ASCENDAS SYSTEMS

MATLAB Campus-wide License

Supported by

MathWorks®

Southeast Asia's sole distributor of

MATLAB® & SIMULINK®

Learn about us

As the sole distributor in Southeast Asia for MathWorks Inc, developer of the MATLAB® and Simulink® family of products, we provide organizations and businesses with a variety of the best tools, products and services to facilitate innovations. Our clients include many research and development institutes as well as multinational companies operating in this region.

TechSource Systems currently has offices in Singapore, Malaysia, Thailand, Vietnam and Philippines, with its headquarters based in Singapore. We are an ISO 9001:2008 certified company and has been awarded the Singapore's Outstanding Enterprise 2013 Award.

Ascendas Systems Co., Ltd. Born on 2018. 100% Subsidiary of Techsource Systems Pte Ltd (Singapore). Sole Distributor of Mathworks Products including Training & Services since 1996. Ascendas Systems Thailand Authorized by Mathworks

Deep roots in Education

"Everyone who comes in as a new hire already knows MATLAB, because they all had it in college. The learning curve is significantly lessened as a result."

Jeff Corn, Chief of Engineering Projects Section U.S. Air Force

More than **3.9 million students and over 1,200 universities** around the world—including the top 10 ranked universities—have unlimited access to MATLAB and Simulink with a Campus-Wide License.

HANDS-ON LEARNING

92,500

Faculty and students using MATLAB to program hardware

"On multidisciplinary projects, students with quite different educational backgrounds can work together more easily because they are using the same tools."

Professor Jakob Stoustrup, Aalborg University

JOB OPPORTUNITIES

82%

Fortune 100 companies with a MATLAB license

"If you want to work at Google, make sure you can use MATLAB."

Jonathan Rosenberg,
Senior Vice President of Products, Google

RESEARCH PRODUCTIVITY

2,570,000

Google Scholar results referencing MATLAB

"Our teams are here to do world-class research, and easy access to MATLAB enables them to be their most productive."

Shailesh Shenoy, Director of Research Computing,
Albert Einstein College of Medicine of Yeshiva University

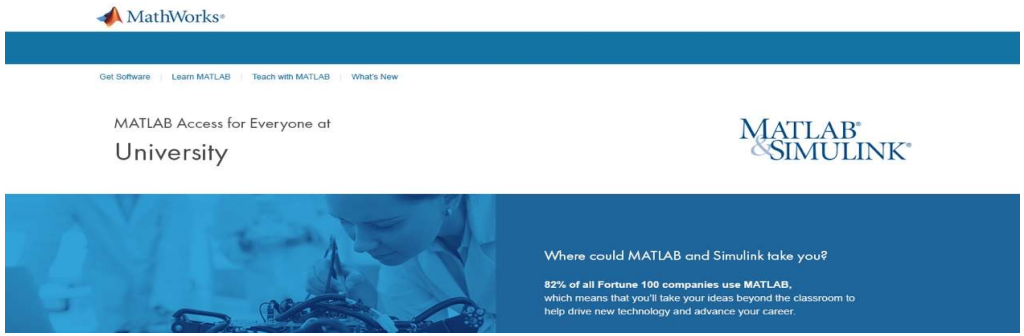
Campus-Wide License Program Overview

University & lab computers

Online access

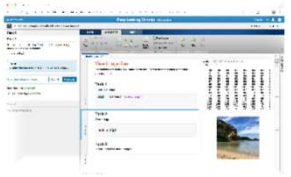
Personal Computers

Mobile Devices

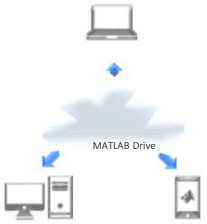


- License covers all faculty, staff, students and their devices
- Access on campus, in lab and field, and at home, including off-network
- Multiple device online and offline
- Immediate tool availability for end users via self-serve portal
- Yearly License
- There are more than 100 Toolboxs which versatile for many solution
- Academic Online Training Suite
- MATLAB Parallel Server

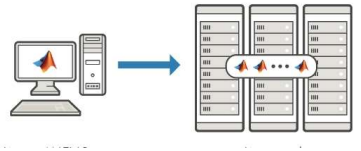
MATLAB Academy



Self-paced online learning



Cloud Storage & Sharing



Clusters & HPC

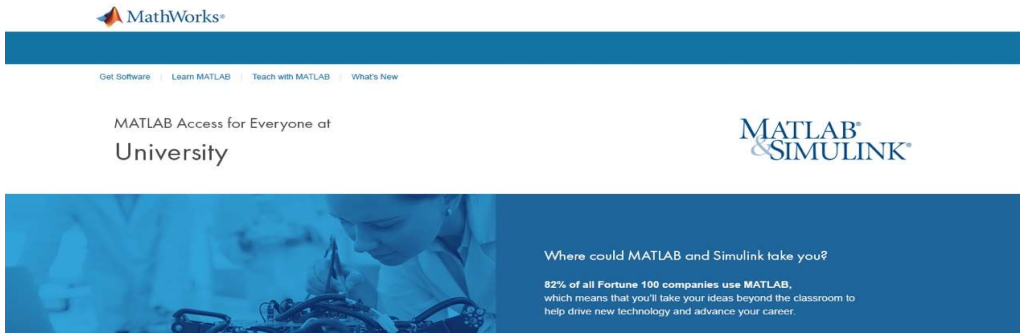
Campus-Wide License Program Overview

University & lab computers

Online access

Personal Computers

Mobile Devices



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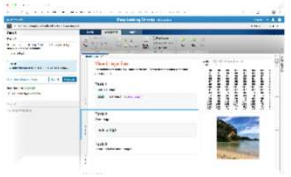
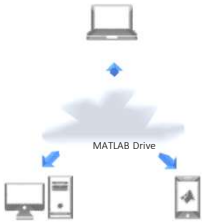
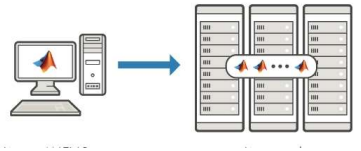


