

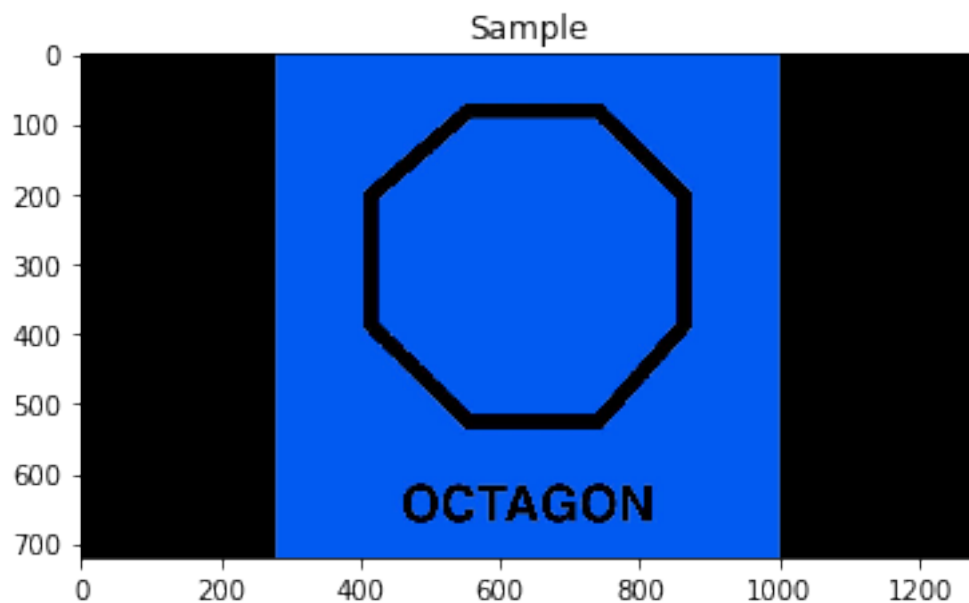
Edge Detection

April 28, 2019

0.0.1 Edge Detection

```
In [1]: import cv2
import numpy as np
from matplotlib import pyplot as plt
```

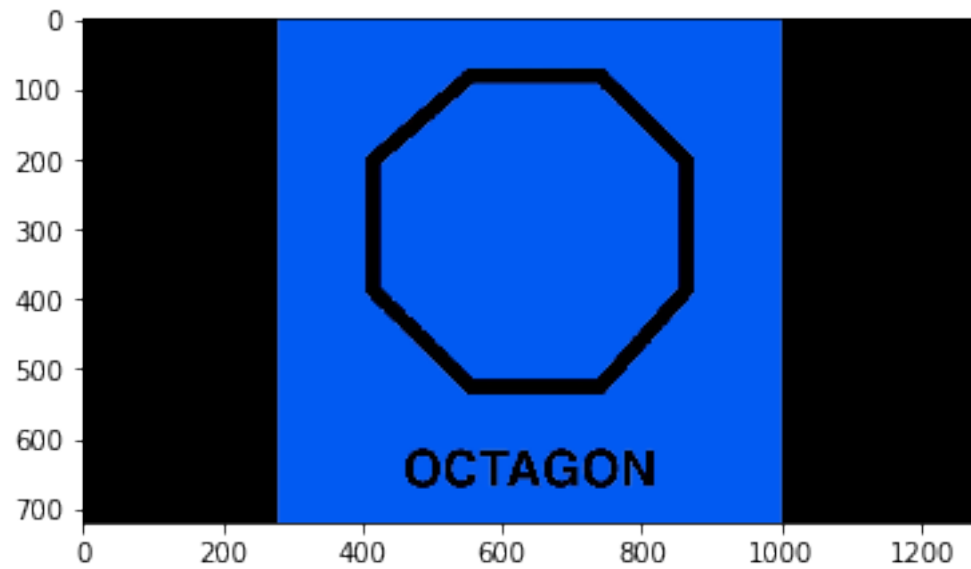
```
In [2]: img = cv2.imread('sample5.jpg')
plt.imshow(img)
plt.title('Sample')
plt.show()
```



```
In [3]: blur = cv2.fastNlMeansDenoisingColored(img, None, 10, 10, 7, 21)
```

```
In [4]: plt.imshow(blur, cmap='gray')
```

