What's New in
Wolfram *Mathematica* 10
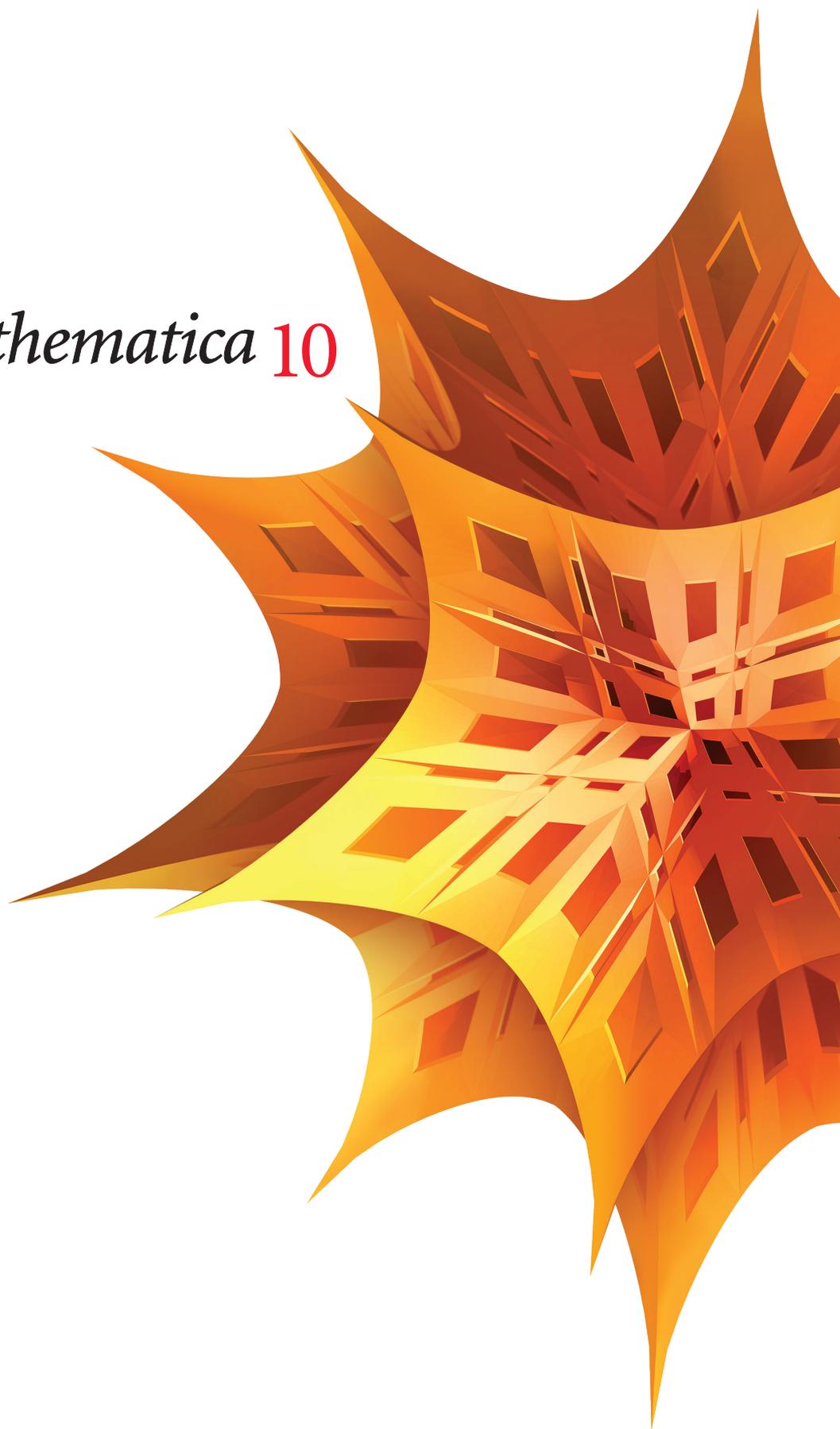
What's New in *Mathematica* 10

700+ new functions—and that's just the beginning

Mathematica celebrated its 25th anniversary in 2013, and is stronger than ever. Leveraging its core principles of automation and unification, it's advancing at an ever-increasing rate.

Mathematica 10 introduces a host of new areas— such as machine learning, computational geometry, geographic computation, and device connectivity— as well as deepening capabilities and coverage across the algorithmic world.

Mathematica 10 is the first version of *Mathematica* based on the complete Wolfram Language.

Introducing *Mathematica* Online

Now use *Mathematica* in the Wolfram Cloud directly from your web browser, with no installation required. Or get the best of both desktop and cloud with *Mathematica* 10 + *Mathematica* Online.


