A little bit of Maple history

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Maple 1.0 (January 1982)

No release notes found.

Maple 1.1 (January 1982)

No release notes found.

Maple 2.0 (May 1982)

No release notes found.

Maple 2.1 (June 1982)

No release notes found.

Maple 2.15 (August 1982)

No release notes found.

Maple 2.2 (December 1982)

No release notes found.

Maple 3.0 (May 1983)

No release notes found.

Maple 3.1 (October 1983)

No release notes found.

Maple 3.2 (April 1984)

No release notes found.

Maple 3.3 (July 31, 1984)

No release notes found.

The first commercially available version of Maple, version 3.3, is offered through WATCOM.

Maple 4.0 (April 15, 1986)

notes
"Maple 4.0 introduces a long list of useful functions it's difficult to imagine doing without, including "solve", "simplify", "dsolve", and "fsolve"."

Maple 4.1 (May 1987)

links

`https://maplesoft.com/support/help/maple/view.aspx?path=updates/v41` New features that have been added to Maple for version 4.1

Maple 4.2 (December 7, 1987)

notes
"Maple 4.2 goes cutting-edge on the Macintosh with a windows-based workspace you can scroll through to see past results, without losing them off the top of your screen. Other platforms have to wait a bit longer for this technology."

Maple 4.3 (March 1989)

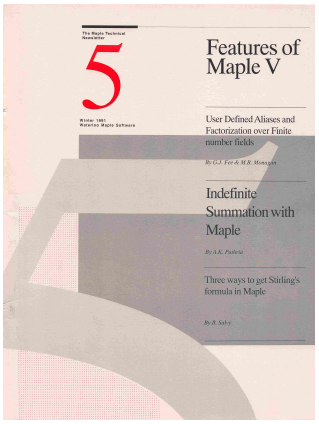
No release notes found.

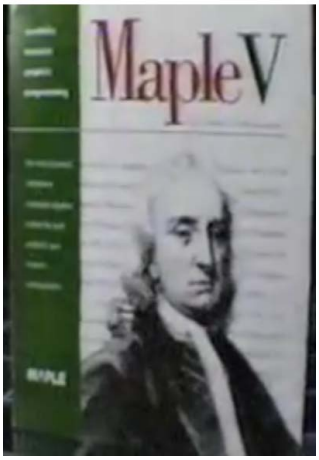
Maple V (February 8, 1990)

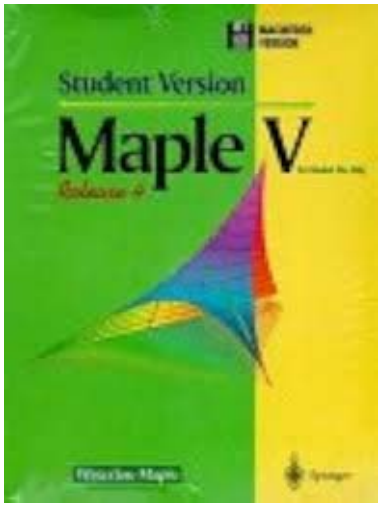
links

`https://www.youtube.com/watch?v=ZMzq6E_Wiis` youtube video Maple V: The Future of Mathematics by John May.

notes
2000 builtin functions.







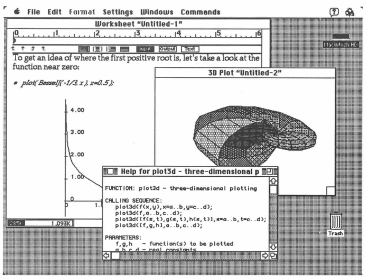


Figure 1. A sample Maple V for the Macintosh session

Maple V Release 1.0 (August 1990)

https://en.freedownloadmanager.org/Windows-PC/Maple-V-Release.html

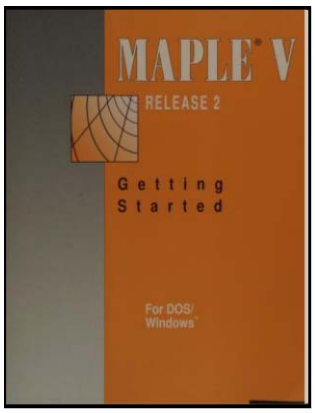
Maple V Release 2.0 (November 17, 1992)

notes

"Maple V Release 2 provided the first "worksheet" interface for all platforms, which lets you include text, math, and plots together in the document. Output of commands was displayed in text-book standard mathematical notation for the first time."

"Starting in Maple V Release 2, the assume facility allowed you to give Maple extra information about your problem, such as "x is positive" or "y is not zero". That way, Maple could perform simplifications that do not hold in the general case"

"Introduced worksheets, real mathematical formula output, and a help browser."