Self-paced online learning



Cloud Storage & Sharing



Clusters & HPC

Campus-Wide License Product List Version R2020b

1. MATLAB
2. *MATLAB Grader
3. *MATLAB Parallel Server
4. *MATLAB Production Server
5. *MATLAB Web App Server
6. *Polyspace Bug Finder
7. *RoadRunner
8. Online Training Suite
9. Simulink
10. 5G Toolbox
11. Aerospace Blockset
12. Aerospace Toolbox
13. Antenna Toolbox
14. Audio Toolbox
15. Automated Driving Toolbox
16. AUTOSAR Blockset
17. Bioinformatics Toolbox
18. Communications Toolbox
19. Computer Vision Toolbox
20. Control System Toolbox
21. Curve Fitting Toolbox
22. Data Acquisition Toolbox
23. Database Toolbox
24. Datafeed Toolbox
25. Deep Learning HDL Toolbox
26. Deep Learning Toolbox
27. DSP System Toolbox
28. Econometrics Toolbox
29. Embedded Coder
30. Filter Design HDL Coder
31. Financial Instruments Toolbox
32. Financial Toolbox
33. Fixed-Point Designer
34. Fuzzy Logic Toolbox
35. Global Optimization Toolbox
36. GPU Coder
37. HDL Coder
38. HDL Verifier
39. Image Acquisition Toolbox
40. Image Processing Toolbox
41. Instrument Control Toolbox
42. Lidar Toolbox
43. LTE Toolbox
44. Mapping Toolbox
45. MATLAB Coder
46. MATLAB Compiler
47. MATLAB Compiler SDK
48. MATLAB Report Generator
49. Mixed-Signal Blockset
50. Model Predictive Control Toolbox
51. Model-Based Calibration Toolbox
52. Motor Control Blockset
53. Navigation Toolbox
54. OPC Toolbox
55. Optimization Toolbox
56. Parallel Computing Toolbox
57. Partial Differential Equation Toolbox
58. Phased Array System Toolbox
59. Polyspace Code Prover
60. Powertrain Blockset
61. Predictive Maintenance Toolbox
62. Reinforcement Learning Toolbox
63. RF Blockset
64. RF Toolbox
65. Risk Management Toolbox
66. RoadRunner Asset Library
67. Robotics System Toolbox
68. Robust Control Toolbox
69. ROS Toolbox
70. Sensor Fusion and Tracking Toolbox
71. SerDes Toolbox
72. Signal Processing Toolbox
73. SimBiology
74. SimEvents
75. Simscape
76. Simscape Driveline
77. Simscape Electrical
78. Simscape Fluids
79. Simscape Multibody
80. Simulink 3D Animation
81. Simulink Check
82. Simulink Code Inspector
83. Simulink Coder
84. Simulink Compiler
85. Simulink Control Design
86. Simulink Coverage
87. Simulink Design Optimization
88. Simulink Design Verifier
89. Simulink Desktop Real-Time
90. Simulink PLC Coder
91. Simulink Real-Time
92. Simulink Report Generator
93. Simulink Requirements
94. Simulink Test
95. SoC Blockset
96. Spreadsheet Link
97. Stateflow
98. Statistics and Machine Learning Toolbox
99. Symbolic Math Toolbox
100. System Composer
101. System Identification Toolbox
102. Text Analytics Toolbox
103. Trading Toolbox
104. UAV Toolbox
105. Vehicle Dynamics Blockset
106. Vehicle Network Toolbox
107. Vision HDL Toolbox
108. Wavelet Toolbox
109. Wireless HDL Toolbox
110. WLAN Toolbox

MATLAB Grader

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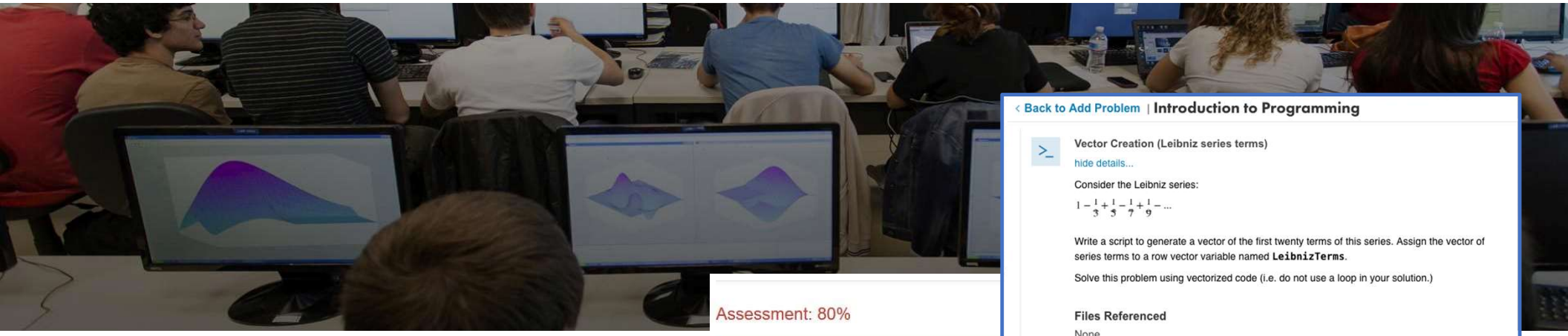
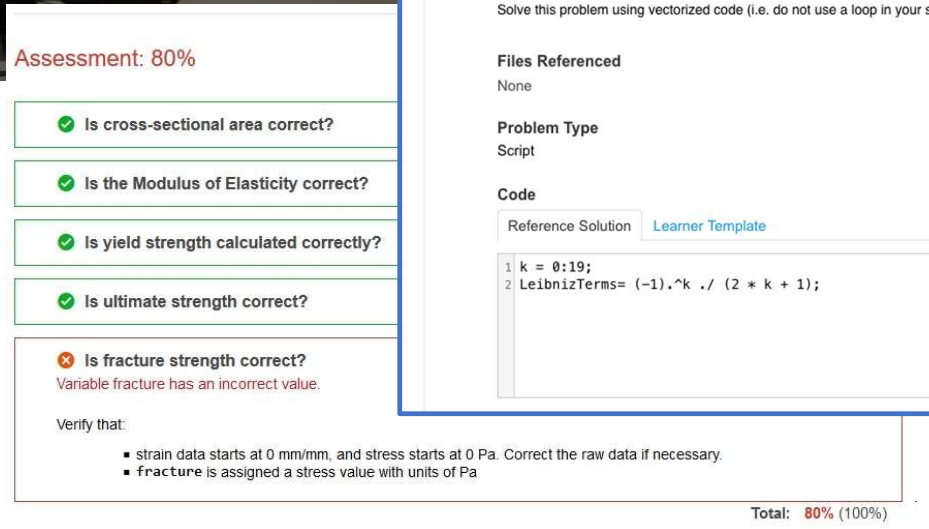
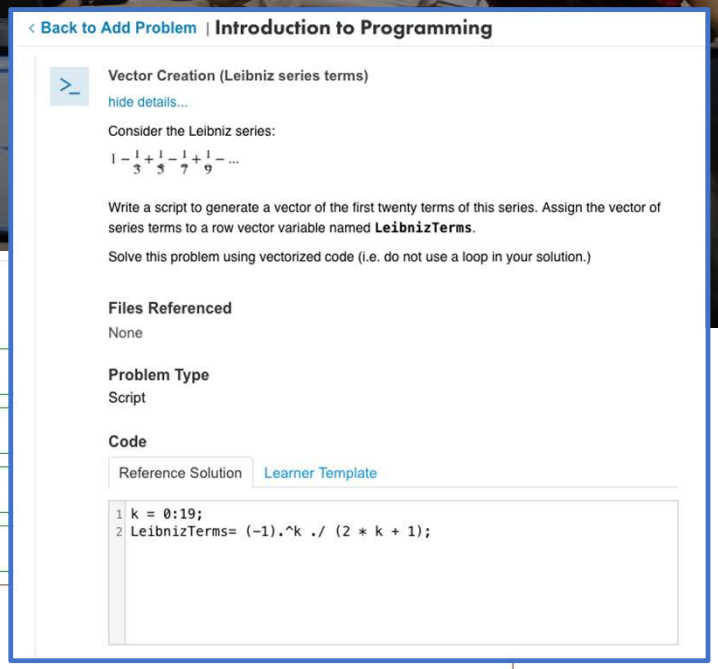


