

Introduction to Computer for Engineers

Lecture 2 **Script & Function**

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SCRIPT

Basic computation in command window

SCRIPT

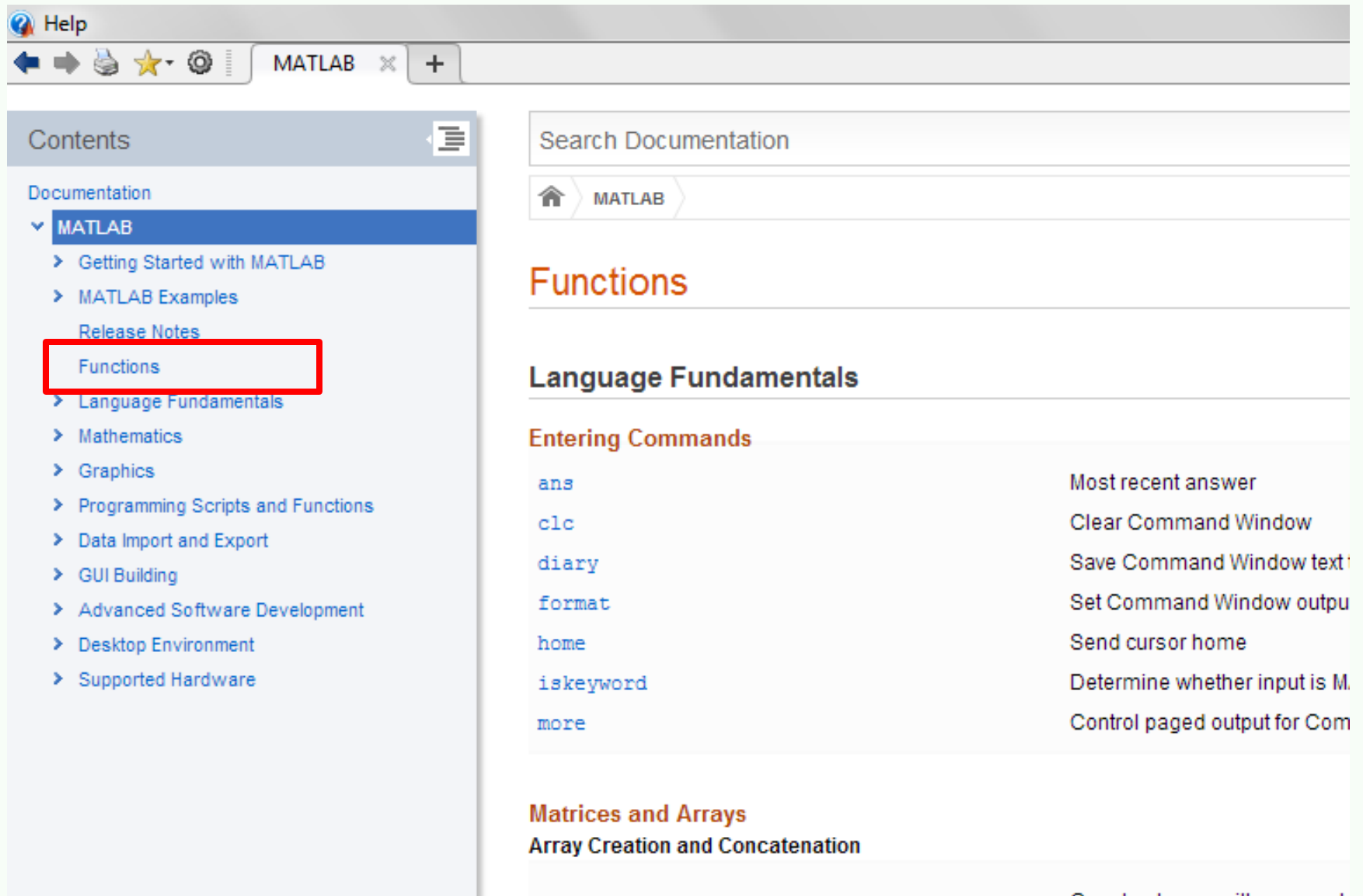
Concept of SCRIPT in MATLAB

Execution of a script

Private folder \neq Bin folder

**Script name \neq Name of all the
public functions**

SCRIPT – Public Functions



The image shows the MATLAB Help window. The left sidebar contains a 'Contents' section with a tree view. The 'MATLAB' folder is expanded, and the 'Functions' item is highlighted with a red rectangle. The main content area displays the 'Functions' section, which includes a search bar, a breadcrumb trail 'MATLAB', and a list of topics under the heading 'Language Fundamentals'. The topics listed are 'Entering Commands', 'Matrices and Arrays', and 'Array Creation and Concatenation'. The 'Entering Commands' section is expanded, showing a list of commands and their descriptions.

