Computer Vision Hw #2

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Homework Description

- (a) a binary image (threshold at 128)
- (b) a histogram
- (c) connected components(regions with + at centroid, bounding box)

• Binary Image

Simple if-else (The same as Hw1)

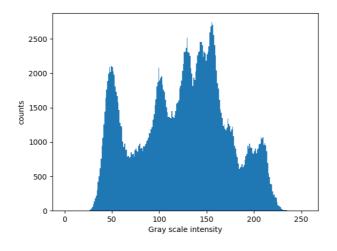
```
for i in range(length):
    for j in range(length):
        arr[i][j] = 0 if arr[i][j] < 128 else 255</pre>
```



• Histogram

Use: matplotlib

```
cnt = []
for i in range(length):
    for j in range(length):
        cnt.append(arr[i][j])
plt.hist(np.array(cnt), bins=range(256))
```



• Connected components

使用4-connect , 並且使用**bfs來找出連通分量**,以連通分量中的最大最小x, y值來畫box,以平均座標畫原點

其中圖片連通白色pixel

因code 較長,請直接參考source code.