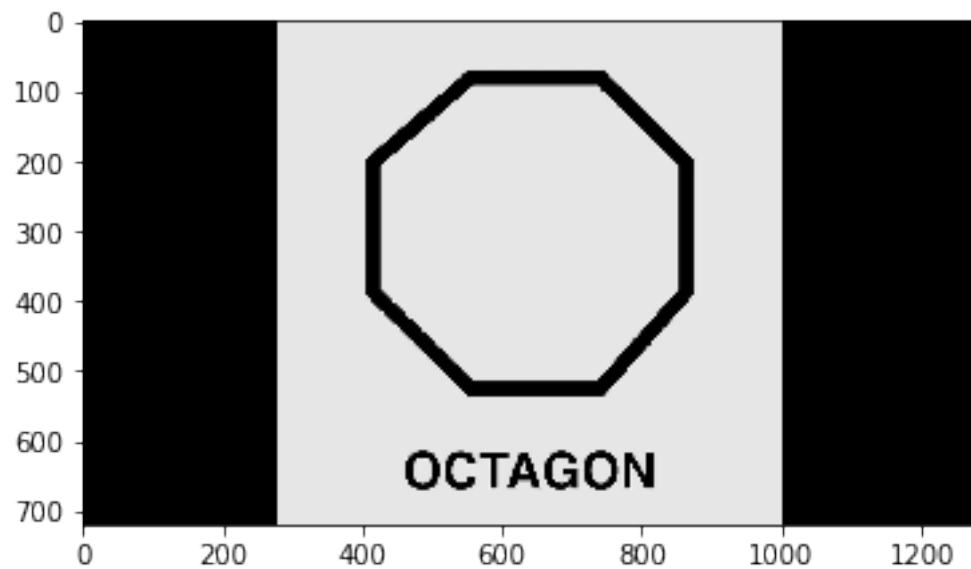
```
Out[4]: <matplotlib.image.AxesImage at 0x11a1daf28>
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```
In [5]: gray = cv2.cvtColor(blur, cv2.COLOR_BGR2GRAY)
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```
In [6]: plt.imshow(gray, cmap='gray')
```

```
Out[6]: <matplotlib.image.AxesImage at 0x1bf20e80>
```



```
In [7]: print(gray.shape)
```