Maple V Release 3.0 (March 3 1994)

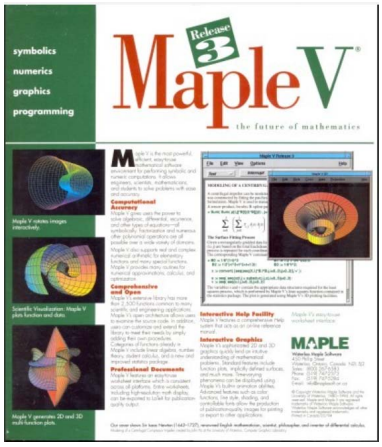
links

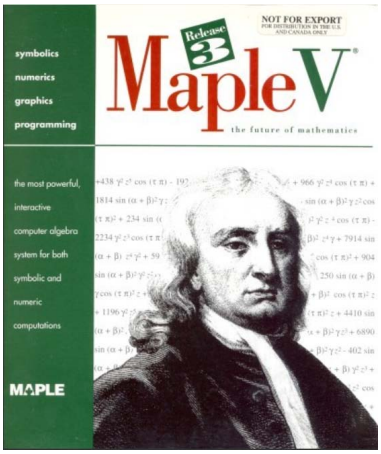
https://www.maplesoft.com/books/details.aspx?id=297 Maple V Student Version Release 3, Dos/Windows

notes

"Maple introduces new tools, including "march", to support the creation and distribution of user-created packages and libraries."

"It featured extremely improved symbolic and numeric algorithms, a simpler to use interface, export of worksheets to LaTeX, a new online help system and an extended programming language"





Maple V Release 4.0 (January 16 1996)

links

`https://www.maplesoft.com/support/help/Maple/view.aspx?path=updates/v54` New Features That Have Been Added to Maple V for Release 4

notes

“People writing code in the Maple language get a debugger as part of Maple V Release 4.”

“Significant for performance, new functions, and improved user experience, especially for Windows 3.1 users”

