Introduction to MATLAB

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January 24, 2020

1 / 12

Content

Introduction

② Getting started

Content

Introduction

Getting started

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- → The name MATLAB stands for MATrix LABoratory
 - http://www.mathworks.com
 - https://www.mathworks.com/products/matlab-online.html
- → Advantages
 - Powerful built-in functions, easy to use
 - Visualization
 - Good documents
- → Disadvantages
 - Can be slow without C++ integration (MEX -setup C++).

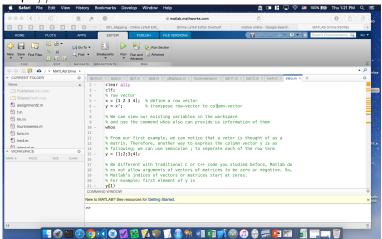
Preparing MATLAB

→ https://www.it.miami.edu



Preparing MATLAB

→ https://matlab.mathworks.com

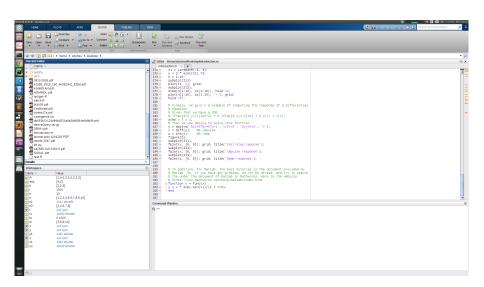


Content

Introduction

② Getting started

Getting started - MATLAB GUI



Getting started - MATLAB GUI

- → Current Folder
- → Editor
- → Command Window
- → Workspace
- → Command History (Optional)

Getting started - Documents & Help

- > help sqrt
- > doc sqrt
- $\,>\,$ lookfor regression
- > Google it!

Getting started - Source code

- > .m file
- > .mlx file (interactive MATLAB src code)
- > .cpp/.f (mex *.cpp/*.f) Speed up!

Getting started - Reference

Signals and Systems using MATLAB 1st Edition, by Luis Chaparro. So, let's try the MATLAB!