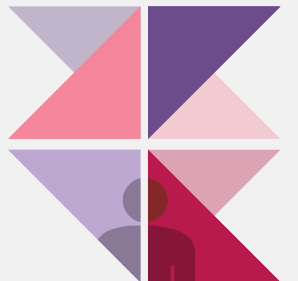# HW1
Threshold and Noise Reduction

Task Description

Threshold

- ➢ Dataset: [Data](#)
- ➢ Two Local methods
- ➢ Two Global methods excluding maximum likelihood

Noise reduction in color image

- ➢ Dataset: [Noise Lena Image](#)
- ➢ Two methods (such as RGB to HSV, Joint processing, vector filtering, … etc.)

Task Description

Threshold

Original Image	Global thresholding	Local thresholding

Task Description

Noise reduction

Original Image	HSV	Joint

Report Format and Regulations

Upload

- ➢ Report
  - ■ Method description
  - ■ Core code and Environment (including necessary libraries, version, etc.)
  - ■ Result
  - ■ Word 或 PDF (至少4頁標楷體大小為12，單行間距，左右對齊，字數至少800字(不算code))
- ➢ Program code
- ➢ 2025/10/08 23:59 (UTC+8) Upload to NCUE Cloud Server
- ➢ 遲交分數會打折，每隔一天打8折，遲交3天以0分計算

Regulations

- ➢ 關鍵程式碼不能直接呼叫opencv完成，如cv2.GaussianBlur 、cv2.threshold等
- ➢ 請自己完成作業，勿分享code與參數
- ➢ 抄襲同學(含被抄襲者)皆為0分