Image Processing Home work 07 Image Compressions

Aqeel Labash **Lecturer:** Gholamreza Anbarjafari

May 25, 2016

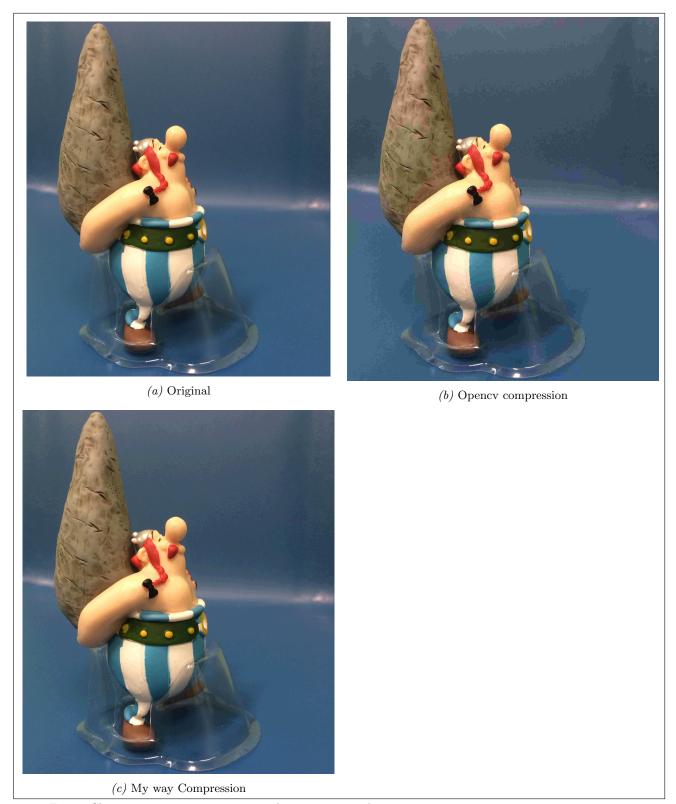


Fig. 1: Shows compression comparison between original, opency compression, my way compression

To accomplish the previous results I used the following code :

```
def reading (name):
                          return cv2.imread(name)
12
13
obe = readimg('Obelix.jpg')
15
def compressWay1(obe, quality):
                           cv2.imwrite(\begin{subarray}{l} \begin{subarray}{l} \begin{subar
17
18
def compressWay2(obe, quality):
                            lvls = floor(quality*255/100)
20
21
                           step = floor(255/lvls)
                          value = floor(step/2)
print 'levels:{}, step:{}, value:{}, quality:{}'.format(lvls, step, value, quality)
22
                          nm = []
24
                          for i in range (256):
25
26
                                           nm.append(value)
                                           if i\%step==0 and i!=0:
27
                                                           value+=step
28
                            table = np.array(nm)
                          obe = cv2.LUT(obe, table)
30
                          cv2.imwrite('obe_MYWAY_{{}}.jpg'.format(quality),obe)
31
32
                          print nm
34 compressWay1 (obe, 10)
35 compressWay2(obe, 10)
```

 ${f Note:}$ All images,.tex,.pdf,.jpg,.py etc.. files exist on Github

E.O.F