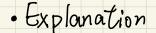
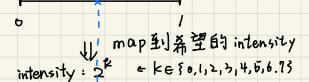
107070037

Project 02-02 reducing the number of intensity levels in an image





U noralize

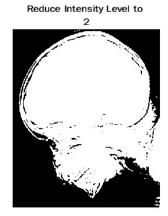


D.整权 floor

在imshow的時候,標示intensity範圍

ex. imshow (img, Lo, intensity level



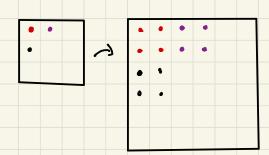


Project02-03 Zooming and Shrinking Images by Pixel Replication

· Explanation

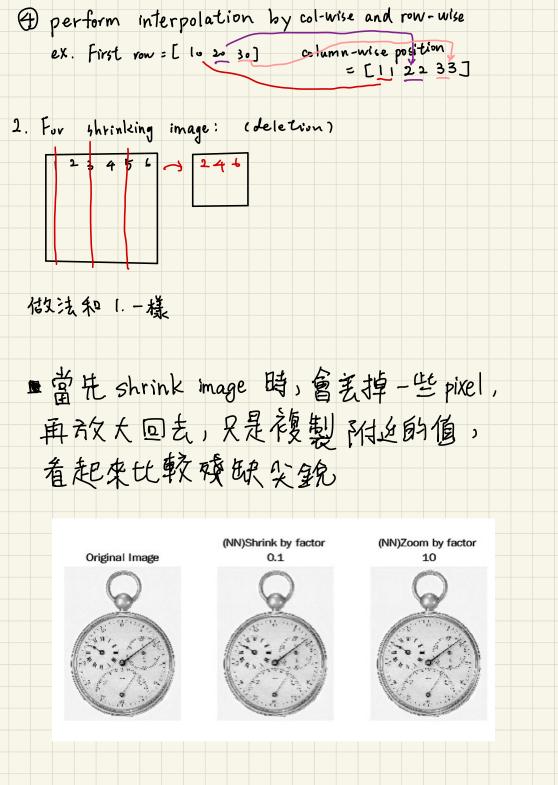
Nearest - Neighbor algorithm

1. For zooming image:



放大K倍,每个row和col就重復K=欠

- ① original:mxn 放大K倍
- (2) row_wise, col-wise pixel polition
 [[:kn]
- 3 normalize, map to original img index ceil ([1:km]) ceil ([1:kn])



Project02-04 Zooming and Shrinking Images by Bilinear Interpolation · Explaination D共位文文方向 interpolation f(R1)= *Next-x f(xPrev, xPrev)+ x -xPrev f(xNext, yPrev) $f(R_2) = \frac{\times \text{Next} - \times}{1} f(\times \text{Prev}, \text{y Next}) + \frac{\times - \times \text{Prev}}{1} f(\times \text{Next}, \text{y Next})$ ① 性女 y 方 fo interpolation
fcm = yNext-yf(R1)+y-yPrevf(R2) 估久 bilinear interpolation, 先特放大海省小的圖片 上的 pixels map 图 original ing 上 , 注意使用于loor, max, min, 意象关不要超图图片大小 ■ 圖片 Shrinking 後再 Zoom 宣使圖片模糊。 但比起用 Nearest Neighbor, 图片官看起来 更自然,比較不尖銳

