

MATLAB Resources

1. **MATLAB Help:** [Video Tutorials/Demos on Specific Topics and Features](#)
2. **MathWorks Website:** [Interactive MATLAB & Simulink Based Tutorials](#)
(http://www.mathworks.com/academia/student_center/tutorials/)
Strongly Recommended: [Interactive MATLAB Tutorial](#)
3. **MathWorks Recorded Webinars**
(<http://www.mathworks.com/company/events/webinars/index.html>)
Recommended: <https://www.mathworks.com/company/events/webinars/wbnr31351.html>
4. **MATLAB Central** → **File Exchange**
<http://www.mathworks.com/matlabcentral/fileexchange/>
5. **myWPI – SESA Training Website** (<http://blackboard.wpi.edu> → My Organizations module)
6. **Mathworks Webinar: What's New for MATLAB .**

If you have used previous versions of MATLAB (up to 2012a), please watch the webinar : What's New for MATLAB with R2012b (28:07).

<https://www.mathworks.com/company/events/webinars/wbnr72875.html?id=72875&p1=961663216&p2=961663234>

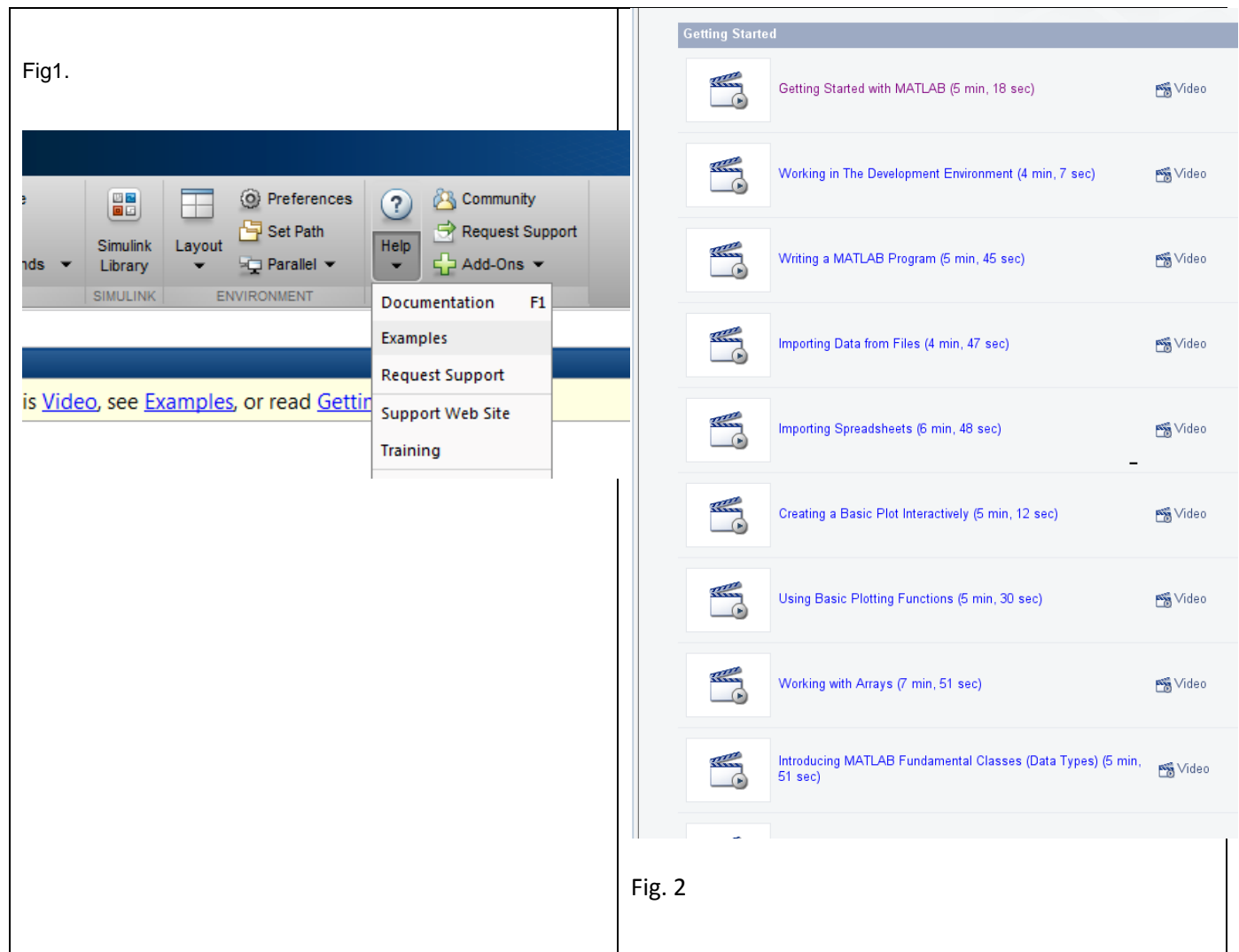
Note: We have a limited number of MATLAB licenses and our license server will manage the number of concurrent users on a first-come, first-served basis.