Create interactive course assignments

Automatically grade student work and provide feedback

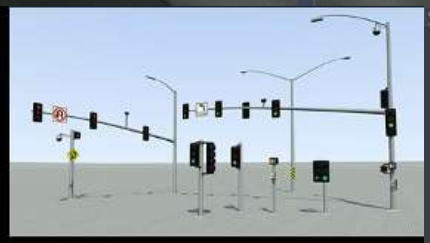
Run your assignments in any learning environment



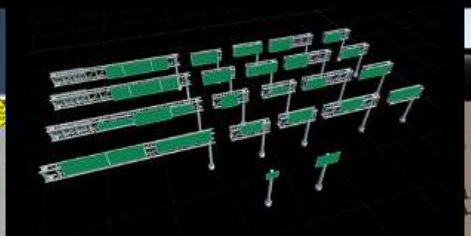


Visit grader.mathworks.com

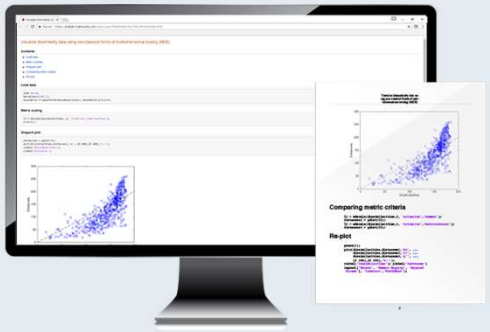

RoadRunner
Design 3D scenes for automated driving simulation




WRONG WAY
ONLY



Anytime, Anywhere Access for Faculty, Staff, Students, and Visitors



MATLAB for Desktops

Access MATLAB on personal and university-owned machines