(720, 1280)

```
In [8]: def pad(img,shp):
        p=np.zeros((shp[0]+2,shp[1]+2))
        p[1:-1,1:-1]=np.copy(img)
        p[0,1:-1],p[-1,1:-1]=img[0],img[-1]
        p[1:-1,0],p[1:-1,-1]=img[:,0],img[:,-1]
        p[0,0],p[0,-1]=img[0,0],img[0,-1]
        p[-1,0],p[-1,-1]=img[-1,0],img[-1,-1]
        return p

In [9]: def sobel_filter(img):
        sabel_x = np.array([[ -1,0,1],[ -2,0,2],[ -1,0,1]])
        sabel_y = np.array([[ -1,-2,-1],[ 0,0,0],[ 1,2,1]])
        shp = img.shape
        shpm=(3,3)
        padded_img=pad(img,shp)
        grad_matrix=np.zeros(shp)
        out=np.zeros(shp)
        exp = np.zeros(shp)
        for i in range(shp[0]):
            for j in range(shp[1]):
                g_x=np.multiply(padded_img[i:i+shpm[0],j:j+shpm[1]],sabel_x).sum()
                g_y=np.multiply(padded_img[i:i+shpm[0],j:j+shpm[1]],sabel_y).sum()
                if g_y!=0 or g_x!=0:
                    if g_x==0:
                        rad=np.arctan2(g_y,g_x)
                    else:
                        rad=np.arctan2(g_y,g_x)
                    deg=rad*(180/np.pi)
                    rad_rev = deg*(np.pi/180)
                    #print(rad*(180/np.pi),end=" ")
                    #print(rad_rev)
                    grad_matrix[i][j]=deg
                    if grad_matrix[i][j]<0:
                        exp[i][j] = grad_matrix[i][j]
                    out[i][j] = np.sqrt(np.square(g_x)+np.square(g_y))
                else:
                    out[i,j]=255
                    grad_matrix[i][j]=255
        out=np.array(out, dtype = np.uint8)
        grad_matrix=np.array(grad_matrix,dtype= np.uint8)

        return out,grad_matrix,exp

In [10]: def prewitt_filter(img):
        prewitt_x = np.array([[ -1,0,1],[ -1,0,1],[ -1,0,1]])
```

```

prewitt_y = np.array([[1,1,1],[0,0,0],[-1,-1,-1]])
shp = img.shape
shpm=(3,3)
padded_img=pad(img,shp)
grad_matrix=np.zeros(shp)
out=np.zeros(shp)
exp = np.zeros(shp)
for i in range(shp[0]):
    for j in range(shp[1]):
        g_x=np.multiply(padded_img[i:i+shpm[0],j:j+shpm[1]],prewitt_x).sum()
        g_y=np.multiply(padded_img[i:i+shpm[0],j:j+shpm[1]],prewitt_y).sum()
        if g_y!=0 or g_x!=0:
            if g_x==0:
                rad=np.arctan2(g_y,g_x)
            else:
                rad=np.arctan2(g_y,g_x)
            deg=rad*(180/np.pi)
            rad_rev = deg*(np.pi/180)
            #print(rad*(180/np.pi),end=" ")
            #print(rad_rev)
            grad_matrix[i][j]=deg
            if grad_matrix[i][j]<0:
                exp[i][j] = grad_matrix[i][j]
                print(exp[i][j])
            out[i][j] = np.sqrt(np.square(g_x)+np.square(g_y))
        else:
            out[i,j]=255
            grad_matrix[i][j]=255
out=np.array(out, dtype = np.uint8)

return out,grad_matrix,exp

```

In [11]: output, grad_matrix,exp = sobel_filter(gray)

In []:

In [12]: plt.imshow(exp,cmap='gray')

Out[12]: <matplotlib.image.AxesImage at 0x11c227dd8>

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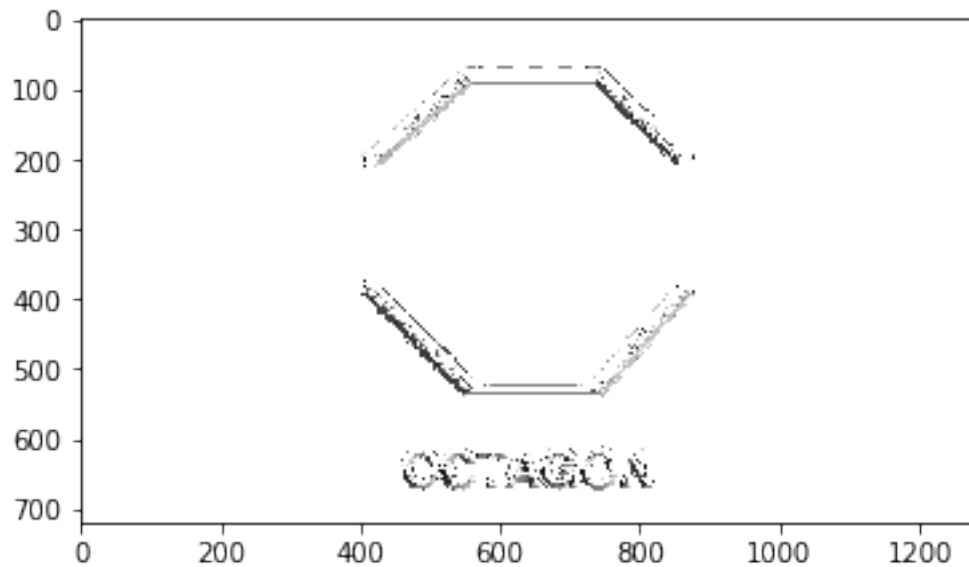
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```
In [14]: plt.imshow(exp2,cmap='gray')
```

