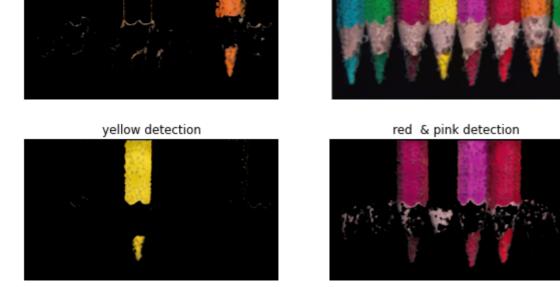
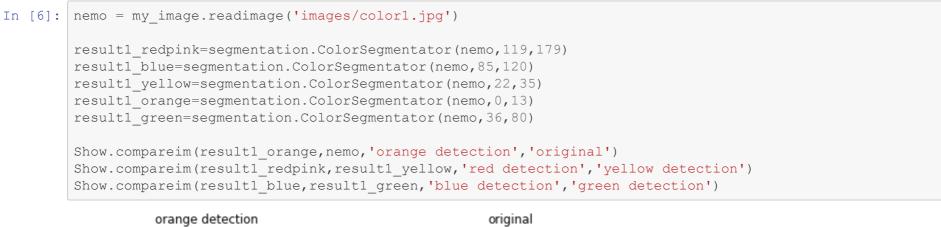
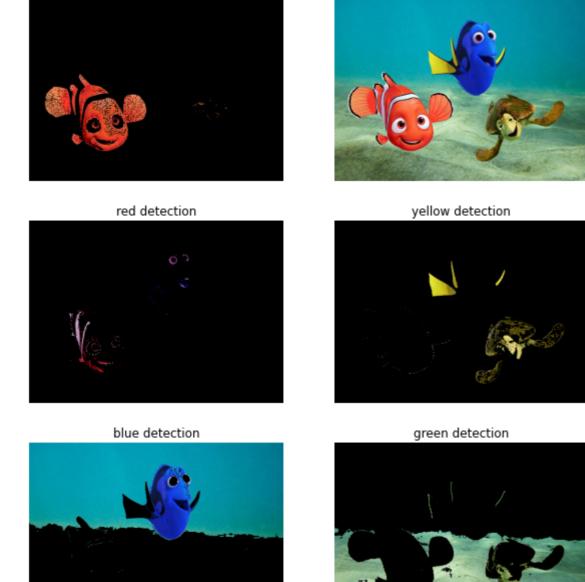
```
In [1]: import cv2
         import numpy as np
         import matplotlib.pyplot as plt
         from Image import my image, Show, segmentation
         from skimage import color
         $\textbf{I. ColorSegmentator(image, min_color, max_color)}$
```

```
In [7]: pen = my_image.readimage('images/color2.jpg')
        pen = cv2.medianBlur(pen, ksize=11)
        result1 redpink=segmentation.ColorSegmentator(pen, 120, 179)
        result1_blue=segmentation.ColorSegmentator(pen,85,120)
        result1_yellow=segmentation.ColorSegmentator(pen, 22, 35)
        result1 orange=segmentation.ColorSegmentator(pen, 8, 17)
        result1 green=segmentation.ColorSegmentator(pen, 36, 80)
        Show.compareim(result1_orange,pen,'orange detection','original')
        Show.compareim(result1_yellow,result1_redpink,'yellow detection', 'red & pink detection')
        Show.compareim(result1_blue, result1_green, 'blue detection', 'green detection')
                  orange detection
                                                            original
```