Help

Navigation icons: back, forward, search, star, gear, list

MATLAB

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Functions

Language Fundamentals

Entering Commands

<code>ans</code>	Most recent answer
<code>clc</code>	Clear Command Window
<code>diary</code>	Save Command Window text
<code>format</code>	Set Command Window output
<code>home</code>	Send cursor home
<code>iskeyword</code>	Determine whether input is M.
<code>more</code>	Control paged output for Com

Matrices and Arrays

Array Creation and Concatenation

PRIVATE FUNCTION

Build a private function

Function output

Function input/variable/argument

```
function y = average(x)
    y = sum(x)/length(x);
end
```

Function name

Name of private function

Store/location of private function

PRIVATE FUNCTION - Question

Under which conditions :

Build a private function in a “right way”?

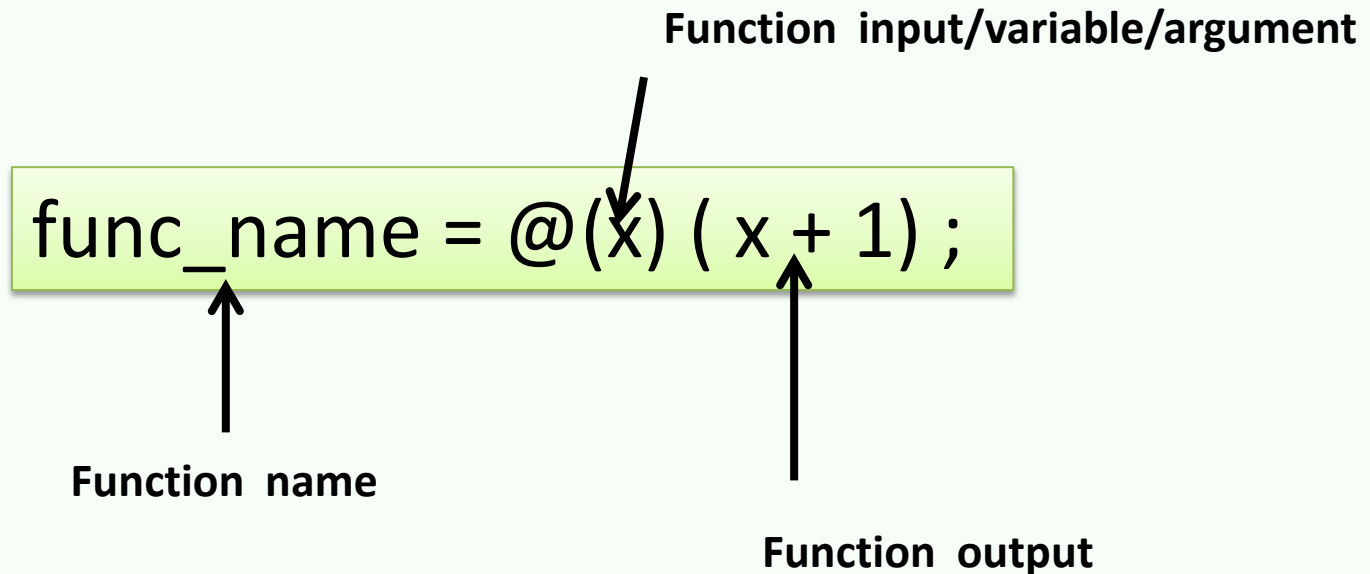
Execute it in command window?

Call it in a script?

ANONYMOUS FUNCTION

Locate/valid inside a script

No storage



SCRIPT & FUNCTION – Further Discussion

Knowledge accumulation

End of Lecture 2