```
Out[14]: <matplotlib.image.AxesImage at 0x11e0be828>
```



```
In [15]: output
```

```
Out[15]: array([[255, 255, 255, ..., 255, 255, 255],  
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                ...,  
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```

```
In [16]: output2
```

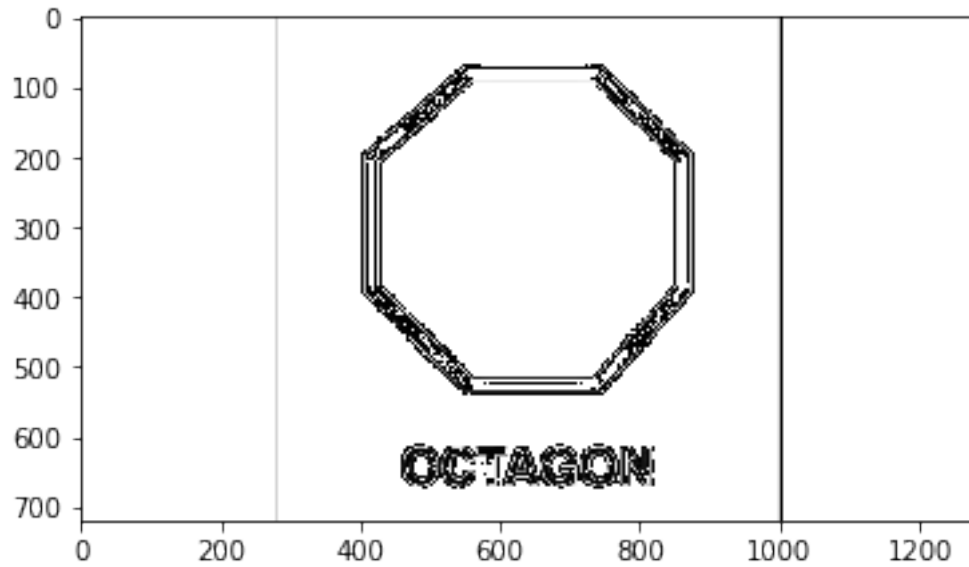
```
Out[16]: array([[255, 255, 255, ..., 255, 255, 255],  
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                ...,  
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                [255, 255, 255, ..., 255, 255, 255],  
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```

```
In [17]: grad_matrix.shape[0]
```

```
Out[17]: 720
```

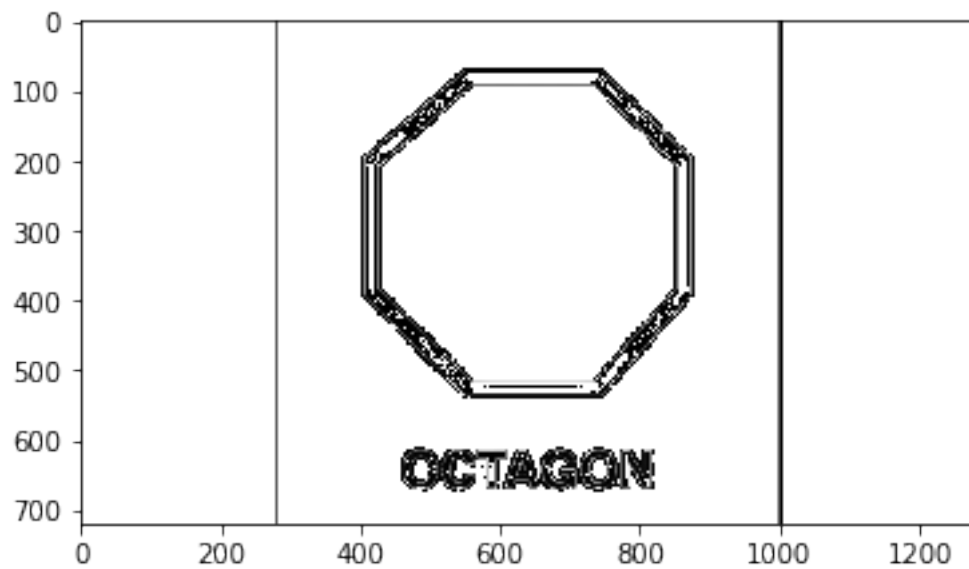
```
In [18]: plt.imshow(output, cmap='gray')
```

