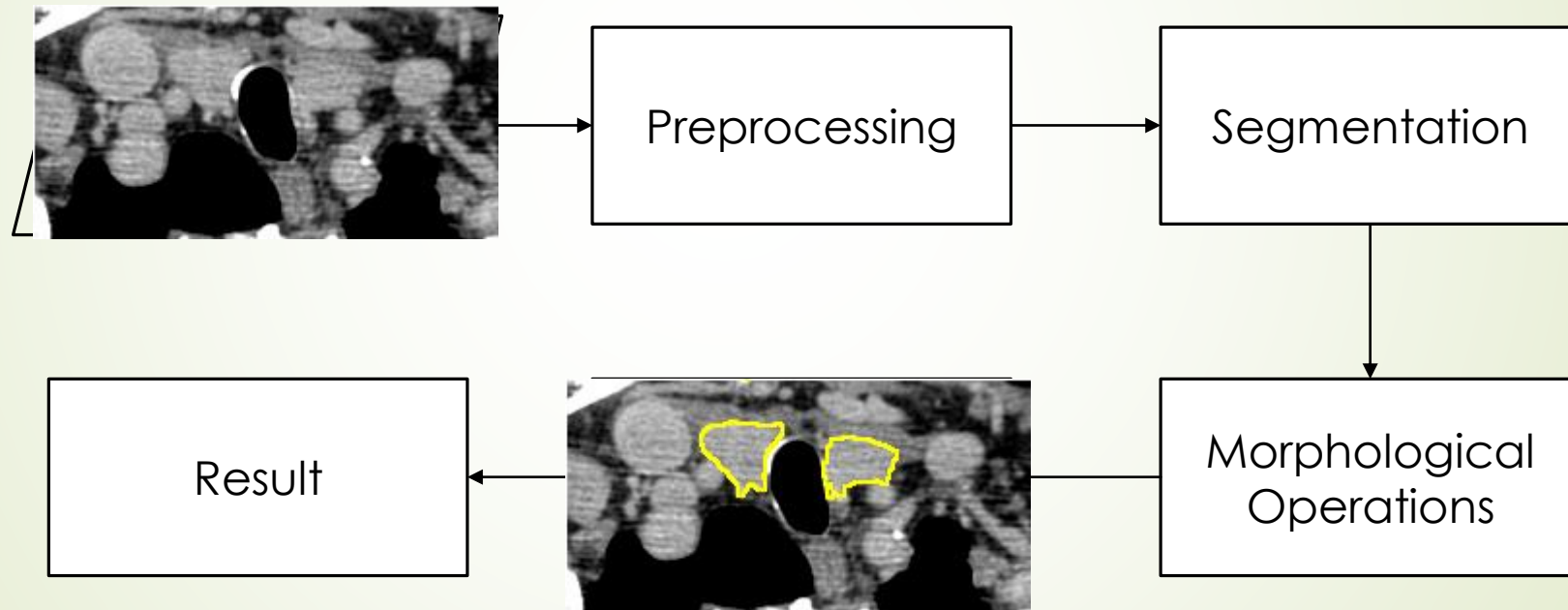




# 醫學影像處理期末專題

# General Steps of Medical Image Processing

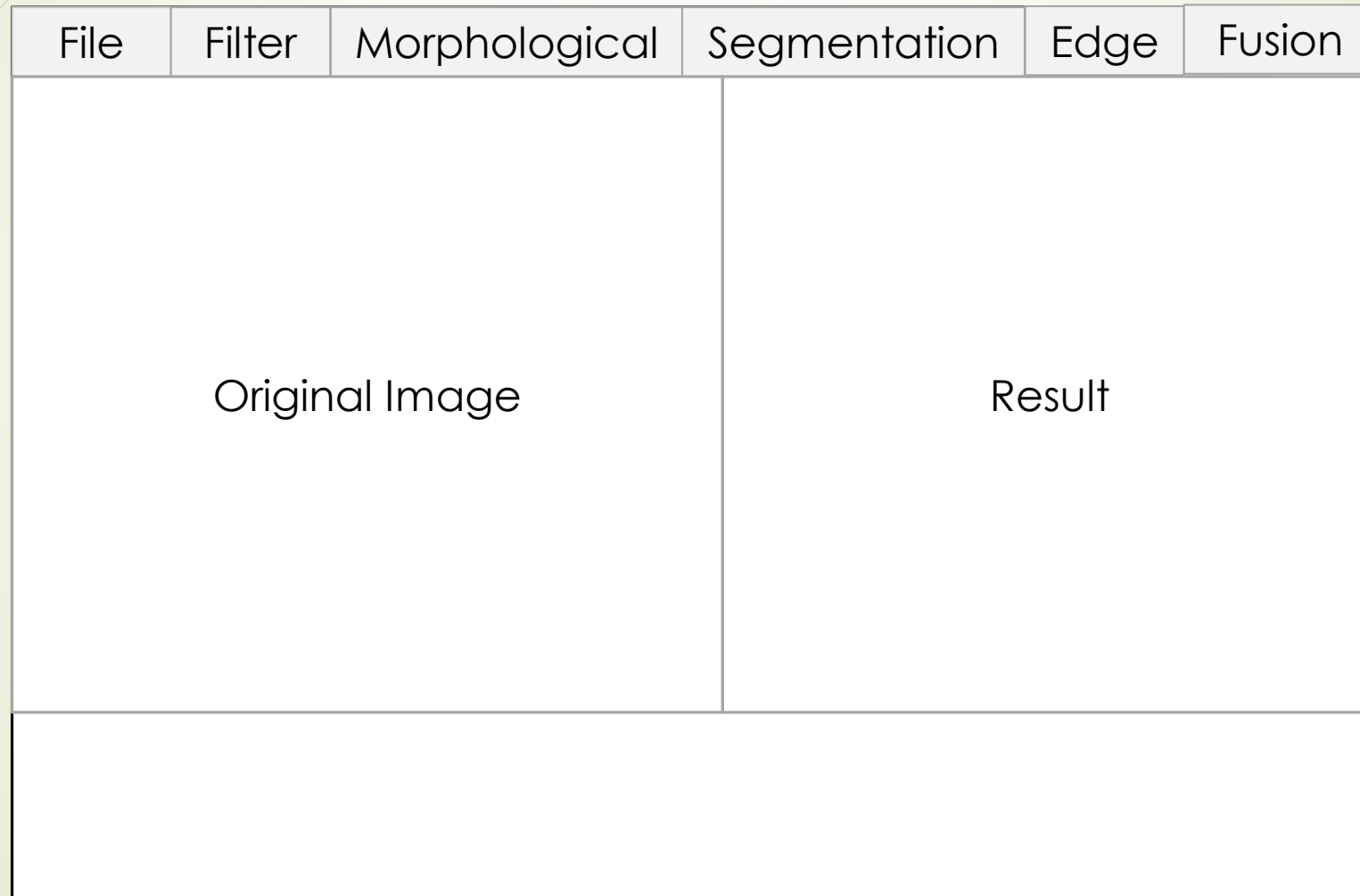




# General Steps of Medical Image Processing

- Pre-processing
  - Noise reduction, Contrast enhancement
- Processing
  - Segmentation: Thresholding, K-means, Fuzzy C-means, Region growing, Watershed, ...
  - Edge Detection: Sobel, LoG, Canny, Hough Transform...
- Morphological Operations
  - Dilation, Erosion, Opening, Closing
- Fusion
  - Contour Extraction and Fusion

# GUI for the final project





# Requirements and Due Date

- ▶ Design a system for medical image processing.
- ▶ You can use any programming languages to accomplish this work.
- ▶ Due date: **2018/6/11** (implementation demonstration)