

# Axiom The Scientific Computation System

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### **Axiom The Scientific Computation System**

Axiom is a free, general-purpose computer algebra system. It consists of an interpreter environment, a compiler and a library, which defines a strongly typed, mathematically (mostly) correct type hierarchy.

### **Axiom (computer algebra system) - Wikipedia**

AXIOM is a symbolic manipulation system that evolved from the SCRATCHPAD symbolic manipulation system created at IBM's T. J. Watson Research Center in New York. AXIOM joins MACSYMA, Reduce, Maple, a more...

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## **AXIOM: the scientific computation system**

AXIOM: The Scientific Computation System is a companion to the AXIOM system. The text is written in a straightforward style and begins with a spirited foreword by David and Gregory Chudnovsky. The text is written in a straightforward style and begins with a spirited foreword by David and Gregory Chudnovsky.

## **axiomTM: The Scientific Computation System: Richard D ...**

OpenAxiom is an open source Computer Algebra System. It offers an interactive environment, an expressive programming language, a compiler, a large set of mathematical libraries of interest to researchers and practitioners of computational sciences.

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Axiom is a free general purpose computer algebra system. It consists of an interpreter environment, a compiler and a library, which defines a strongly typed, mathematically correct type hierarchy. The primary philosophy is that Axiom needs to develop several fundamental features in order to be useful to the next generation of computational mathematicians.

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documentation; dhmatrix.spad.pdf; Release Notes Release Notes; Blogs Alasdair's Musings; The Axiom system is gradually being documented in a set of literate volumes. These change with every update to the system since they contain the actual system source code. The volumes listed here are updated every other month when the system is distributed. The current volume set is:  
Combined Table of Contents

## **DOCUMENTATION: - Axiom Computer Algebra System**

OpenAxiom Documentation. OpenAxiom is a descendent of the AXIOM computer algebra system as described by Richard Jenks and Robert Sutor in AXIOM: The Scientific Computation System. That book is the base reference document for OpenAxiom.

## **OpenAxiom: The Open Scientific Computation Platform**

What is Axiom? Axiom is a general purpose Computer Algebra system. It is useful for research and development of mathematical algorithms. It defines a strongly typed, mathematically correct type hierarchy. It has a programming language and a built-in compiler. Axiom has been in development since 1971. At that time, it was called Scratchpad.

## **Axiom Computer Algebra System**

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A # (Axiom) A# (pronounced: A sharp) is an object-oriented functional programming language distributed as a separable component of Version 2 of the Axiom computer algebra system. A# types and functions are first-class values and can be used freely together with an extensive library of data structures and other mathematical abstractions.

## **A# (Axiom) - Wikipedia**

Scientific software systems : based on the proceedings of the International Symposium on Scientific Software and Systems, held at Royal Military College of Science, Shrivenham, July 1988 / edited by J.C. Mason and M.G. Cox.

## **Axiom : the scientific computation system**

This book is a technical introduction to the structure of AXIOM that interacts with the system's tutorial that details algorithms newly developed by the symbolic computation community and presents Read more...

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Axiom is being completely reimplemented as a literate program. The reason is that software outlives hardware, and often its own authors. The author of Scratchpad died about 5 years ago. So they feel the only way that this system can survive and be used by future generations is to be written as a literate program...

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