```
Out[18]: <matplotlib.image.AxesImage at 0x11b1843c8>
```



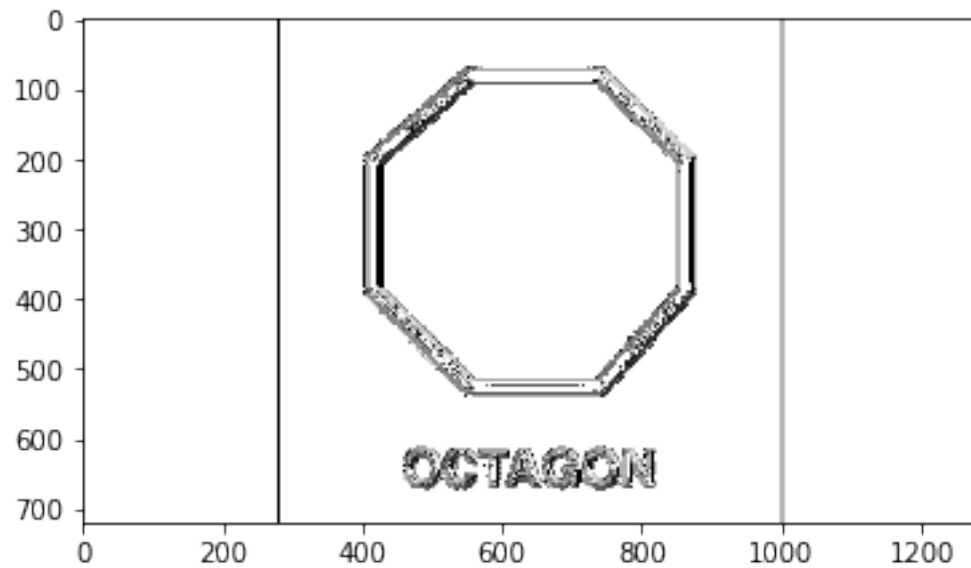
```
In [19]: plt.imshow(output2, cmap='gray')
```

```
Out[19]: <matplotlib.image.AxesImage at 0x11b576860>
```



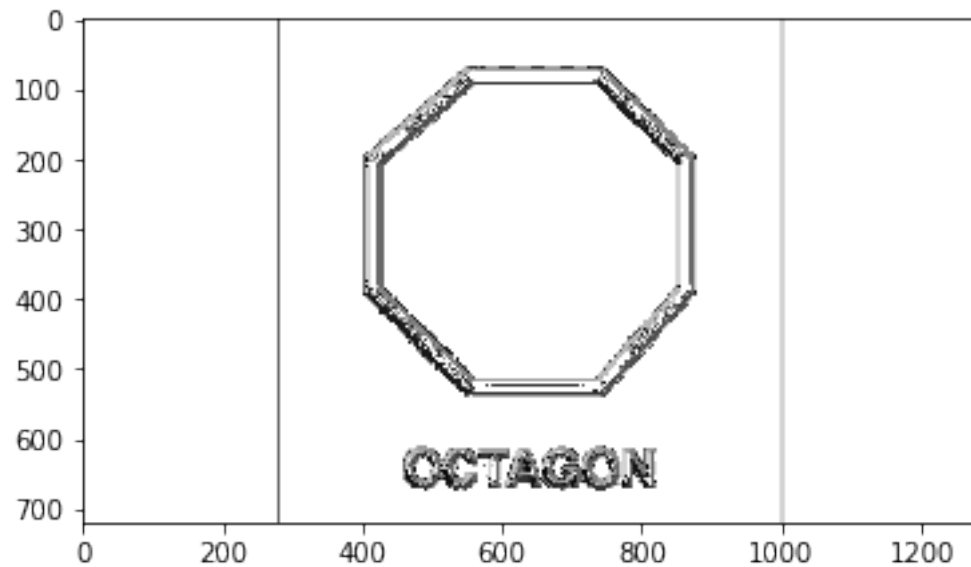
```
In [20]: plt.imshow(grad_matrix,cmap='gray')
```