Visit your university MATLAB portal

MATLAB Online

Access MATLAB with a web browser

Visit matlab.mathworks.com

MATLAB Mobile

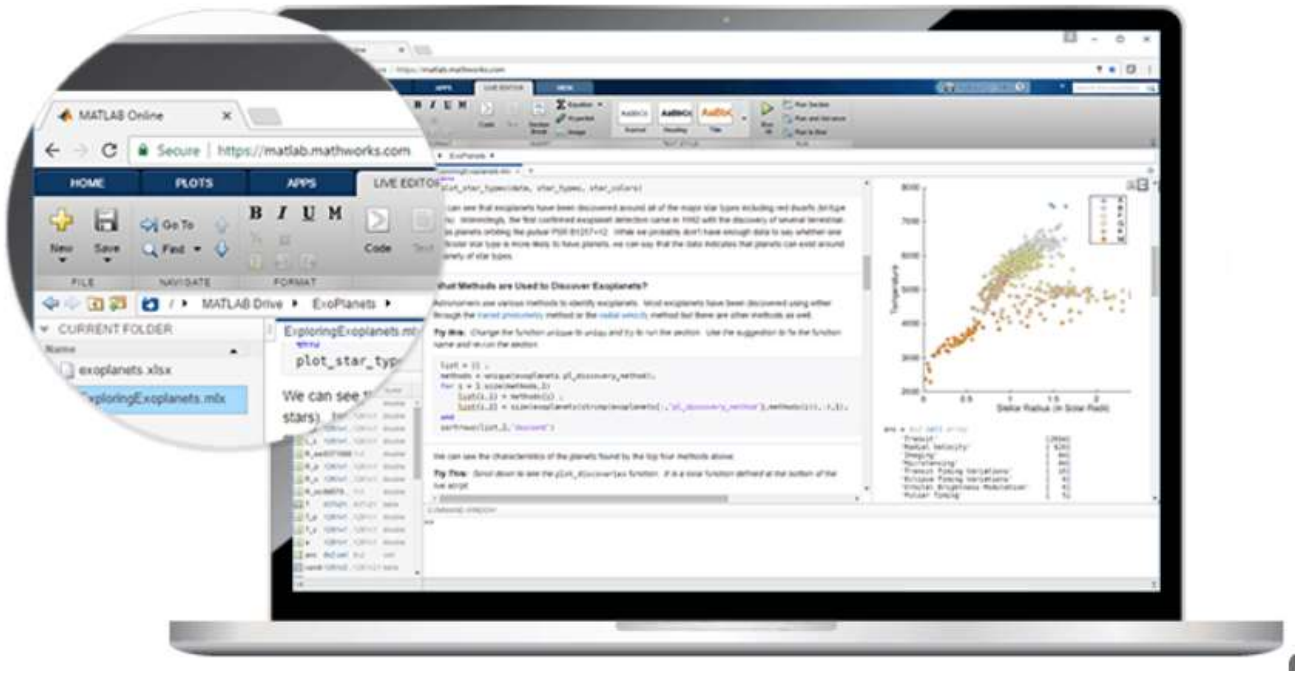
Access MATLAB on iOS/Android devices

GET IT ON Google Play

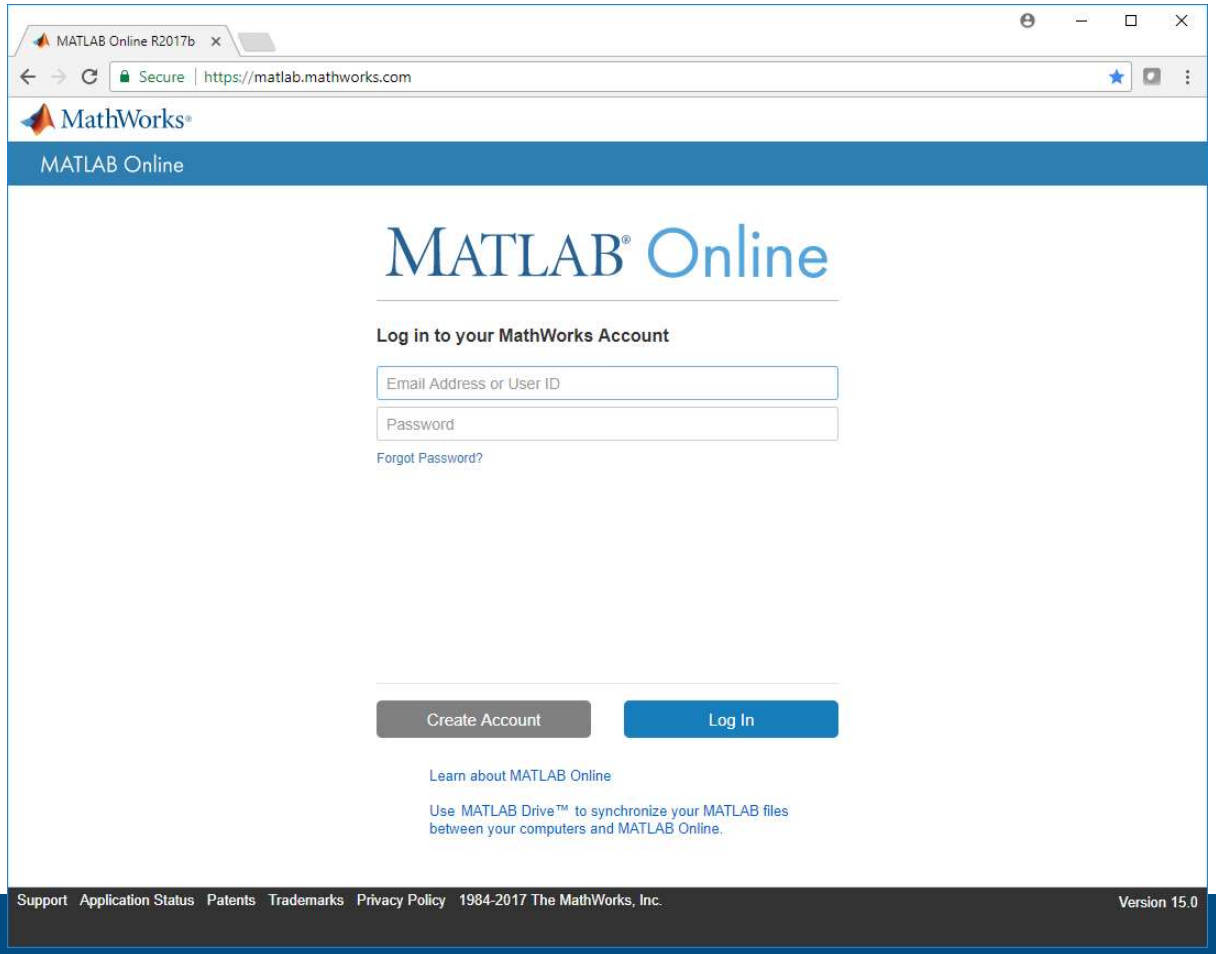
Download on the App Store

No Downloads or Installations

MATLAB Online able to use similar to MATLAB on Desktop from standard web bowser



MATLAB Online - Use MATLAB through Your Browser



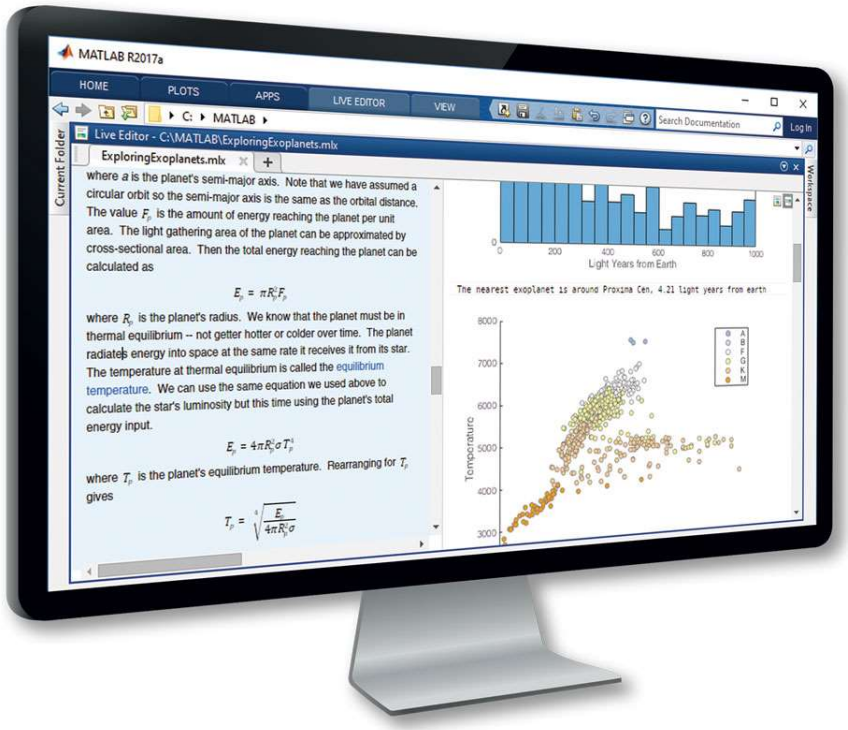
- No downloads
- No setup
- No installation
- No maintenance

