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## Assignment 3

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**Deadline: Tuesday, March 19, 2024 (end of day)**

### Objective

In this exercise, you will perform several binarization algorithms on a RGB image of a document and compare the different method.

### Task: Binarization

- ~~(a)~~ Conceive an algorithm to perform a binarization based on a simple non adaptative thresholding.
- ~~(b)~~ Based on a global thresholding, conceive an other binarization algorithm.
- ~~(c)~~ Design an algorithm to perform binarisation based on local adaptative thresholding.
- ~~(d)~~ Apply your algorithms on an RGB image of a document. Examples are provided in ILIAS.
- ~~(e)~~ Optional: conceive and apply a fourth binarization algorithm of your choice.
- ~~(f)~~ Submit on ILIAS:
  - Your code (one file should be enough).
  - At least four images: the original image, one binary image for each method.
  - A file text with your name, surname and a brief description of your algorithms.