Please close the MATLAB session when done so that the license may be returned to the license manager for reallocation to other users. Also, please note that the toolbox licenses cannot be returned without exiting MATLAB.

1. MATLAB Help: Video Tutorials/Demos on Specific Topics and Features

Each video shows a specific feature or application example. Topics range from basic to advanced.

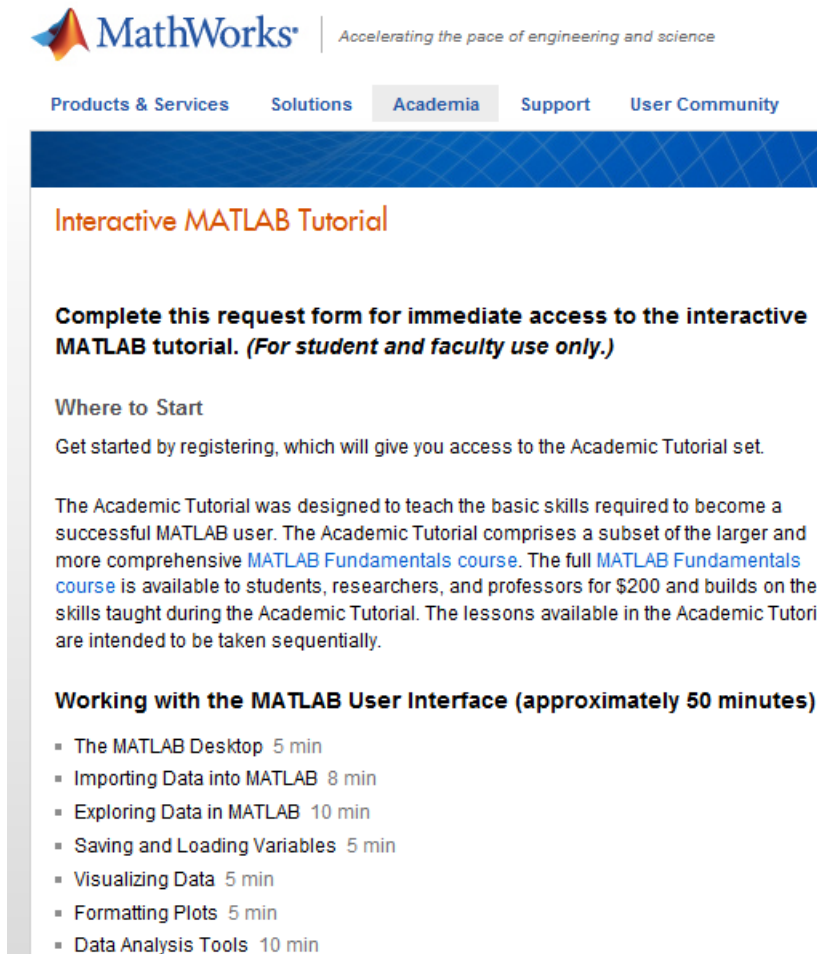
1. Open MATLAB
2. Matlab Help → Examples
3. Click the demo that you want to watch (Fig.2)



2. MathWorks Website: Interactive MATLAB & Simulink Based Tutorials

(http://www.mathworks.com/academia/student_center/tutorials/)

Note: You may be asked to create an account if you do not have one already.



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Interactive MATLAB Tutorial

Complete this request form for immediate access to the interactive MATLAB tutorial. (For student and faculty use only.)

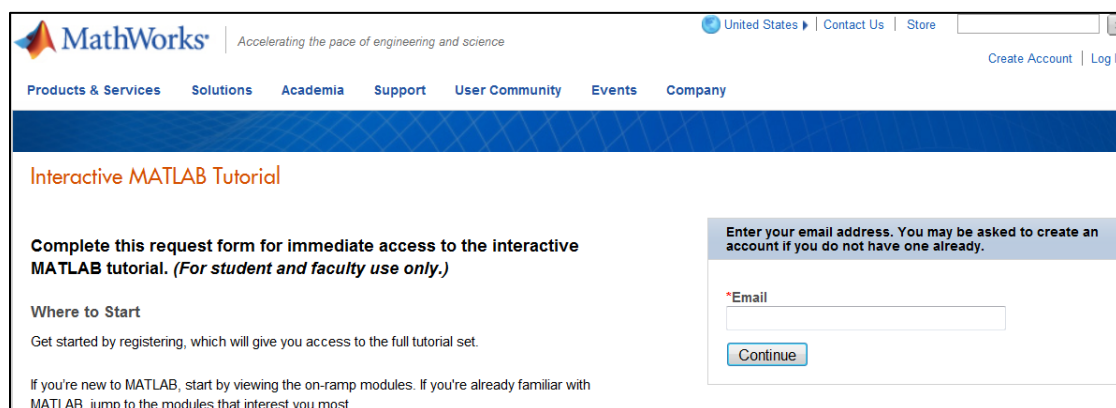
Where to Start
Get started by registering, which will give you access to the Academic Tutorial set.

