# **Computer Vision 2017 Fall Homework #1 Report**

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#### Part 1.

### Language:

• Python 3.5.2

### **External Libraries:**

Numpy v1.13 : Arrays operationsMatplotlib 2.0.2 : Show Image

• Pillow 4.2.1 : Image I/O

### Benchmark:

Original Image : Lena.bmpOriginal Size : 512x512



### Results:

· Upside-down



Rightside-left



## · Diagonally-mirrored



### Part 2.

Software:

Adobe Photoshop CC 2017

Benchmark:

Original Image : Lena.bmpOriginal Size : 512x512

Results:

Rotate 45 degree clockwise
Operations:影像>影像旋轉>任意>45度順時針>確定



Shrink in halfOperations:影像>影像尺寸>%>50%>確定



Binarized at 128
Operations:影像>臨界值>128>確定

