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## **Maxima Tutorial**

The Computer Algebra Program Maxima - a Tutorial. Preliminary version from Feb 15, 2005; revised Aug 28,

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2005. Distribution is encouraged, comments are welcome and should be mailed to the editor. Editor: Boris.Gaertner@gmx.net

## **Maxima Tutorial**

This is the first in a tutorial series on how to use the programs Maxima and wxMaxima. Maxima is a free and open source math program that is incredibly useful because it does

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algebra instead of...

## **Maxima CAS 0: Introduction - YouTube**

Maxima help: opens the Maxima Manual window with description and examples of Maxima commands. Describe: produces a dialogue where the user can enter the name of a specific command. Try, for example, plot3d, and press OK. The

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dialogue will access the section of the Maxima Manual corresponding to the requested command.

## **Introduction to Maxima - Palomar College**

It doesn't recognize two values next to each other as a multiplication; we always need to use an asterisk (\*). Maxima treats e like any other variable variable: a , b ,



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$c$  ,  $d$  ,  $e$  ,  $f$ . To get the constant, we need to use `%e`. Similarly, we would need to use `%pi` and `%i` to get those constants.

## **Getting Started with Maxima - Philip Chung (Moved to ...**

The instruction `subst` instructs Maxima to substitute a list of equations appearing as the first argument of `subst` , enclosed in square brackets, into

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the expression appearing as its second argument. Maxima 's default is to produce exact calculations, not numeric approximations. Thus,  $da/dt = 14400$  .

## **A wxMaxima Guide for Calculus Students**

Maxima distinguishes lower and upper case. All built-in functions have names which are

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lowercase only (sin, cos, save, load, etc). Built-in constants have lowercase names (%e, %pi, inf, etc). If you type SIN(x) or Sin(x), Maxima assumes you mean something other than the built-in sin function. User-defined functions and variables can have names

## **Introduction to Maxima**

Maxima Tutorial.  
Contents. Use of Lisp.

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Maxima is written in Lisp, a really unique programming language that was developed by John McCarthy at MIT. The earliest publication about Lisp is possibly: McCarthy, John: Recursive Functions of Symbolic Expressions and Their Computation, Part I Communications of the ACM, Vol. 3, April 1960, pp. 184-195. To enter a piece of Lisp, you write:

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## **Maxima Tutorial**

Maxima is a computer algebra system, implemented in Lisp. Maxima is derived from the Macsyma system, developed at MIT in the years 1968 through 1982 as part of Project MAC. MIT turned over a copy of the Macsyma source code to the Department of Energy in 1982; that version is now known as DOE Macsyma. A copy of

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DOE

## **Maxima Manual - University of Cambridge**

Maxima user interface tips — a collection of tips for customizing and interacting with the Maxima user interface. Graphics with Maxima by Wilhelm Haager; Rules and patterns in Maxima by Michel Talon, a tutorial introduction to the Maxima pattern

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matching functions;  
Publications. Books and articles which mention Maxima or Macsyma.

## **Maxima Documentation**

2.1. Starten von Maxima  
Maxima ist ein in Lisp geschriebenes freies Computer-Algebra System ( [homepage](#) ). Es ist auf verschiedenen Betriebssystemen lauffähig. Es gibt mehrere Möglichkeiten

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das Programm zu verwenden: • auf der Konsole (hierzu maxima, bzw. maxima.bat starten) • eine rudimentäre grafische Oberfläche bietet xmaxima ...

## **Einführung in Maxima**

Maxima accepts real and complex numbers. Real numbers in Maxima can be integers, rationals, such as  $3/5$ , or floating-



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point numbers, for instance, 2.56 and 25.6e-1, which is a short notation for  $25.6 \times 10^{-1}$ .

Irrational numbers, such as  $\text{sqrt}(2)$  (square root of 2) or  $\log(2)$  (natural logarithm of 2) are left in that form, without being approximated by floating-point numbers, and later calculations, such as  $\text{sqrt}(2)^2$  or  $\exp(\log(2))$  will lead to the exact result 2.

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## **Dynamics and Dynamical Systems - Maxima Tutorial**

Maxima CAS 1: Basic use of wxMaxima and some built-in functions along the way ...

wxMaxima Tutorial #2 by CyterProductions.

15:01. wxMaxima Tutorial #3 by CyterProductions.

## **Maxima Training Course - YouTube**

Maxima Tutorial:

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Phasors and AC Circuits. Posted: (9 days ago) There are various tutorials out there on how to use Maxima; this one is designed to focus on its use for AC circuit analysis; i.e. the use of complex numbers for AC analysis with capacitors and inductors. Sample AC Circuit A basic example of the use of phasors is the investigation of simple series and

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parallel LC circuits.

## **Great Listed Sites Have Wxmaxima Tutorials And Examples**

10 minute (wx)Maxima tutorial : a quick introduction to wxMaxima and Maxima (by Žiga Lenarčič). 10 minute (Russian) translation by Mikhantiev Eugene. 10 minute (Korean) translation by Sajang Yang. 10 minute

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(Spanish) translation  
by Nicolás Guarín.

## **wxMaxima - documentation**

In this tutorial, we are going to discuss some of the most elementary commands used in Maxima in

Trigonometry and Calculus. Note that in maxima, most constants are written with the percent sign before it. For instance, the most common

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constants are  $\pi$ ,  $e$  and  $i$  are written as %pi, %e and %i.

## **maxima tutorial - Math and Multimedia**

Maxima, a computer algebra system

"Maxima is a system for the manipulation of symbolic and numerical expressions, including differentiation, integration, Taylor series, Laplace

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transforms, ordinary differential equations, systems of linear equations, polynomials, and sets, lists, vectors, matrices, and tensors.

## **Maxima - Community Help Wiki**

Maxima is a command-line program that can use a network connection in order to communicate with a frontend. In `data/wxmaxhtml.lisp`

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wxMaxima teaches maxima to talk in a XML dialect: Maxima's normal output format is human-readable. But it can be tricked into containing strings that look like input or output labels and it doesn't guarantee that there is a way to transform output from maxima into a valid input again that has exactly the same meaning.



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## **wxMaxima:**

### **wxMaxima**

Maxima can preprocess, you can use the plot command. All the remaining types of plots are preprocessed by the third-party draw package. draw's preprocessing involves creating a scene out of graphic objects. Examples of graphic objects include parametric plots, implicit plots, and

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explicit plots. Graphic objects are combined with

## **The Maxima package draw in the wxMaxima GUI Version 0**

Numbers are thus just a special case. Hence Maxima can solve algebraic equations symbolically in the same way as we do it by hand. (%i1)solve(a\*x^2+b\*x+c=0,x);

(%o1) [x =  $\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ ]

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$2a, x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$  ]

Of course the coefficients and variables of this quadratic equation can be more complex expressions.

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