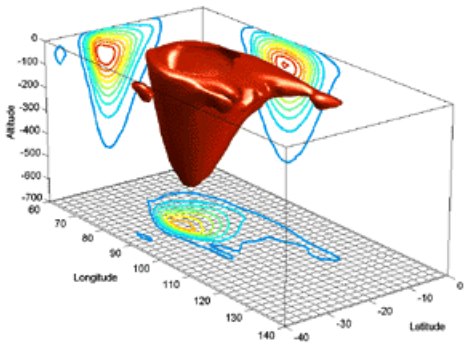
# Matlab

MATLAB is an integrated technical computing environment that combines numeric computation, advanced graphics and visualization, and a high-level programming language.

Whatever the objective - an algorithm, analysis, graph, report, or simulation - MATLAB gets you there. The flexible, interactive MATLAB language lets engineers and scientists express their technical ideas simply. The extensive and powerful numeric computing methods and graphics allows testing and exploring alternative ideas easily, while the integrated development environment makes it easy to produce fast, practical results.

The name MATLAB stands for matrix laboratory. MATLAB was originally written to provide easy access to matrix software developed by the LINPACK and EISPACK projects, which together represent the state of the art in software for matrix computation. Today MATLAB is used in a variety of application areas including signal and image processing, control system design, financial engineering, and medical research. The open architecture makes it easy to use MATLAB and companion products to explore data and create custom tools that provide early insights and competitive advantages.

The MATLAB Product Family includes tools for:
- Data analysis and visualization
- Numeric and symbolic computation
- Engineering and scientific graphics
- Modeling, simulation, and prototyping
- Programming, application development, and GUI design
- Converting MATLAB programs automatically to standalone C and C++ code




MATLAB also features a family of application-specific solutions called toolboxes. Very important to most users of MATLAB, toolboxes are comprehensive collections of MATLAB functions (M-files) that extend the MATLAB environment in order to solve particular classes of problems. Researched and developed by experts in their fields, toolboxes let you learn, apply, and compare best-of-class techniques, allowing you to evaluate different approaches without writing the code.

Areas in which toolboxes are available include signal processing, control systems design, dynamic systems simulation, systems identification, neural networks, and others.

http://www.mathworks.com/products/matlab/

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