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# Axiom

Axiom is a general purpose Computer Algebra system. It is useful for doing mathematics by computer and for research and development of [mathematical algorithms](#). The [Axiom Language](#) provides a very high-level way to express abstract mathematical concepts that are collected in the [Axiom Library](#) which defines over 1,000 strongly-typed mathematical domains and categories. The [Rosetta Stone](#) document demonstrates how things are done in some [other Computer Algebra systems](#) compared to Axiom. Currently you can use both [Axiom](#) and [Reduce](#) on this website and outputs from both systems can appear together on the same web page.



Try Axiom and Reduce online in the [SandBox](#)

The [Axiom Foundation](#) is our means to promote the development and maintenance of the open source version of Axiom through the dispersement of [donations](#) and royalties from [Axiom Gear](#) to support Axiom-related [projects](#) and through the [Award Of Bounties](#).

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