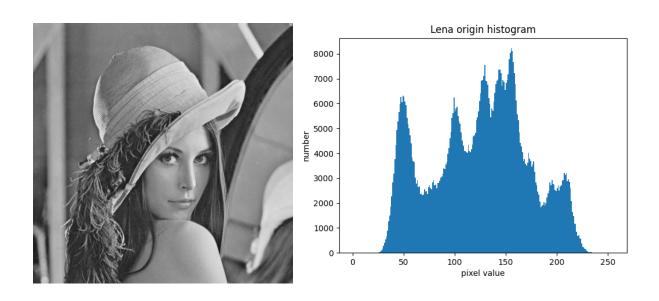
Homework 3

Class: CV 2020, Name: 許凱荃, R09921119

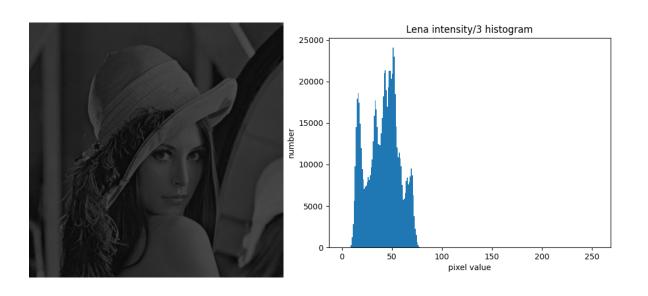
(a)original image and its histogram

讀取圖片,然後使用 pyplot 來製作直方圖。



(b) image with intensity divided by 3 and its histogram

讀取圖片後,強度除以 3 ,因為 numpy 特性不論是三維還是二維都能直接 / 3 記得轉型回 uint8 就好。



(c) image after applying histogram equalization to (b) and its histogram

$$h(v) = \text{round}\left(rac{cdf(v) - cdf_{min}}{cdf_{max} - cdf_{min}} imes (L-1)
ight)$$

- 1. 統計出現次數
- 2. 使用 np.cumsum 找出累加序列,得到 max 與 min
- 3. 套用上面公式,每個灰階值得到對應的新的值