- Just sign in at

matlab.mathworks.com or your University MATLAB Portal

- Use it anywhere, anytime, on any computer, laptop or Chromebook

Teach with MATLAB Live Editor



MATLAB in an Executable Notebook

Use live scripts to create engaging lectures that combine explanatory text, mathematical equations, code, and results

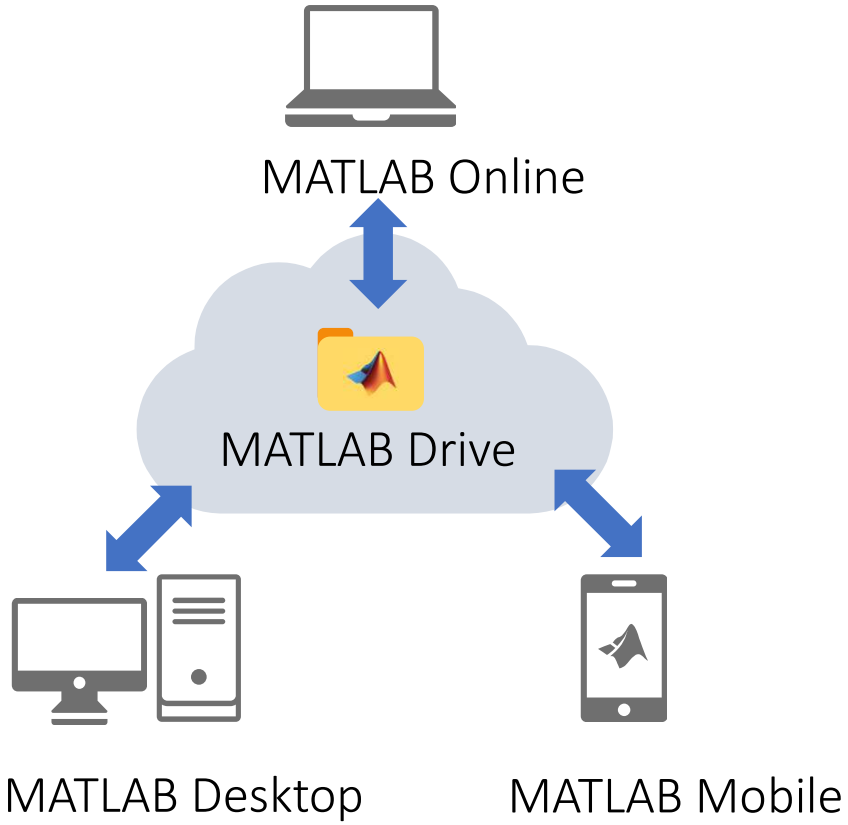
Share live scripts directly with colleagues or students

Work in a single environment to eliminate context switching

Cloud Storage and Synchronization

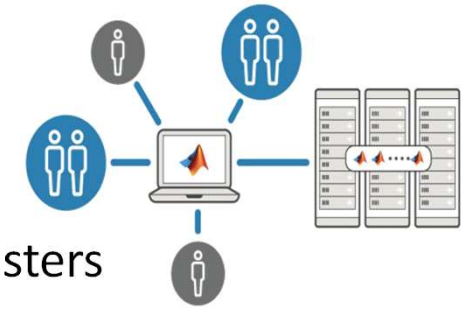
MATLAB Drive Hosted on MathWorks Cloud

- MATLAB Online provides access to 5GB of online storage through MATLAB Drive
- Access and synchronize your files with MATLAB Online, MATLAB Mobile, MATLAB Drive online, and MATLAB on your desktop
- Access hardware through the cloud
  - Raspberry Pi through wireless connection
  - IoT devices through ThingSpeak
  - Mobile sensors through MATLAB Mobile



MATLAB Parallel Server for Campus-Wide License

Included in Full Suite



- **One license, unlimited scaling for the entire campus**
  - HPC centers and central clusters can enable entire clusters New
  - Researchers and departments can set up their own MATLAB clusters
  - Self-serve cloud options are enabled New

- **Simplify license administration by consolidating**
  - For HPC, a single network activation can accommodate multiple clusters of any size
  - Researchers self-serve with online licensing once you add them as Licensed End Users

To use new model with any release

1) get updated license file and update network license manager ***OR*** 2) use online licensing

Campus-wide Access - Online Training Suite

Get started

MATLAB Onramp

Simulink Onramp

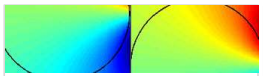
Deep Learning Onramp

Machine Learning Onramp

Stateflow Onramp

11 hours of FREE content– available for everyone

Computational Mathematics


Solving Nonlinear Equations with MATLAB


Solving Ordinary Differential Equations with MATLAB


Introduction to Linear Algebra with MATLAB


Introduction to Statistical Methods with MATLAB


Introduction to Symbolic Math with MATLAB

9 hours of short courses on computational mathematics topics

Core MATLAB


MATLAB Fundamentals


MATLAB Programming Techniques


MATLAB for Financial Applications

Data Science


MATLAB for Data Processing and Visualization


Machine Learning with MATLAB


Deep Learning with MATLAB

Over 80 hours of comprehensive MATLAB learning content

ASCENDAS SYSTEMS

MATLAB and Simulink Training

Training Overview | Find a Course | Get Certified | Training at Your Facility | More | » My Courses | Contact Training

Other available classes:

Dates	Course	Location	Language	Price	Register
On Demand	**MATLAB Fundamentals** 180 days of full access from the day of purchase	Self-Paced	Japanese	USD 500	
On Demand	**MATLAB for Financial Applications** 180 days of full access from the day of purchase	Self-Paced	Spanish	USD 500	
On Demand	**MATLAB for Financial Applications** 180 days of full access from the day of purchase	Self-Paced	English	USD 500	
On Demand	**Deep Learning with MATLAB** 180 days of full access from the day of purchase	Self-Paced	Japanese	USD 350	
On Demand	**Deep Learning with MATLAB** 180 days of full access from the day of purchase	Self-Paced	English	USD 350	
On Demand	**Machine Learning with MATLAB** 180 days of full access from the day of purchase	Self-Paced	English	USD 350	
On Demand	**MATLAB for Data Processing and Visualization** 180 days of full access from the day of purchase	Self-Paced	English	USD 200	
On Demand	**MATLAB Programming Techniques** 180 days of full access from the day of purchase	Self-Paced	English	USD 350	

Campus Wide License Program
Offer FREE !!

