

Estudando com o MATLAB

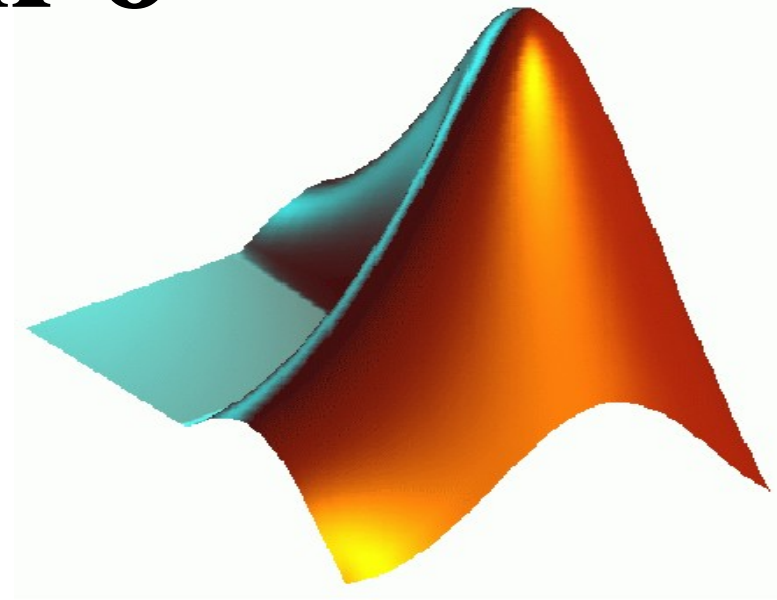
Curso de Extensão

Docentes:

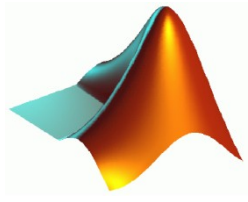
- > Fabiano Araujo Soares
- > Marcelino M. de Andrade

Monitor:

- > Luan Felipe



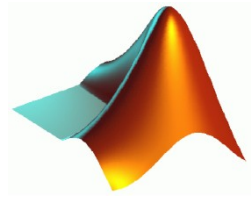
Aula 1: Onde e como?



- Onde testar e comprar o Matlab?
- Quais são as ferramentas similares?



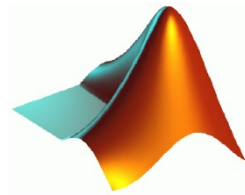
Aula 1: Onde e como?



- Matlab: <http://www.mathworks.com/>



Aula 1: Onde e como?



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- Simulink HDL Coder
- SimEvents
- xPC Target
- Polyspace code verifiers

MATLAB Featured Products

- Parallel Computing Toolbox
- Bioinformatics Toolbox
- Data Acquisition Toolbox
- Instrument Control Toolbox
- Econometrics Toolbox

R2010b Now Available

Released September 3, 2010 [» Learn More](#)

MATLAB & SIMULINK

Featured Resources

- [» Download Free Interactive Technical Kits](#)
Expand your productivity with product demonstrations, webinars, white papers, articles, and more.
- [» Interactive Control Systems Tutorial](#)
Learn how to model, analyze, and design control systems using MathWorks products.
- [» Try the Latest Versions of MathWorks Products](#)
Get trial versions of MATLAB, Simulink, and other R2010b products.

Events

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MATLAB VIRTUAL CONFERENCE 2010

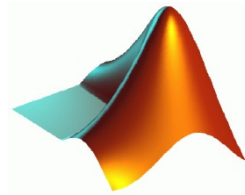
September 28

Featured Events

- [Addressing Energy Data Analysis Challenges with MATLAB \(Free Seminar\)](#)
- [Benefits of Using Modular Design with Stateflow \(Upcoming Webinar\)](#)



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Student Version provides the essential tools for your courses in engineering, math, and science.

This package includes:

- MATLAB 7.10
- Simulink 7.5
- Add-on products that extend MATLAB and Simulink:
 - Control System Toolbox 8.5
 - Image Processing Toolbox 7.0
 - Optimization Toolbox 5.0
 - Signal Processing Blockset 7.0
 - Signal Processing Toolbox 6.13
 - Statistics Toolbox 7.3
 - Symbolic Math Toolbox 5.4
- Complete electronic documentation on DVD

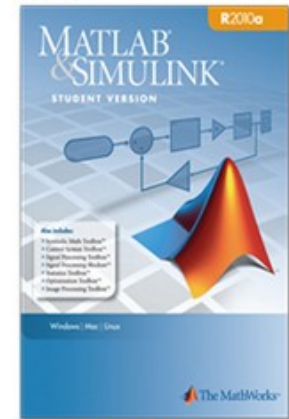
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We accept the following credit cards:



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Requires proof of student status.