The Academic Tutorial was designed to teach the basic skills required to become a successful MATLAB user. The Academic Tutorial comprises a subset of the larger and more comprehensive [MATLAB Fundamentals course](#). The full [MATLAB Fundamentals course](#) is available to students, researchers, and professors for \$200 and builds on the skills taught during the Academic Tutorial. The lessons available in the Academic Tutorial are intended to be taken sequentially.

Working with the MATLAB User Interface (approximately 50 minutes)

- The MATLAB Desktop 5 min
- Importing Data into MATLAB 8 min
- Exploring Data in MATLAB 10 min
- Saving and Loading Variables 5 min
- Visualizing Data 5 min
- Formatting Plots 5 min
- Data Analysis Tools 10 min

2.1 Strongly recommended: Interactive MATLAB Tutorial



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Interactive MATLAB Tutorial

Complete this request form for immediate access to the interactive MATLAB tutorial. (For student and faculty use only.)

Where to Start
Get started by registering, which will give you access to the full tutorial set.

If you're new to MATLAB, start by viewing the on-ramp modules. If you're already familiar with MATLAB, jump to the modules that interest you most.

Enter your email address. You may be asked to create an account if you do not have one already.

*Email

3. MathWorks Recorded Webinars

<http://www.mathworks.com/company/events/webinars/index.html>

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Recorded Webinars

English X MATLAB X

Results 1 - 25

Introduction to MATLAB 55:21
In this webinar we provide an introduction to MATLAB, a high-level language and interactive environment for numerical computation, visualization, and programming. MATLAB includes built-in mathematica...
Recorded: 13 Aug 2013 **New**

Commodities Trading with MATLAB 44:28
In this webinar you will learn how MATLAB can be used to set up, analyze, and monitor a commodities trading workflow. This webinar is for financial professionals, quantitative analysts, traders, portf...
Recorded: 25 Jul 2013 **New**

Machine Learning with MATLAB 53:39
In this webinar you will learn how to get started using machine learning tools to detect patterns and build predictive models from your datasets. In this session, you will learn about several machine ...
Recorded: 18 Jul 2013 **New**

Electrical Distribution System Modeling and Analysis in MATLAB and Simulink 40:21
In this webinar, we demonstrate how MathWorks tools may be used to investigate electrical distribution system operation. The IEEE 123 Node Test Feeder is used to explore the following topics:Create di...
Recorded: 12 Jun 2013 **New**

MATLAB for C/C++ Programmers 67:53
Learn how MATLAB can support the development and debugging of your technical C/C++ applications by visualizing your data with its prebuilt plotting functions and testing your calculations with its tru...
Recorded: 16 May 2013 **New**

Speeding Up MATLAB Applications 54:42
In this webinar we describe strategies and techniques for speeding up your MATLAB applications. Included are tips on how to optimize the performance of the MATLAB code itself and how to use the MATLAB...
Recorded: 7 May 2013 **New**

Refine by Language
English X

Refine by Product
MATLAB X
Simulink 14
Bioinformatics Toolbox 2
Communications System Toolbox 2
Computer Vision System Toolbox 3
Curve Fitting Toolbox 12
DSP System Toolbox 4

Refine by Application
Computational Finance 18
Digital Signal Processing 14
Test and Measurement 8

4. MATLAB Central → File Exchange

<http://www.mathworks.com/matlabcentral/fileexchange/>

File Exchange offers an extensive online library of files (<http://www.mathworks.com/matlabcentral/about/fx/>)

The screenshot shows the MATLAB Central File Exchange homepage. At the top, there is a search bar with the text "File Exchange" and a search icon. Below the search bar, there are navigation links for "File Exchange", "Answers", "Newsgroup", "Link Exchange", "Blogs", "Trendy", "Cody", "Contest", and "MathWorks.com". The main content area is divided into several sections:

- Files**: A sidebar menu with links for "Categories", "Authors", "Tags", and "Comments". Below this is a "Submit a File" button and an "About File Exchange" link.
- Search Files**: A search bar with "Advanced Search" and a search icon.
- Browse**: A vertical list of categories with icons: "Functions", "Apps", "Examples", "Simulink Models", "Videos", and "Drivers".
- Most Recent**: A section titled "UPS System" by John Diaz, featuring a block diagram of a power system and a 5-star rating.
- Most Popular**: A section titled "export_fig" by Oliver Woodford, featuring a 3D surface plot and a 5-star rating. The description reads: "Exports figures nicely to a number of vector & bitmap formats."

