Matlab fundamentals

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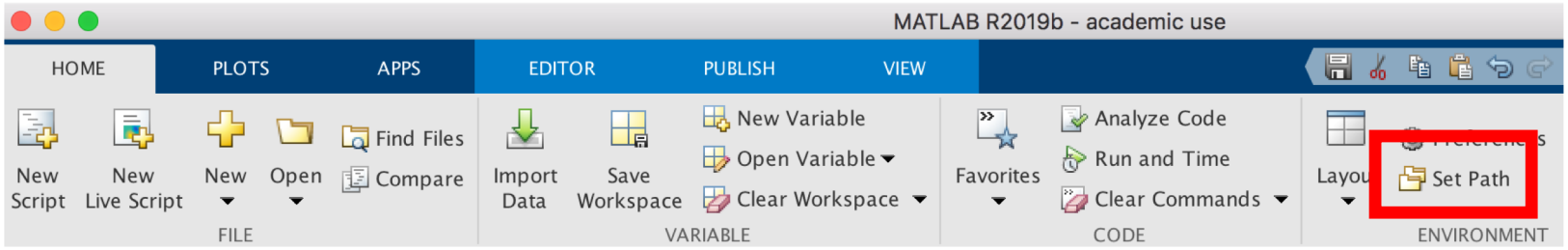
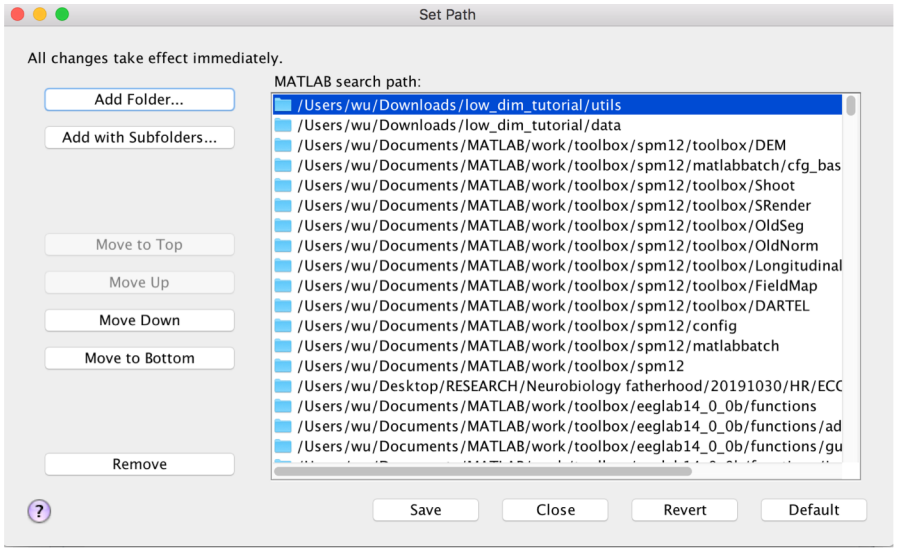
Matlab is opened. What's next?
It's ready to executive whatever comes up the command window, and use Enter to execute.
How can Matlab understand what you put in the command window?

1. Search path No. 1 – the working directory

- A folder where I store the information (data, scripts, etc) of my current project
- Usually not for shared resource (which should go to 'path')
- Can you identify your current working directory?
- Do you know how to change your working directory?