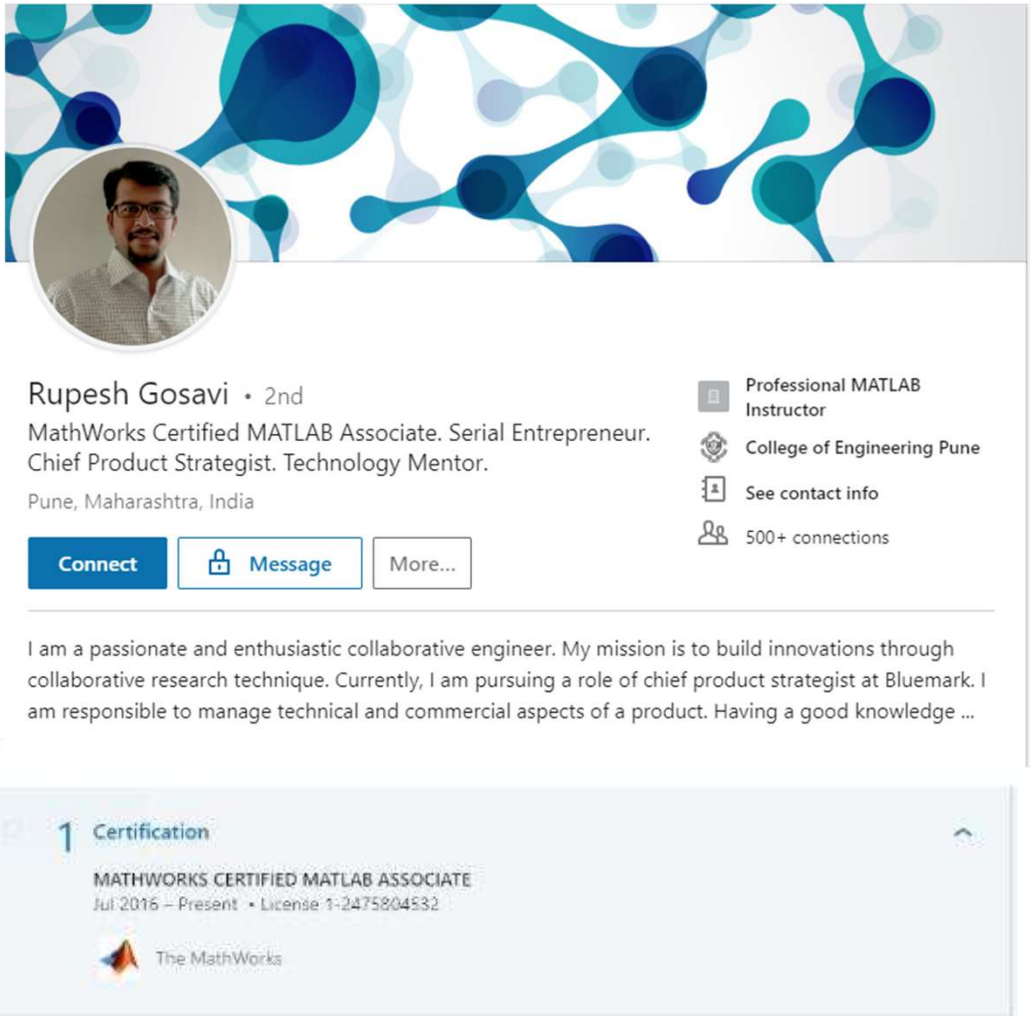
https://www.mathworks.com/training-schedule/training_cart/add_class

MATLAB Certification

Certification sets individuals apart in the job market and can help accelerate professional growth

Two paid levels of certification are offered:
Certified MATLAB Associate
Certified MATLAB Professional

Share credentials on platforms such as LinkedIn



MathWorks | Training Services

Course Completion Certificate

Sukanya Wongbandit

has successfully completed 100% of the self-paced training course

MATLAB Onramp

DIRECTOR, TRAINING SERVICES

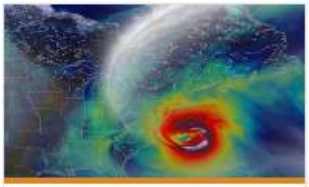
06 May 2020

MATLAB Courseware

Free sets of course materials developed by faculty from top universities Curricula available for all STEM disciplines and at multiple levels

Teaching Quantitative Finance and Risk Management with MATLAB

» Integrate MATLAB into your Quantitative Finance and Risk Management curriculum



Teaching Computational Science Using MATLAB

» Integrate MATLAB into your robust data analysis, data visualization and exploration curriculum

Teaching Biology with MATLAB

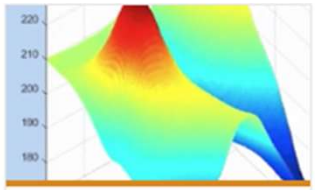
» Integrate MATLAB into your Biology curriculum

Teaching Calculus with MATLAB

» Integrate MATLAB into your Calculus curriculum

Teaching Chemistry with MATLAB

» Integrate MATLAB into your Chemistry curriculum



Teaching Geoscience with MATLAB

» Integrate MATLAB into your Geoscience curriculum

Teaching Physics with MATLAB

» Integrate MATLAB into your Physics curriculum

Teaching Psychology and Neuroscience with MATLAB

» Integrate MATLAB into your Psychology and Neuroscience curriculum

Teaching Data Science with MATLAB

» Integrate MATLAB into your Data Science curriculum

Teaching Deep Learning with MATLAB

» Integrate MATLAB into your Deep Learning curriculum

Teaching Econometrics with MATLAB

» Integrate MATLAB into your Econometrics curriculum

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MATLAB Courseware

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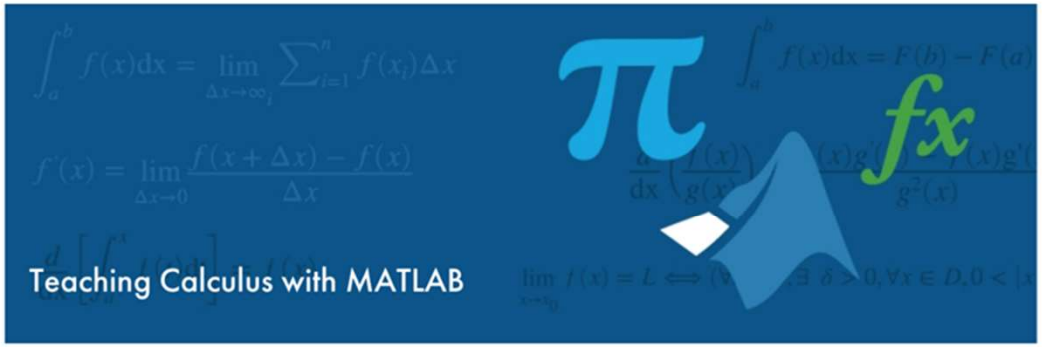


