

What's New in

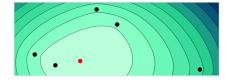
WOLFRAM LANGUAGE 12

With its unique computational intelligence approach, the Wolfram Language follows a bold vision of integrating and automating as much computation and knowledge as possible directly into the language. Version 12 brings a host of major new areas into the domain of the language—building on Wolfram's steady stream of algorithm, design and engineering breakthroughs.



Fully deployable on desktop, cloud, mobile and embedded systems, Version 12 lets anyone immediately use the latest multiparadigm data science and machine learning, work with blockchains and seamlessly access the full Wolfram Knowledgebase or custom databases—either directly in interactive notebooks or through deployed APIs and external languages.

Featured Wolfram Language 12 Areas



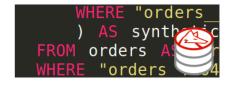
DATA SCIENCE & COMPUTATION

Uncertainty, Units & Dates
Probability & Statistics
Graphs & Networks
Data Import & Export



CORE LANGUAGE & NOTEBOOK INTERFACE

Core Language
Code Compilation
Cryptography
Notebook Interface



EXTERNAL & DATABASE OPERATIONS

Relational Database Integration RDF, SPARQL & Graph Databases External Languages & Systems Mail & Messaging Networking & System Operations

















WOLFRAM KNOWLEDGEBASE

Knowledgebase Query Language Cultural & Historical Entities Physics & Chemistry Entities Geographic Entities
Biological & Medical Entities
Astronomy & Space Science Entities

Financial & Socioeconomic Entities
Food & Nutrition Entities
Mathematical Entities



IMAGE & AUDIO

Image Computation
Audio Computation
Image Computation for Microscopy
Machine Learning for Images
Machine Learning for Audio



MACHINE LEARNING

Machine Learning Superfunctions
Neural Network Framework
Machine Learning for Images
Machine Learning for Audio
Natural Language Processing



REAL-WORLD SYSTEMS

System Modeling
Molecular Structure
Blockchains
Microcontroller Deployment
Unity Game Engine



SYMBOLIC & NUMERIC COMPUTATION

Asymptotics
Calculus
Algebra
Convex Optimization
Nonlinear Finite Elements



VISUALIZATION & GRAPHICS

Core Visualization
Labeled Visualization
Complex Visualization
Geographic Visualization



GEOMETRY & GEOGRAPHY

Geometric Computation Polygons & Polyhedra Nonlinear Finite Elements High-School Geometry New in Geo Computation



MATHEMATICA

Representing another major milestone in a unique journey spanning 30+ years, Mathematica 12 significantly extends the reach of Mathematica and introduces many innovations that give all Mathematica users new levels of power and effectiveness.

Explore more of what's new in Mathematica: www.wolfram.com/mathematica/new-in-12

Try, buy or upgrade to Mathematica 12: www.wolfram.com/mathematica/pricing



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