2. Search Path No. 2 -- Path

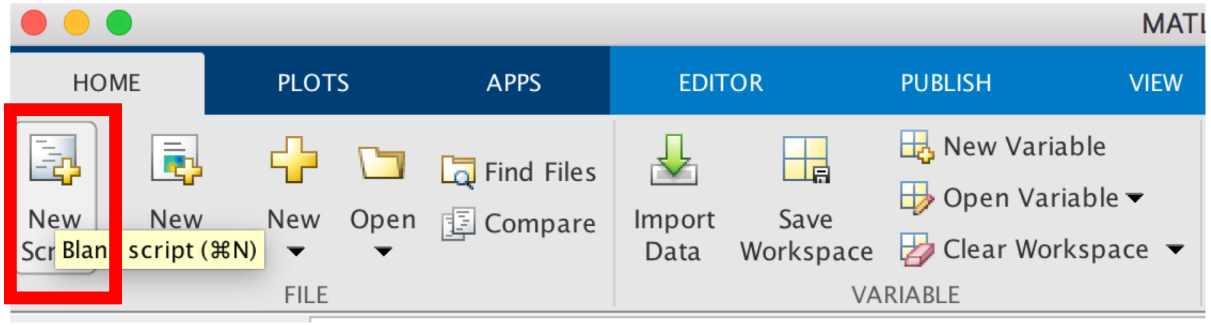


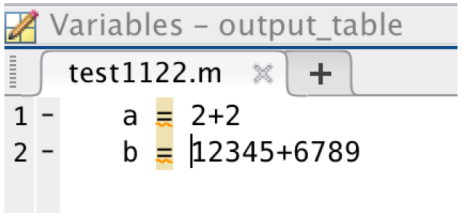


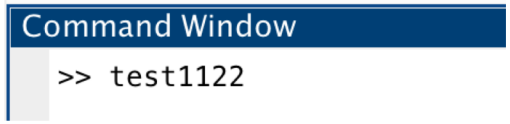
- Shared resource/functions.
- What's in your "path"? Can you change it?
- For example, you may have eeglab folders in there added from previous trainings
- The search goes from the top to the bottom in sequence
- You will see towards the bottom are matlab default libraries that does various things.

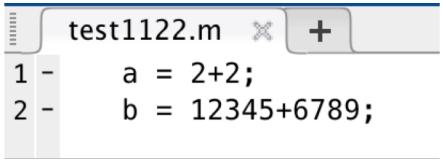
3. Let's try it- using a script

- In your current directory, create a new script, name as test1122.m
- In the script type any arithmetics:
  - a = 2+2
  - b = 12345+6789
- Then in the command window, type
  - test1122
- What is a script?
  - A collection of commands
  - All variables show up in workspace
- Let's modify it and rerun it!
  - You can use the up arrow at the command window to repeat the last command
  - add ; at the end of each line?



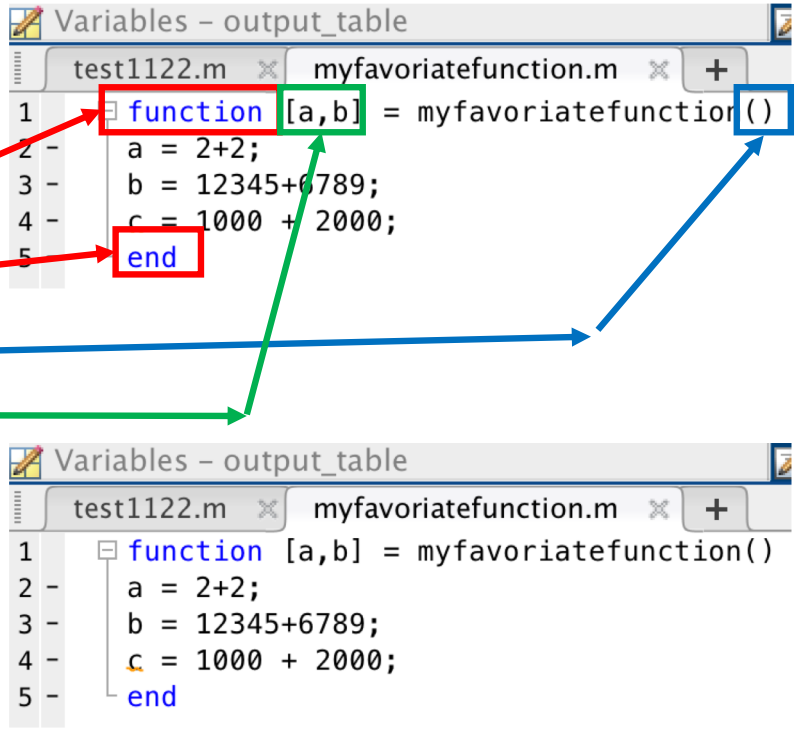






4. Another type of command -- function

- Open a new script
- Elements:
  - filename = functionname
  - Structure
  - Input
  - Output
- How to run it?
  - Without input
    - What do you get?
    - Where is variable c?



5. Modify a function

- Use a function with an input
- Modify the content