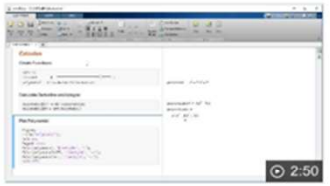
- Allow your students to effortlessly switch among visual, numerical, and algebraic representations of calculus concepts.
- Shift emphasis from manipulative skills to fundamental calculus ideas.
- Improve students' engagement (as well as concept understanding and retention) by exploring more realistic problems earlier.
- Communicate mathematical ideas using a single script that includes explanatory text, formulas, pictures, as well as MATLAB commands, outputs and graphics.
- Use powerful symbolic and numerical routines that don't stand in the way of mathematical thinking.
- Allow your students to easily check results, formulate, test and revise their own hypothesis.
- Allow students to discover calculus truths on their own using inductive as well as deductive reasoning.
- Introduce your students to world-class mathematical software that will help them throughout their studies and careers, thereby increasing their success with calculus and math.

Some Benefits of Using Computation in Calculus Courses:

Research shows that the thoughtful inclusion of computation in calculus courses (Murphy, 2006) provides a dynamic, hands-on, learning environment (Vasquez, 2015), promotes concept understanding (Awang, Zakaria, 2013, Leng et. al. 2009), keeps students engaged (Colonna, Easley, 2011), and increases their competence and confidence (Merriweather, Tharp, 1999).

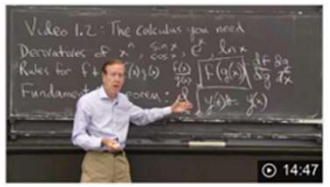
Course Materials:

Curriculum Usage Examples

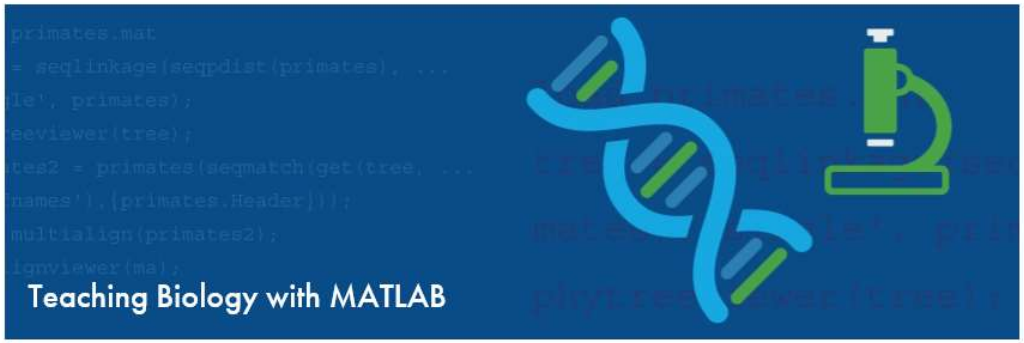


Teaching Calculus with MATLAB

MATLAB Anytime, Anywhere



Differential Equations and Linear Algebra, 1.2: The Calculus You Need



Educators strive to empower students with the necessary tools to become successful scientists. With MATLAB's built-in functions and easy syntax, integrating computation into coursework is not only feasible but also straightforward. Many educators and researchers have created tools that can be easily incorporated into curriculum.

Course Curricula

- Modeling and Data Analysis in Life Sciences- University of California, Davis
- Quantitative Biology Module- University of California, Berkley
- Boot Camp in Quantitative Methods- Harvard University
- Data Science for Biologists – University of Washington
- Theoretical Biology- University of Amsterdam
- Enzyme Kinetics with MATLAB 1 (video)- University of Michigan
- Enzyme Kinetics with MATLAB 2 (video)
- Other Curriculum Materials

Textbooks

- Physical Biology of the Cell
- Mathematics for the Life Sciences
- Understanding Complex Ecosystem Dynamics: A Systems and Engineering Perspective

Data Science for Biologists – University of Washington

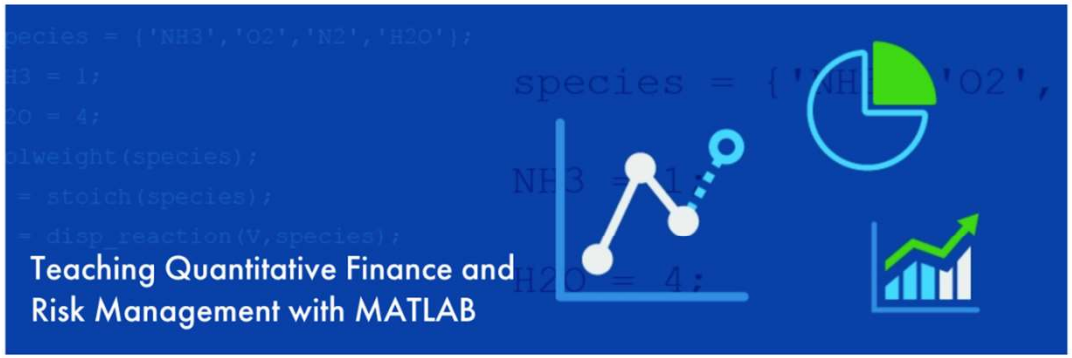
» Watch the video series

Massachusetts Institute of Technology Integrates Cancer Research in the Lab and Classroom

» Read the article

You may already have access to MATLAB through your university

» Check now



Because MATLAB makes it easy to learn and apply computational methods in quantitative finance and risk management, educators regularly choose it for teaching. Students and researchers can prototype and validate financial models, accelerate them with parallel processing, and visualize the results. Students can use interactive Live Scripts to express their ideas as computational narratives, including for homework and research projects.

Educators have created several teaching tools and resources for use in finance curricula.