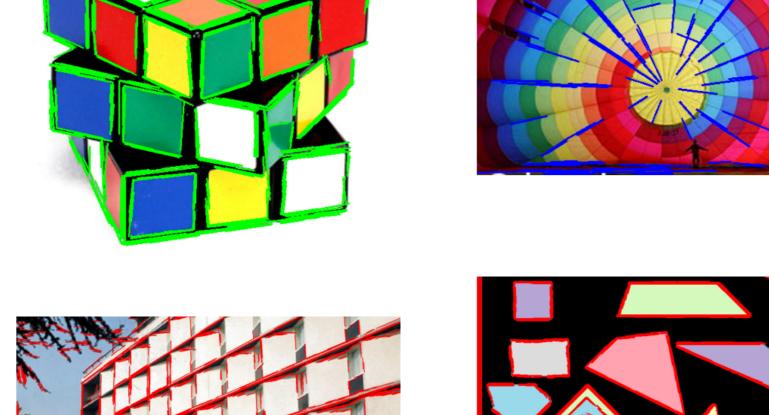




## In [5]: img1=my image.readimage('images/edgedetection/test1.png')

\$\textbf{II. LinesDetector(image, minlenght)}\$

```
img2=my_image.readimage('images/test5.png')
img3=my_image.readimage('images/test8.png')
img4=my_image.readimage('images/t3.png')
line1=segmentation.LinesDetector(img1,minlenght=30,r=0,g=255,b=0)
line2=segmentation.LinesDetector(img2,minlenght=30,r=0,g=0,b=255)
line3=segmentation.LinesDetector(img3,minlenght=30)
line4=segmentation.LinesDetector(img4,minlenght=10)
Show.compareim(line1,line2,'','',2)
Show.compareim(line3,line4,'','',2)
```



## img4=cv2.imread('images/t3.png')

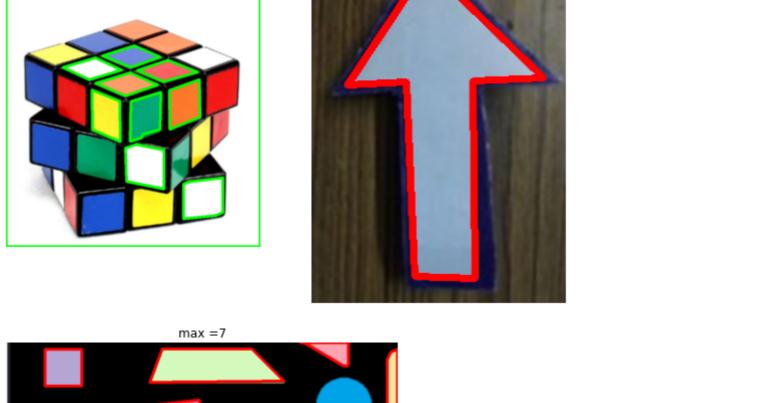
img2=cv2.imread('images/t4.jpg')

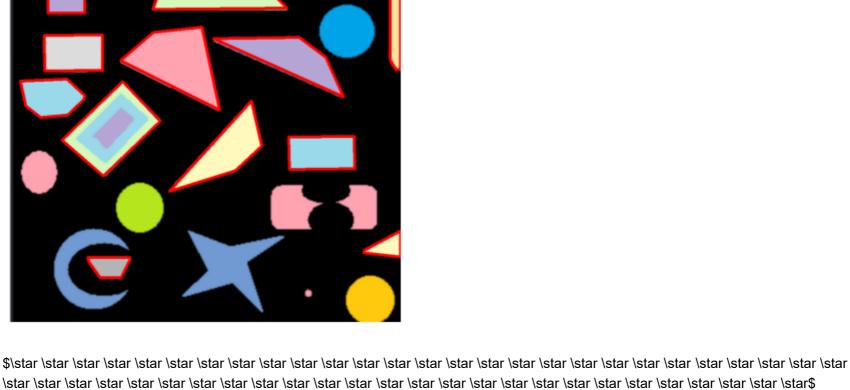
\$\textbf{III. PolygonDetector(image, maxside)}\$

In [4]:

img1=cv2.imread('images/edgedetection/test1.png')

```
s1=segmentation.PolygonDetector(img1,6,r=0,g=255,b=0)
s2=segmentation.PolygonDetector(img2,7)
s4=segmentation.PolygonDetector(img4,7)
s1 = cv2.cvtColor(s1, cv2.COLOR_BGR2RGB)
s2 = cv2.cvtColor(s2, cv2.COLOR_BGR2RGB)
s4 = cv2.cvtColor(s4, cv2.COLOR_BGR2RGB)
Show.compareim(s1,s2,'max=6','max7',1)
Show.show_me(s4, 'max =7')
                                                   max7
             max=6
```





\$\textbf{color segmentation with WEBCAM .}\$

\$ \text{exit with Esc}\$

## segmentation.camera color()

Ι

	,	
In	[3]:	segmentation.camera_Line(minlenght=30)
In	[2]:	segmentation.camera_Polygon(maxside=30)

In [ ]: