

Introduction to MATLAB

• Discover the MATLAB desktop and check out the Help system

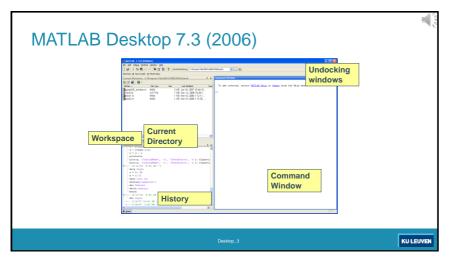
• Topics

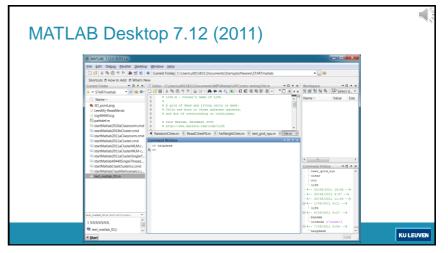
• MATLAB Desktop/IDE (Integrated Development Environment)

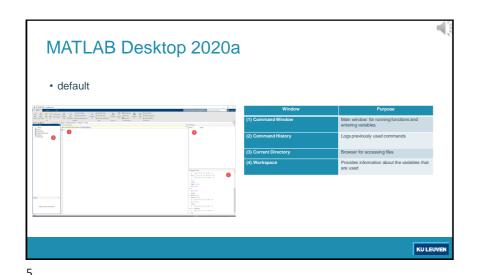
• HELP

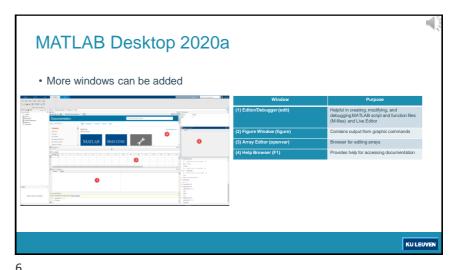
• Basic elements

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Toolstrip: upper part

• Main menu options
• Left

New Variable*
**New Pere New Open Company | Prof Files | Prof Files

Ouick Access Toolbar

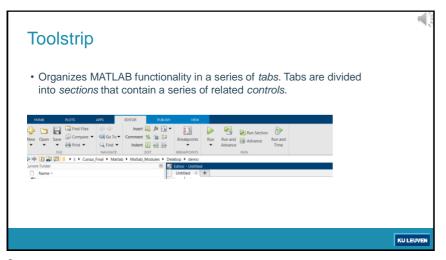
 single click access to the Toolstrip functionality you use most often.

 Any control from the Toolstrip tabs can be placed in the Quick Access Toolbar

 Add: Right click on the control and add

 Remove: Right click on any icon in the Quick Access Toolbar and select "Remove from Quick Access Toolbar"

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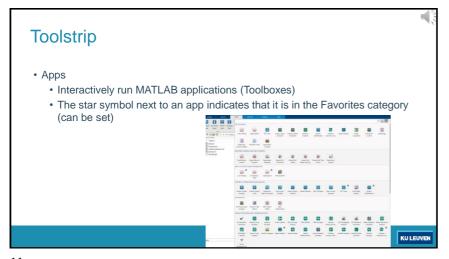
Global tabs

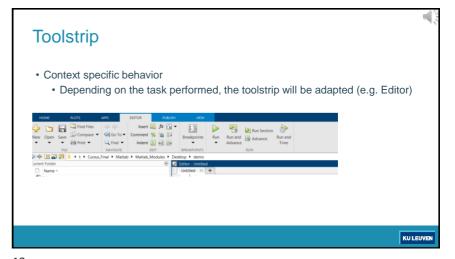
• Home

• general purpose operations: creating new files, importing data, Desktop layout.

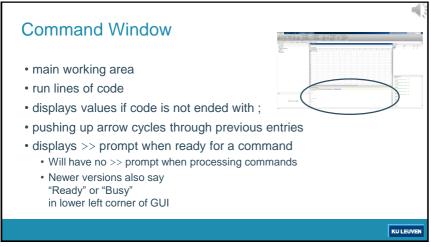
| Compared | Proceedings | Proceedings

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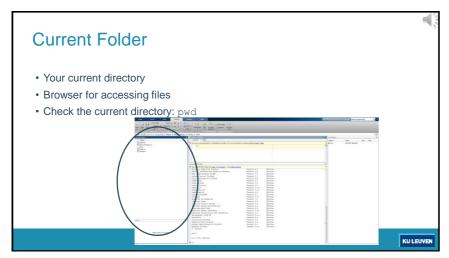


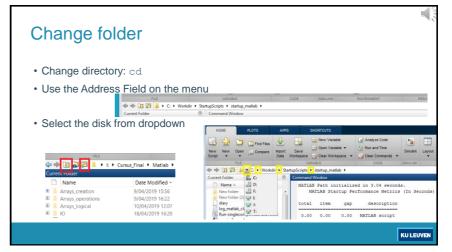


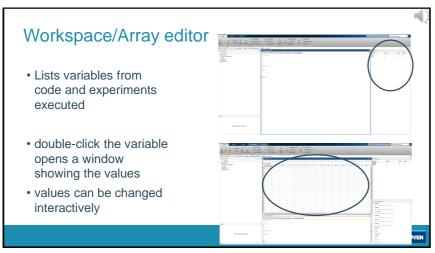
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Command Window
Several command may be typed on the same line by typing a comma (,) between the commands. Pressing the Enter key will execute the commands.
A long command can be split by typing three periods (...), pressing the Enter key, and continuing the command on the next line.
Run external programs from the MATLAB Command Window. The exclamation point character (!) is a shell escape and indicates that the rest of the input line is a command to the operating system.







Command History

• displays a log of the statements most recently run in the Command Window

• user can copy from this list one or more lines of code and paste it into the command window

• saves history (up to 20k)

• Stored in prefdir history.m

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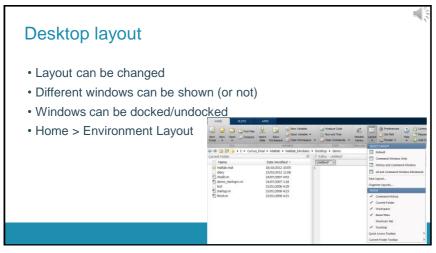


Figure window

Non-default window

where the graphics results are put

i.e. plot

as many figure windows can be opened up to memory limit

= 1:10;

y = sin(x);

plot(x,y);

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• MATLAB has a built in editor, to start it: • edit or to edit an existing code edit filename.m • Select from Home menu, click icon to start editing new file (ctrl+n) • Select file from directory (double click)

Editor

Tabbed sheets for other files being edited

Color keyed text with auto indents

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Demo / recap

- Different windows
 - Default (command window, workspace, current folder, history)
 - Extra (editor, array editor, help, figure)
- Toolstrip
- Layout
- Check the screencast: matlab_desktop_a_first_view

KU LEUVEN