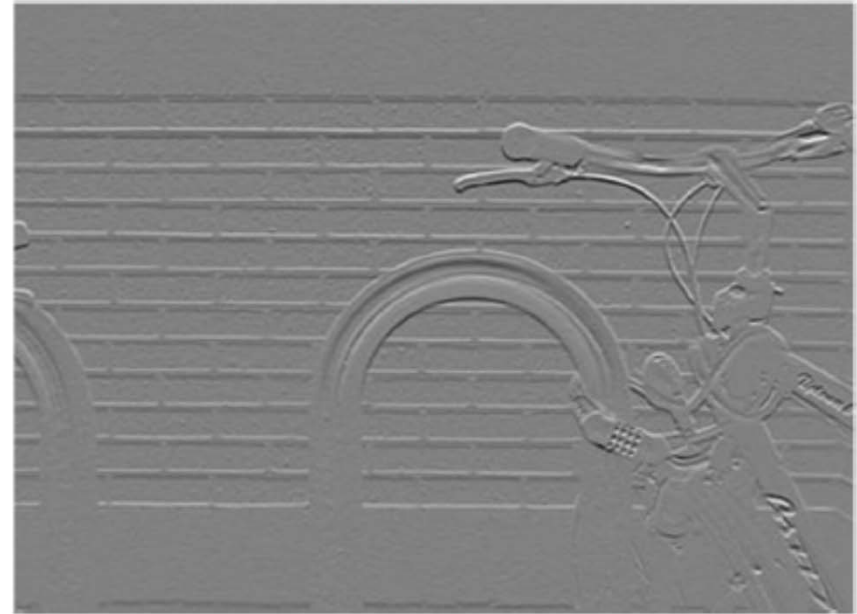# Lab 05

Sobel Edge Detector

Sobel Filter example

```python
# 0.8 is multiplied not to make the result become > 1
im_input = io.imread('_image1.jpg', as_grey=True)*0.8

sobel_x = np.zeros( (3,3) )
sobel_x[0,0] =
sobel_x[1,0] =
sobel_x[2,0] =
sobel_x[0,2] =
sobel_x[1,2] =
sobel_x[2,2] =


sobel_y =

im_sobel_x = filter( im_input, sobel_x )
im_sobel_y = filter( im_input, sobel_y )

io.imsave('sobel_x.png',im_sobel_x/4)
io.imsave('sobel_y.png',im_sobel_y/4)
```

Project

- Edge Detection Challenge