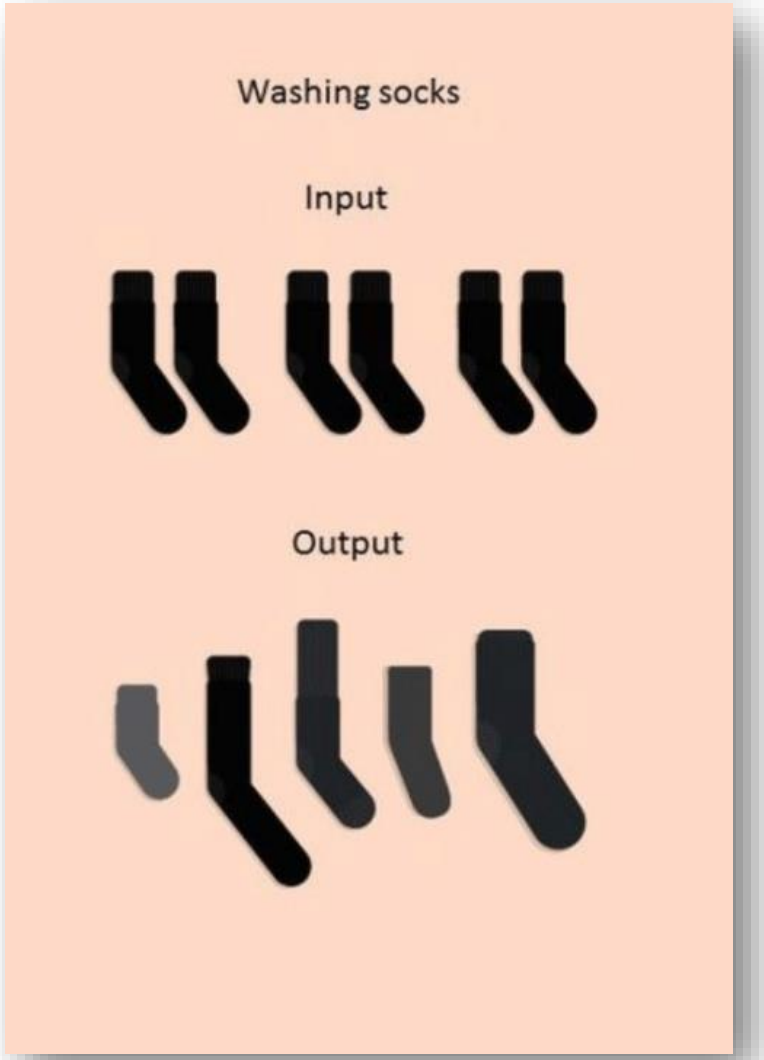
Load data and save your results

BASIC INPUT/OUTPUT



Topics

- Introduction: GUI and basic calculations
- Coding 1: Scripts, style, and variable classes
- Coding 2: Control statements and loops
- Visualization 1: Basics, subplots, get and set
- Coding 3: Functions
- Visualization 2: Descriptive plots
- Coding 4: Basic input and output
- Visualization 3: Distribution and 3D plots
- Coding 5: Input and output specials – last lecture before holidays
- Machine Learning 1: Introduction and dimension reduction
- Machine Learning 2: Clustering
- Machine Learning 3: Classification
- Coding 6: Efficiency and debugging basics
- Coding 7: Advanced functions and debugging

Input

- Copy & Paste txt into script
  - Yeah…
- Load .txt files
- Load .mat files
  - Loads a MATLAB data file into the workspace
  - data = load(‚filename‘) stores as a struct
  - Works also without ()
- Uigetfile gives you a filename and filepath to load
- Csvread reads comma-separated values
- Dlmread reads with specifieable delimiters
- Xlsread reads Excel, gives [numbers, text, raw_cell]

Output

- Save(filename), save(filename,variables)
  - Saves entire workspace or specified variables into .mat file
  - Works also without ()
- Csvwrite writes comma-separated values
- Dlmwrite writes with a specifieable delimiter
- Xlswrite writes Excel files, needs Excel installed

Complex File Reading

- fopen, fprintf, fclose
  - Powerful and complex file writing operators
  - Open file, get an ID, write into the file, close (finalize) the file
- Fopen, feof, fgetl, sscanf, fclose
  - Powerful and complex file reading operators
  - Open file, get ID, check if already at the end of file, read a single line, convert according to format, close file