## Image Processing Home work 07 Image Compressions

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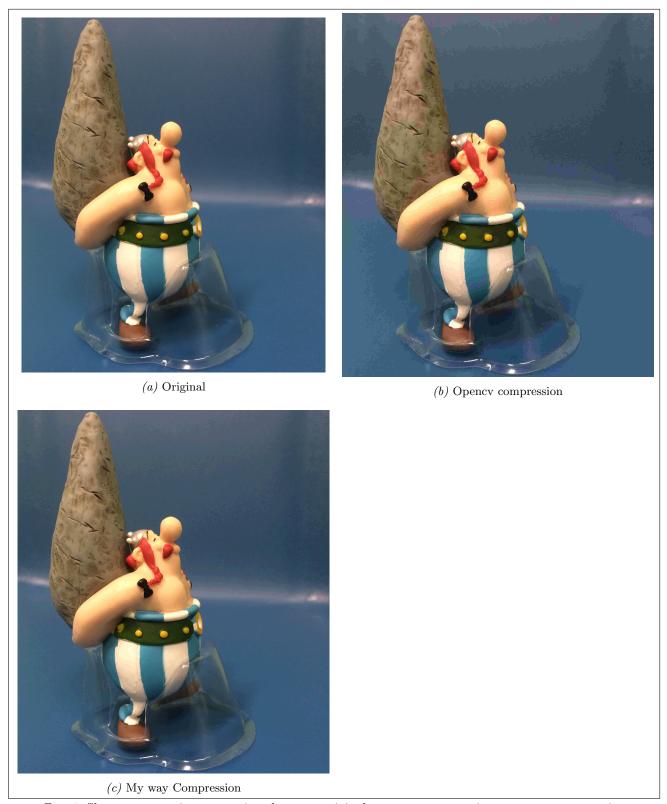


Fig. 1: Shows compression comparison between original , opency compression , my way compression

```
return cv2.imread(name)
13
obe = readimg('Obelix.jpg')
15
def compressWay1(obe, quality):
       {\tt cv2.imwrite('obe\_CV2\_\{\}.jpg'.format(quality)\,,\ obe\,,\ [int(cv2.IMWRITE\_JPEG\_QUALITY)\,,\ quality]}
  def compressWay2(obe, quality):
19
       lvls = floor(quality*255/100)
20
       step = floor(255/lvls)
21
22
       value = floor(step/2)
       print 'levels:{}, step:{}, value:{}, quality:{}'.format(lvls, step, value, quality)
23
       nm \ = \ [\,]
       for i in range (256):
25
           nm.append(value)
26
           if i\%step==0 and i!=0:
27
                value+=step
28
       table = np.array(nm)
29
       obe = cv2.LUT(obe, table)
cv2.imwrite('obe_MYWAY_{{}}.jpg'.format(quality),obe)
30
31
32
       print nm
33
34 compressWay1 (obe ,10)
35 compressWay2 (obe, 10)
```