```
Out[20]: <matplotlib.image.AxesImage at 0x118fd1d68>
```



```
In [21]: plt.imshow(grad_matrix2,cmap='gray')
```

```
Out[21]: <matplotlib.image.AxesImage at 0x11b303898>
```



```
In [22]: def threshold(grad_matrix, angle_min, angle_max):

    output = np.zeros(grad_matrix.shape)
    for i in range(grad_matrix.shape[0]):
        for j in range(grad_matrix.shape[1]):

            if grad_matrix[i][j] <= angle_max and grad_matrix[i][j] >= angle_min:
                output[i][j] = 255
                print(grad_matrix[i][j])
            else:
                output[i][j] = 0
    return output
```

[illegible]

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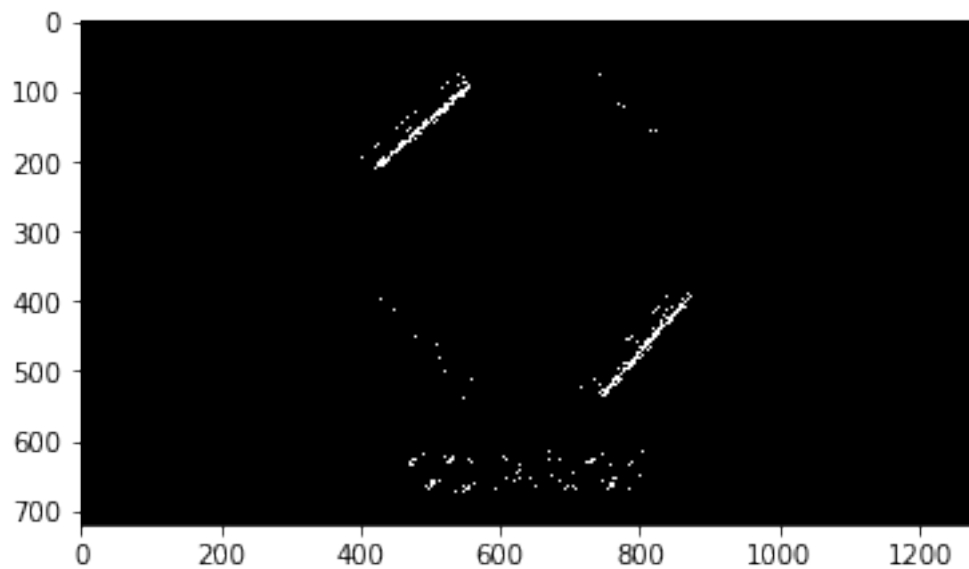
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-57.264773727892404
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-57.9946167919165
-53.13010235415598
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-45.0
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-45.0
-45.0
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-45.0
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-56.309932474020215
-45.0
-45.0
-56.309932474020215
-56.309932474020215

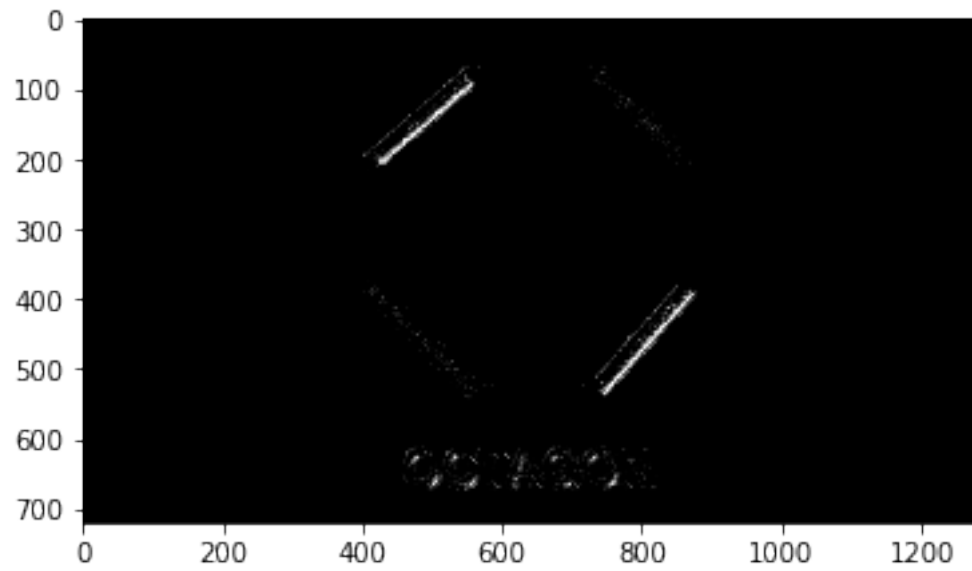
```
-33.690067525979785
-45.0
-36.86989764584402
-45.0
-45.0
-45.0
-45.0
-56.309932474020215
-45.0
-45.0
-45.0
-45.0
-59.03624346792648
-45.0
-45.0
-53.13010235415598
-45.0
```

