

# **Computer Vision 2017 Fall Homework #5**

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### **Part 1.**

Language :

- Python 3.5.2

External Libraries :

- Numpy v1.13 : Arrays
- Matplotlib 2.0.2 : Draw Image/Histogram
- Pillow 4.2.1 : Image I/O

Benchmark :

- Original Image : Lena.bmp
- Original Size : 512x512



## **Part 2.**

**Dilation:**



**Erosion:**



**Opening:**



**Closing:**



