Contrast

April 28, 2019

```python
In [ ]: import cv2
        import numpy as np

        img=cv2.imread('flower1.jpg',0)
        int_min=np.amin(img)
        int_max=np.amax(img)
        x1=int_min
        y1=0
        x2=int_max
        y2=255
        m=float(y2-y1)/float(x2-x1)
        out=img*m
        out=out-(x1*m)

        out=np.array(out, dtype = np.uint8)
        print(img)
        print(out)
        cv2.imshow('image', img)
        cv2.imshow('contrast expanded', out)
        cv2.waitKey(0)
        cv2.destroyAllWindows()
```
```
[[126 126 126 ... 128 128 128]
 [126 126 126 ... 128 128 128]
 [126 126 127 ... 128 129 129]
 ...
 [135 135 134 ... 114 114 113]
 [133 134 133 ... 114 113 113]
 [134 136 134 ... 114 113 113]]
[[122 122 122 ... 124 124 124]
 [122 122 122 ... 124 124 124]
 [122 122 123 ... 124 125 125]
 ...
 [131 131 130 ... 110 110 108]
 [129 130 129 ... 110 108 108]
 [130 132 130 ... 110 108 108]]
```

```python
In [ ]:
```