Featured *Mathematica* 10 Areas

Mathematical Structures

Larger-Scale & Extended Algebra

Formal Math Operators

Dimensional Variables

Enhanced Graph Computation
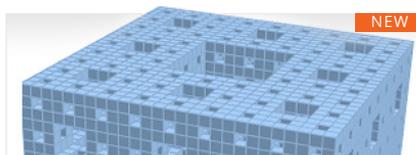
Geometric Computation

Symbolic Geometry

Named & Formula Regions

Mesh-Based Regions
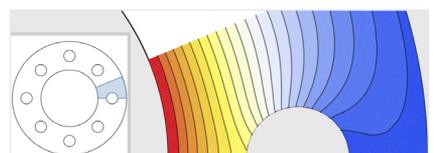
Differential Equation Solving

Partial Differential Equations (PDEs) & Finite Elements

Symbolic Delay Differential Equations (DDEs)

Hybrid Differential Equations
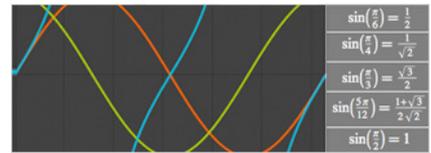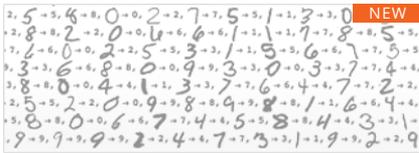
Machine Learning

Highly Automated Machine Learning

Built-in Classifier Collection

Automated Time Series Analysis

Structured & Semantic Data

Semantic Data Import

Domain-Specific Language Interpretation

Dataset & Query Framework

Core Language Enhancements

Key-Value Associative Arrays

Enhanced Functional Programming

Symbolic Program Manipulation
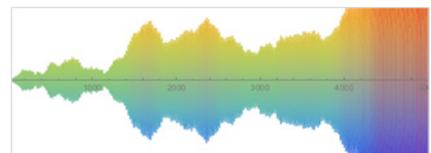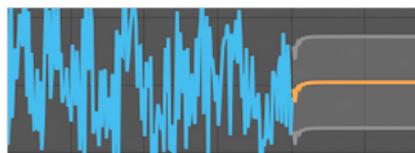
Geographic Computation

Geographic Visualization

Geo-Related Properties

Entity-Based Geocomputation

Time-Related Computation

Symbolic Dates & Times

Time Series Processing

Random Process Analysis

Hidden Markov Processes & More

Random Time Series
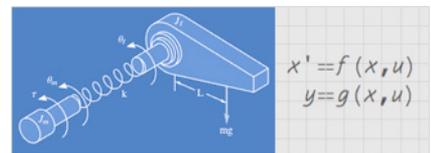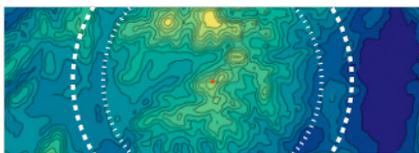
Visualization & Graphics

Theme-Based Styling

New Visualization Categories

Geographic Visualization

Image Processing

More 2D Image Processing

More 3D Image Processing

Extended Color Support

Engineering Computation

PDEs & Finite Elements

Nonlinear Control Systems

Enhanced Signal Processing

Software Engineering

String, File, HTML Templating

Automated Report Generation

Integrated Unit Testing

External Connectivity

Connected Device Framework

Curated API Framework

URL Manipulation

(continued on back)

Expanded Wolfram Knowledgebase

Mathematica has access to the full, newly expanded Wolfram Knowledgebase via the Wolfram Language. All *Mathematica* users get free introductory use of the Wolfram Knowledgebase.
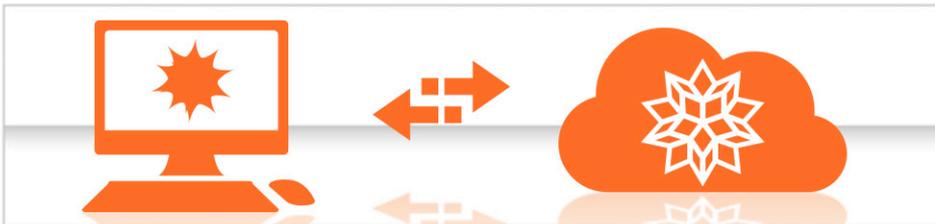
Integration with the Wolfram Cloud

Mathematica 10 connects *Mathematica* to the new Wolfram Cloud ecosystem. *Mathematica* customers get free introductory use of the Wolfram Cloud.

Visit our website to get a free trial and explore the new features in *Mathematica* 10:

www.wolfram.com/mathematica

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QUESTIONS?

Contact us and let us work with you to find the right solution for your computational needs.

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