

Test Assignment

Description

- 1) Implement a command line tool, that
 - a. Reads the path to a folder as a command line argument
 - b. Reads all .pgm images from the given folder into an appropriate data structure
 - c. Creates an average image from the input images where each pixel is the average of the pixels at the same coordinate
 - d. Write out the average image to a new file "average.pgm" to the same folder where the input images are located
- 2) Provide the source code to the implementation via an accessible git repository (e.g. via www.github.com or www.gitlab.com)
- 3) Provide the tool in a form that is easily executable either on Windows or MacOS
 - a. Optimally the tool should be provided as a docker image into which the input folder is mapped
 - b. Alternatively the tool can be provided as a binary or executable script if creating the docker image is too difficult

Hints

- The .pgm file format (https://en.wikipedia.org/wiki/Netpbm#File_formats) is an ASCII image format that can be viewed in an editor and is also supported by tools like Gimp and IrfanView
- A set of .pgm images can be found as part of the assignment.zip file in the folder images