Requires activation

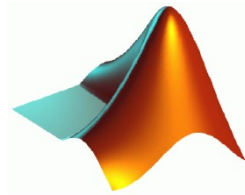
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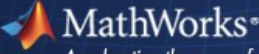
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Select Your Release and Platform

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Please select a release and a platform for MATLAB & Simulink Student Version and optional add-on products.

Release 2010a
(Download MATLAB 7.10, Simulink 7.5, and add-on products)

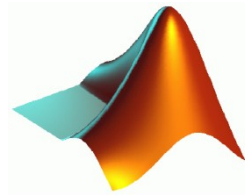
- Windows
- Linux
- Mac (Intel processor and OS X 10.5 Leopard required)

Release 2009a
(Download add-on products only)

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- Linux
- Mac (Intel processor and OS X 10.5 Leopard required)



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Products for MATLAB & Simulink Student Version Release 2010a - Windows

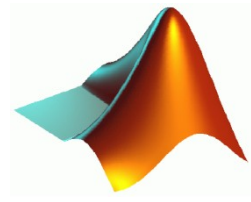


- Add-on products are available via download only (and require MATLAB & Simulink Student Version).
- Activation and proof of student status are required to use the software.

 Indicates product dependencies  Sort Alphabetically

| Product | Notes | Price | Add to Cart |
|---|---|-------------|--------------------------|
| Core Product | | | |
| MATLAB & Simulink Student Version R2010a | Includes MATLAB, Simulink, Control System Toolbox, Image Processing Toolbox, Optimization Toolbox, Signal Processing Blockset, Signal Processing Toolbox, Statistics Toolbox, Symbolic Math Toolbox | USD \$99.00 | <input type="checkbox"/> |
| Math and Optimization | | | |
|  Global Optimization Toolbox | | USD \$29.00 | <input type="checkbox"/> |
|  Partial Differential Equation Toolbox | | USD \$29.00 | <input type="checkbox"/> |
| Statistics and Data Analysis | | | |



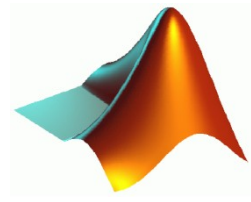


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O Matlab, versão de estudante já inclui:

- MATLAB R2010a
- Simulink
- Control System Toolbox
- Image Processing Toolbox
- Optimization Toolbox
- Signal Processing Blockset
- Signal Processing Toolbox
- Statistics Toolbox
- Symbolic Math Toolbox





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Math and Optimization

Global Optimization Toolbox USD \$29.00

Partial Differential Equation Toolbox USD \$29.00

Statistics and Data Analysis

Curve Fitting Toolbox USD \$29.00

Neural Network Toolbox USD \$29.00

Spline Toolbox USD \$29.00

Control Systems Design and Analysis

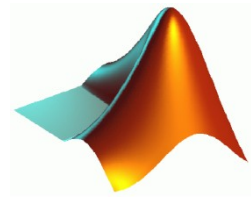
Fuzzy Logic Toolbox USD \$29.00

Model Predictive Control Toolbox \$29.00

Robust Control Toolbox USD \$29.00

System Identification Toolbox USD \$29.00





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Signal Processing and Communications

