webMathematica is the clear choice for adding interactive calculations to your website. It allows you to build websites that let users compute and visualize results on your site from any web browser or web-enabled device.

webMathematica provides a collection of tools that enables Mathematica® commands to be placed inside HTML pages; each time a particular page is requested from the server these commands are processed by a Mathematica session.

In addition, these tools control the Mathematica sessions on the server and provide support such as launching, initialization, session pooling, and automatic restart.

KEY BENEFITS
• Deploy calculators, algorithms, and problem solvers over the web or intranets without having to install and administer software on individual machines.
• Build custom websites that provide specialized calculations to premium customers.
• Sell or rent value-added services to technical professionals.
• Showcase Mathematica-based work in interactive web documents.
• Deliver sophisticated courses over the web, including highly interactive courseware.
• Publish interactive textbooks and book supplements over the web. Administration and content generation can be separated completely to minimize development and maintenance effort.

MAJOR ADVANTAGES OF webMATHEMATICA

Compatibility
Built around Java servlets, a proven server technology, webMathematica is fully compatible with state-of-the-art dynamic web systems.

Computational ability
webMathematica makes most Mathematica functions available for website development. Developers can add numerical, symbolic, and graphical applications to websites, delivering the power of Mathematica from any web browser.

Rapid prototyping and large-scale computation
Mathematica’s high-level, interactive programming language is very well suited to rapid prototyping, so it decreases your development time and effort. webMathematica also scales well, so it is ideal for large intensive computations.

Typesetting system
webMathematica contains a powerful typesetting system that can generate results to web browsers as images, PDF, XML, SVG, and MathML, the W3C recommendation for mathematical typesetting on the web.

Connection technology
Other software can readily be incorporated into webMathematica with MathLink® technology. It is particularly easy to connect Java into webMathematica with J/Link™, providing many exciting possibilities for web development.

Professionally designed web page templates
Included in webMathematica are professionally designed web page templates that let even beginning web designers create appealing websites quickly.

Easy administration
webMathematica takes care of session pooling and failure recovery. Administration and content generation can be separated completely to minimize development and maintenance effort.

For more information, visit www.wolfram.com/webmathematica.
## General Mathematica Features

- Over 1900 built-in functions, including the world’s largest collection of advanced algorithms for numeric and symbolic computation, discrete mathematics, statistics, data analysis, graphics, visualization, and general programming
- Multi-paradigm symbolic programming language with support for procedural, functional, list-based, object-oriented, and symbolic programming constructs
- Automatic precision control and support for exact integers of arbitrary length, rationals, floating-point real and complex numbers, and arbitrary-precision real and complex numbers
- User-defined or automatic algorithm selection for optimal performance
- Fully programmable 2D and 3D visualization with over 50 built-in plot types
- High-speed numerical linear algebra with performance equal to specialized numeric libraries
- High-performance optimization and linear programming functions
- Wide-ranging support for sparse matrices
- Flexible import and export of over 70 data, image, and sparse matrix formats
- Highly optimized binary data I/O
- Industrial-strength string manipulation
- Built-in universal database connectivity
- Language bindings to C, Java, .NET, Python, and scripting languages
- All-platform support for 64-bit addressing
- Vector-based performance enhancements
- Support for multi-core processors

## Technical Requirements

- webMathematica is available for Windows, Mac OS X, Linux, Unix, and compatible systems. For a more detailed list, see [www.wolfram.com/webmathematica/specifications](http://www.wolfram.com/webmathematica/specifications).

## Other Requirements

- Servlet container supporting both the Servlet Specification 2.2 (or higher) and JSP Specification 1.2 (or higher)
- Java Development Kit (JDK) 1.4 (or higher)

## Components

- Mathematica 5.2
- LiveGraphics3D applet
- webMathematica web application
- webMathematica kernel manager

## Purchasing webMathematica

In the U.S. and Canada, you can order webMathematica by calling 1-800-WOLFRAM (965-3726) or sending email to orders@wolfram.com. For international customers, we recommend that you place your order through your local Mathematica reseller, listed at [www.wolfram.com/international](http://www.wolfram.com/international).

To request a price quote, please send email to info@wolfram.com or complete the information request form at [www.wolfram.com/services/info](http://www.wolfram.com/services/info). It is helpful if you include your server computer platform as well as your academic, commercial, or governmental affiliation.

For more information, visit [www.wolfram.com/webmathematica](http://www.wolfram.com/webmathematica).