Curriculum Materials

- Mathematics of Finance (University of Maryland)
- Analytics of Finance (MIT)
- Numerical Methods in Mathematical Finance (Karlsruhe Institute of Technology)
- Numerical Methods in Mathematical Finance 2 (Karlsruhe Institute of Technology)
- Quantitative Risk Management (Columbia University)

Textbooks

- Risk Management and Simulation
- Numerical Methods in Finance and Economics: A MATLAB - Based Introduction, 2e
- An Introduction to Financial Option Valuation: Mathematics, Stochastics, and Computation

MATLAB for Quantitative Finance and Risk Management

Learn how MATLAB is used in the financial services industry

Estimating Risk-Neutral Density from Option Prices with a MATLAB App

» Read the article

Related MathWorks Products

Database Toolbox
Datafeed Toolbox
Financial Instruments Toolbox
Financial Toolbox
Optimization Toolbox
Parallel Computing Toolbox
Risk Management Toolbox
Spreadsheet Link (for Microsoft Excel)
Statistics and Machine Learning Toolbox
Trading Toolbox

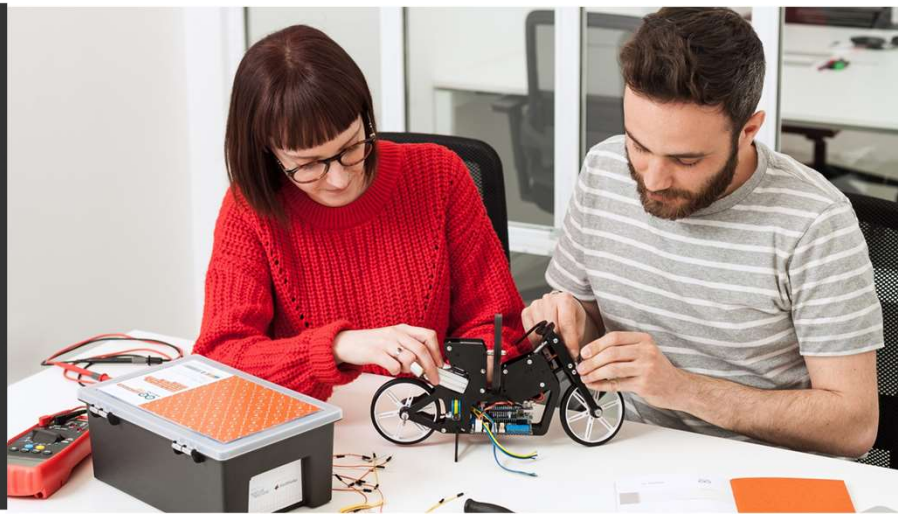
Low-Cost Hardware Curriculum Support for MATLAB

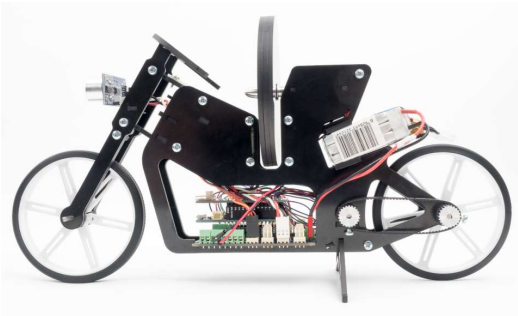
Arduino Engineering Kit

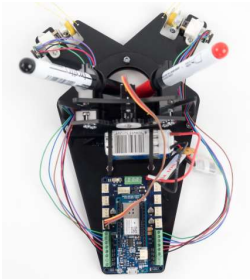
Includes Arduino MKR1000 board and all components to create three engaging, hands-on projects:

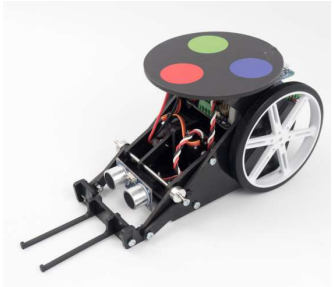
- self-balancing motorcycle
- mobile rover
- drawing robot

Online learning materials that facilitate project-based learning









ARDUINO ENGINEERING KIT

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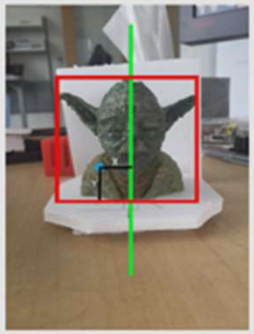
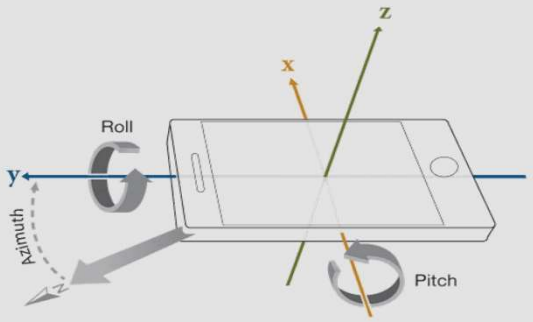
Project-based learning with low-cost hardware

Self-balancing robots using
LEGO and Arduino



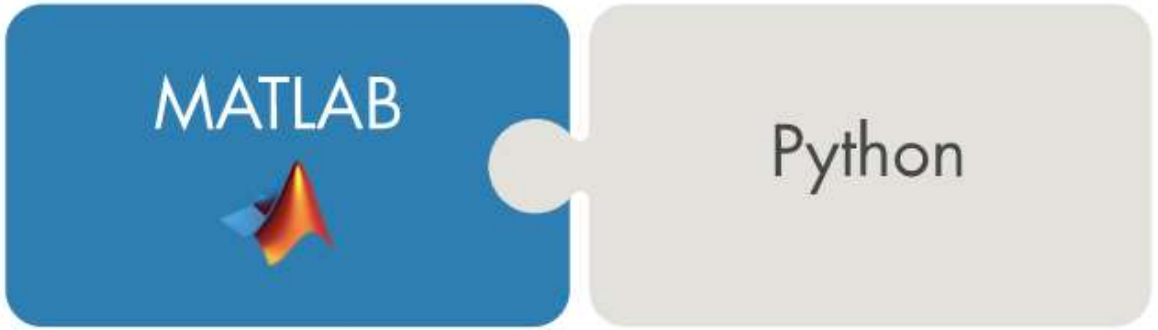
MATLAB based 3D Scanner using
Raspberry Pi



Sensor support for **Android**
and iOS devices

MATLAB : New Software Development Features

- Call Python libraries in a separate process to avoid library conflicts



SKF

September 16

"Selling MATLAB Where Python is Present"

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