Communications Toolbox USD \$29.00

Filter Design Toolbox USD \$29.00

Fixed-Point \$29.00

RF Toolbox USD \$29.00

Wavelet Toolbox USD \$29.00

Image Processing

Mapping Toolbox USD \$29.00

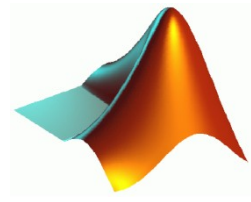
Test and Measurement

Data Acquisition USD \$29.00

Image Acquisition Toolbox USD \$29.00

Instrument Control Toolbox USD \$29.00





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Computational Biology

Bioinformatics Toolbox USD \$29.00

Computational Finance

Datafeed Toolbox USD \$29.00

Econometrics Toolbox USD \$29.00

Financial Derivatives Toolbox USD \$29.00

Financial Toolbox USD \$29.00

Fixed-Income Toolbox USD \$29.00

Application Deployment

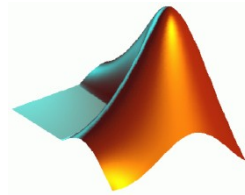
Spreadsheet Link EX \$29.00

Database Connectivity and Reporting

Database Toolbox USD \$29.00

MATLAB Report Generator USD \$29.00





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MATLAB Product Family

Parallel Computing Toolbox MATLAB USD \$29.00

Simulink Product Family

Simulink Report Generator USD \$29.00

Fixed-Point Modeling

Simulink Fixed Point USD \$29.00

Event-Based Modeling

SimEvents USD \$29.00 USD \$29.00

Physical Modeling

SimDriveline USD \$29.00

SimElectronics USD \$29.00

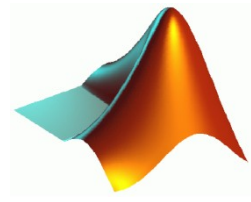
SimHydraulics USD \$29.00

SimMechanics USD \$29.00

SimPowerSystems USD \$29.00

Simscape USD \$29.00





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Simulation Graphics

Simulink 3D Animation USD \$29.00

Control System Design and Analysis

Aerospace Blockset USD \$29.00

Aerospace Toolbox USD \$29.00

Simulink Design Optimization USD \$29.00

Simulink Control Design USD \$29.00

Signal Processing and Communications

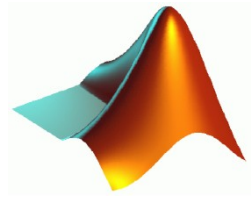
Communications Blockset USD \$29.00

SimRF USD \$29.00

Video and Image Processing Blockset USD \$29.00



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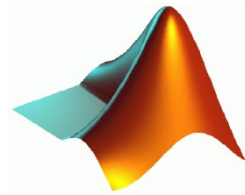


Programas alternativos ao Matlab:

1) **Scilab:** <http://www.scilab.org/>



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Download Scilab
(Windows 95 MB)
Other Systems

News

Equalis Appointed Worldwide Exclusive Provider for Scilab Online Support

Press Release, September 21, 2010
Equalis will provide on-line support, phone support, training and on-site consulting for Scilab users.

GPU/HPC Development engineer

The Scilab Consortium is recruiting a GPU/HPC Development engineer for the 1st of November 2010.

Workshop on Scilab Advanced

The second edition of the 5 days workshop hold a workshop on Scilab Advanced, From September 27th till October 1st, 2010, to Pune (India).

Administrative and Financial manager

The Scilab Consortium is recruiting an Administrative and Financial manager.

Release of Scilab 5.3.0-beta 3

Scilab 5.3.0-beta 3 is a test version provided to the community before the final release.

This version includes many bug fixes, new performance improvements including first HPC features, an improved and refactorized text editor, some major ergonomics developments of Xcos and ATOMS existing tools and new GUI functionalities.



- [Scilab 5.3.0-beta 3 for download >>](#)
- [What's new in Scilab 5.3.0-beta 3 ? >>](#)
- [Changes between Scilab 5.3.0-beta 2 and beta 3>>](#)

Quick links

- [Scilab Enterprises >](#)
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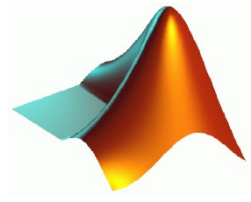
Focus

Community's Documents

A new section has been opened on Scilab website to highlight the community's documentations and publications about Scilab.
To consult them >>



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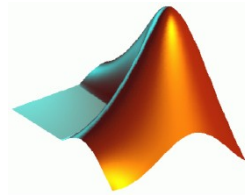


Programas alternativos ao Matlab:

2) Octave: <http://www.gnu.org/software/octave/>

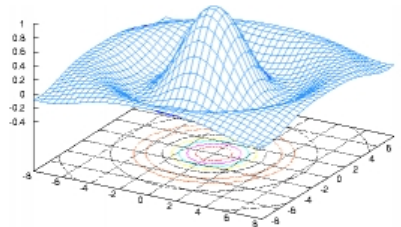


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Octave

| |
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GNU Octave is a high-level language, primarily intended for numerical computations. It provides a convenient command line interface for solving linear and nonlinear problems numerically, and for performing other numerical experiments using a language that is mostly compatible with Matlab. It may also be used as a batch-oriented language.



For more information, see the page [about Octave](#).

Current News

August 1, 2010

A new snapshot of the current development version of Octave is available for ftp (3.3.52). You should only be using this version if you are interested in testing the latest features and don't mind hitting the occasional bug.

March 24, 2010

A new snapshot of the current development version of Octave is available for ftp (3.3.51). You should only be using this version if you are interested in testing the latest features and don't mind hitting the occasional bug.

March 24, 2010

We are now using the [a bug tracker](#) to manage bug reports instead of the bug@octave.org mailing list. Fow now, the list will continue to function, but you are strongly encouraged to use the tracker instead.

January 28, 2010

Version 3.2.4 has been released and is now available for ftp. Octave 3.2.4 is a bug-fixing release [NEWS](#) file for a list of user-visible changes in the 3.2.x series.

For older news, see the [news archive](#).

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