```
In [25]: plt.imshow(filtered2,cmap="gray")
         cv2.imshow('image',filtered2)
         cv2.waitKey()
         cv2.destroyAllWindows()
```



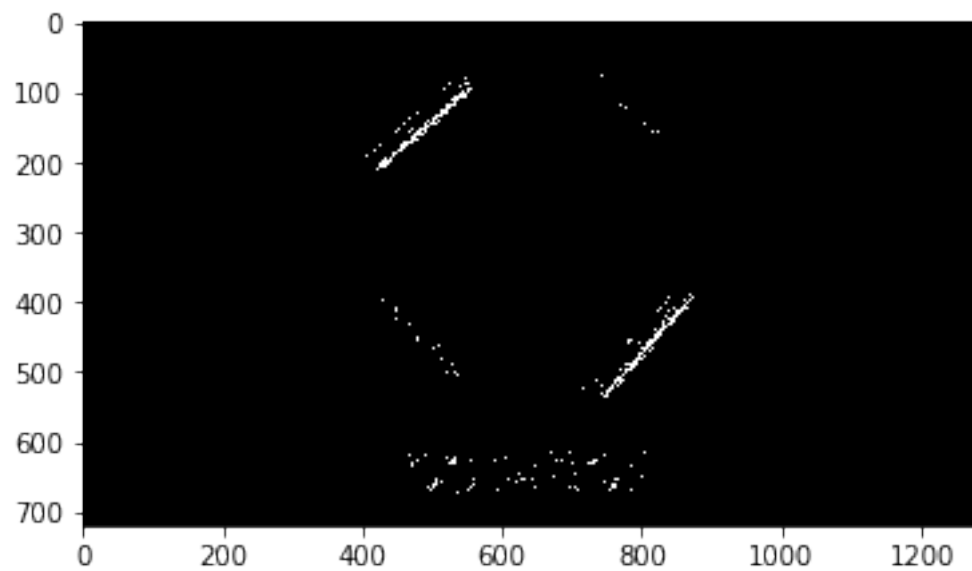
```
In [26]: smo_fil = cv2.GaussianBlur(filtered2,(5,5),0)
```

```
In [27]: plt.imshow(smo_fil,cmap='gray')
         plt.imsave('output_edge.png',smo_fil,cmap='gray')
```



In []:

```
In [28]: plt.imshow(filtered,cmap="gray")
cv2.imshow('image',filtered)
cv2.waitKey()
cv2.destroyAllWindows()
```




```
In [29]: x = np.array([-1, +1, +1, -1])
          y = np.array([-1, -1, +1, +1])

          np.arctan2(y,x)*180/np.pi

Out[29]: array([-135.,  -45.,   45.,  135.])

In [ ]:

In [ ]:
```