



## GNU Octave

Free Your Numbers

GNU Octave is a high-level interpreted language, primarily intended for numerical computations. It provides capabilities for the numerical solution of linear and nonlinear problems, and for performing other numerical experiments. It also provides extensive graphics capabilities for data visualization and manipulation. Octave is normally used through its interactive command line interface, but it can also be used to write non-interactive programs.

Your donations help to fund continuing maintenance tasks, development of new features and the organization of Octave conferences.

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### Feature Highlights

- ☑ Mostly Matlab-compatible
- ☑ Graphical User Interface with an integrated Debugger
- ☑ Profiler
- ☑ Object-Oriented Programming
- ☑ Feature-rich: Linear Algebra, Differential Equations, Optimization, Nonlinear Equations, Numerical Integration, Plotting, and much more.

[→ Learn more](#)

### Expand

- ☑ Expand Octave's core functionality by installing additional packages from Octave-Forge
- ☑ Find packages for Image and Signal Processing, Fuzzy Logic, Instrument Control, Statistics, and many more.

[→ Go to Octave-Forge](#)

**May 8, 2013** – Registrations for OctConf 2013 are now open! **January 28, 2013** – OctConf 2013 will take place in Milano, Italy during June 24-26, 2013. All Octave users, developers, and enthusiasts are welcome to attend! **August 1, 2012** – ESA approved two students to work for Octave under the SOCIS mentorship programme! Congratulations to Wendy Liu and Andrius Sutas who will be working on finishing the Agora website and low-level I/O respectively.

