SAGE

Free Open Source Mathematics Software

http://www.sagemath.org

General and advanced pure and applied mathematics
Use SAGE for studying a huge range of mathematics, including algebra, calculus, elementary to very advanced number theory, cryptography, numerical computation, commutative algebra, group theory, combinatorics, graph theory, and exact linear algebra.
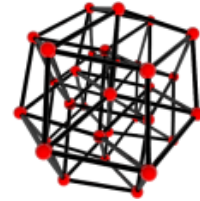
Use an open free alternative
By using SAGE you help to support a viable free open source alternative to Magma, Maple, Mathematica, and MATLAB. SAGE includes many high-quality open source math packages.

Use most mathematics software from SAGE
SAGE makes it easy for you to use most mathematics software together. SAGE includes interfaces to Magma, Maple, Mathematica, MATLAB, and MuPAD, and the free programs Axiom, GAP, GP/PARI, Macaulay2, Maxima, Octave, and Singular.

Use a standard language
You work with SAGE using the highly regarded scripting language Python instead of an obscure language designed for a particular mathematics program. You can write programs that combine serious mathematics with anything else.

Create notebooks with a web-based graphical interface
Use SAGE from your web browser, which connects either to a program running on your computer, or a program running elsewhere. With the SAGE notebook you can create embedded graphics, beautifully typeset mathematical expressions, add and delete input, and start up and interrupt multiple calculations.
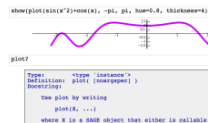
Be curious
SAGE gives you easy access to documentation and source code. Type plot? for help on the plot command and plot?? to see the source code. If X is anything, type X.[tab key] to see all commands that apply to X.

Download SAGE for Windows, Mac OS X, and Linux
SAGE does much more than just make it very easy to install or build from source most major open source math programs. Download SAGE now.

SAGE Days 7
The Seventh SAGE workshop is at IPAM (UCLA), February 5–9, 2008.
See http://wiki.sagemath.org/days7.