This screenshot shows the same MATLAB Central File Exchange homepage, but with a different layout for the featured content. The search bar and navigation links are identical. The sidebar menu is also the same. The main content area is divided into several sections:

- Search Files**: A search bar with "Advanced Search" and a search icon.
- 3-D Visualization**: A list of categories: "3-D Visualization", "Data Analysis", "Data Import and Export", "Desktop Tools and Development Environment", and "External Interfaces".
- GUI Development**: A list of categories: "GUI Development", "Graphics", "Mathematics", "Object-Oriented Programming", and "Programming and Data Types".
- Contact**: A link at the bottom that says "Contact us at files@mathworks.com".

5. myWPI – SESA Training Website

5.1 <http://blackboard.wpi.edu> → My Organizations module

To access SESA Training web site:

1. Log in to the blackboard.wpi.edu
2. Once you have logged into Blackboard, click the **Community** tab at the top of the page
3. In the '**Organization Search**' text box type **SESA** and click "**Go**".
4. The organization information will be displayed in the Search Results. Click the down arrow located to the right of the SESA2 and then click **Enroll**
5. An "Action Successful" enrollment message will appear on the screen. Click the **OK** button to access the organization.



The screenshot displays the myWPI Blackboard interface. At the top, the myWPI logo is visible. Below it, a navigation bar shows a home icon and the text 'MATLAB'. A red sidebar on the left lists various training modules under the heading 'SESA Training', including MATLAB, MATHCAD, ANSYS 12, ANSYS12-AnimatedTutorials, ANSYS, FLUENT, LABVIEW, CES EduPack, COMSOL, SolidWorks, Mathematica, Data Management, and Registration&Schedule. The main content area is titled 'MATLAB' and features a red navigation bar with tabs for 'Build Content', 'Assessments', 'Tools', and 'Publisher Co'. Two course listings are shown: 'Crash Course in MATLAB' and 'Matlab Refresher Course'. The 'Crash Course in MATLAB' listing includes a folder icon, the text 'Enabled: Statistics Tracking', and three lecture titles: 'Lecture 1. Introduction to Matlab', 'Lecture 2. Using Matlab', and 'Lecture 3. Matlab Visualization & Specialized Tools'. The 'Matlab Refresher Course' listing also includes a folder icon, the text 'Enabled: Statistics Tracking', and a description: 'This is an intensive training session. It is supposed that the stud'. Below this, it states 'The following topics will be covered:' followed by a list of topics: '1. Variables, Operators; 2. Matrices; 3. Matlab Functions. 4. Re Visualization; 8. Interpolation; 9. Curve fitting; 10. Numerical diff'.

5.2 MATLAB Training

<http://www.wpi.edu/webapps/regi/sesa.html>

6. How to access MATLAB at WPI

Using Remote Desktop (<http://www.wpi.edu/Academics/CCC/Help/Software/termserv.html>)

Remote Desktop, also known Terminal Services or Terminal Server, is a Microsoft Windows Server setup for remote application use. It allows WPI to provide a means for staff, faculty & students to access applications or data from off campus. It functions as if you are logged into a PC on campus.

Connecting to the WPI Windows Terminal Server Windows

(http://www.wpi.edu/Academics/CCC/Help/Software/termserv_win.html)

1. The VPN is no longer needed when connecting to the terminal server from off campus.
2. Click **Start**, and choose the following menu items: All Programs → Accessories → Remote Desktop Connection.
3. In the text box labeled **Computer:** inside the window that appears, type **windows.wpi.edu**, then click the **Connect** button.
4. You will now be connected to the terminal server remotely. To continue the session in a window rather than in full screen mode, double-click on the yellow bar at the top of the screen labeled **windows.wpi.edu**. To return to full screen mode from windowed mode, double click on the window's title bar. Click the **OK** button to acknowledge WPI's Acceptable Use Policy.
5. Type your WPI Windows username and password, then choose the ADMIN domain from the **Log on to:** dropdown. Click the **OK** button.
6. You can now use the terminal server as if you were using a WPI public lab computer. When you're finished using it, be sure to log off by choosing **Log Off** from the Start Menu.