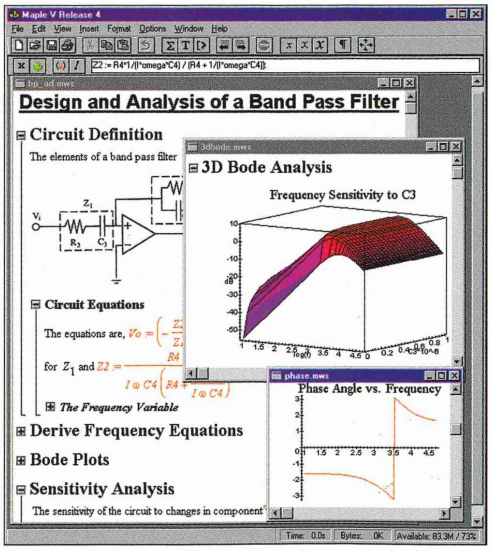


Figure 2: Sections and Subsections

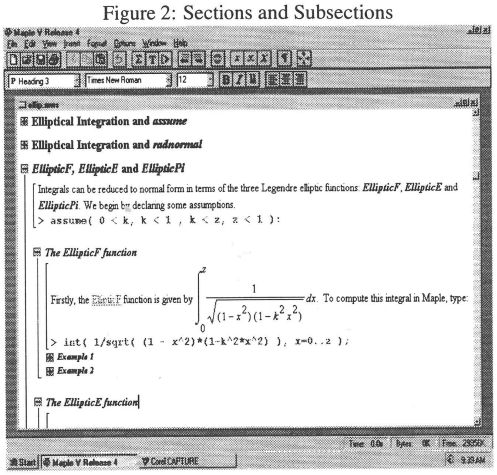


Figure 4: Creating a Hyperlink

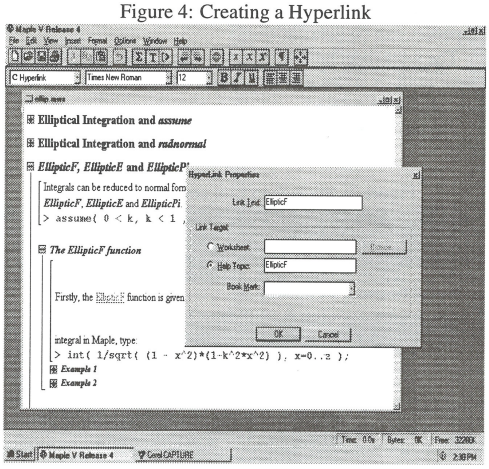


Figure 6: A Help Page

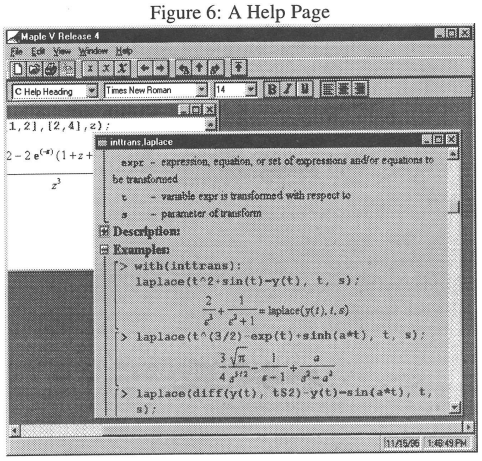


Figure 3: Style Selection and Modification

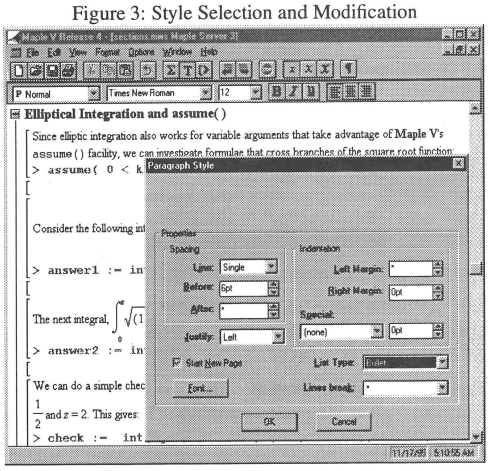
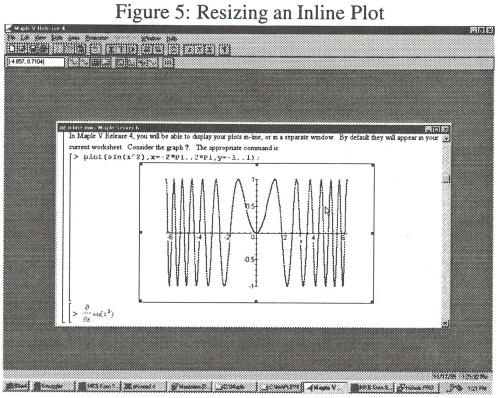


Figure 5: Resizing an Inline Plot



Maple V Release 5.0 (November 01, 1997)

links

`https://www.maplesoft.com/support/help/maple/view.aspx?path=updates/R5/highlights`

`https://maplesoft.com/support/help/maple/view.aspx?path=updates/v55`

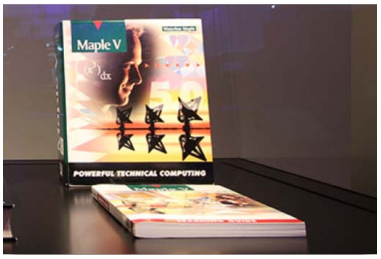
`https://collection.sciencemuseumgroup.org.uk/objects/co8465614/maple-v-5-0-software-manual` Maple V 5.0 Software Manual display at Science museum in London.

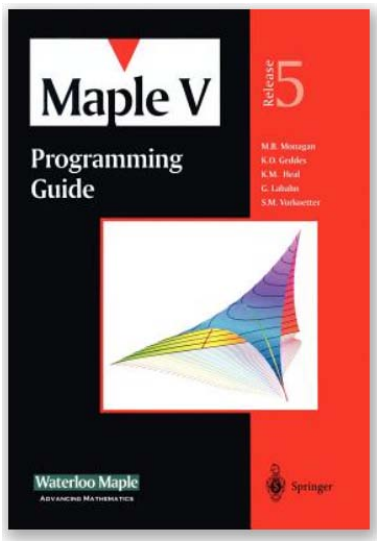
notes

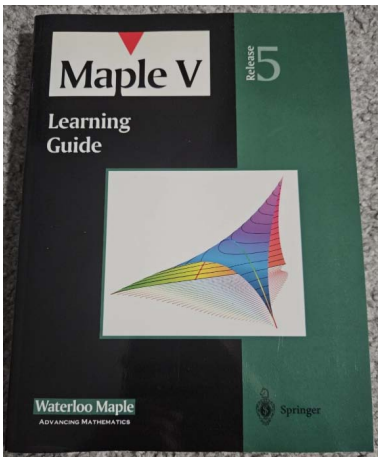
"Maple V Release 5 includes the first Clickable Math tools, with the introduction of context-sensitive menus for math operations, expression palettes, dragging expressions into plots, and more."

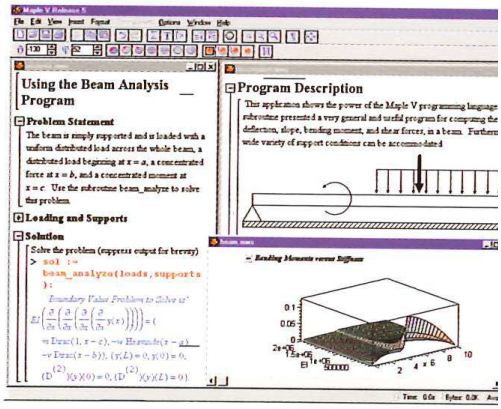
"Brought major GUI enhancements, expanded libraries, and better numeric processing."

Maple V
POWERFUL TECHNICAL COMPUTING


Maple V
POWERFUL TECHNICAL COMPUTING


Maple V
Release 5
Programming Guide
M.B. Monagan
K.O. Geddes
K.M. Heal
G. Labahn
S.M. Vorkoetter
Waterloo Maple
Springer


Maple V
Release 5
Learning Guide
Waterloo Maple
Springer

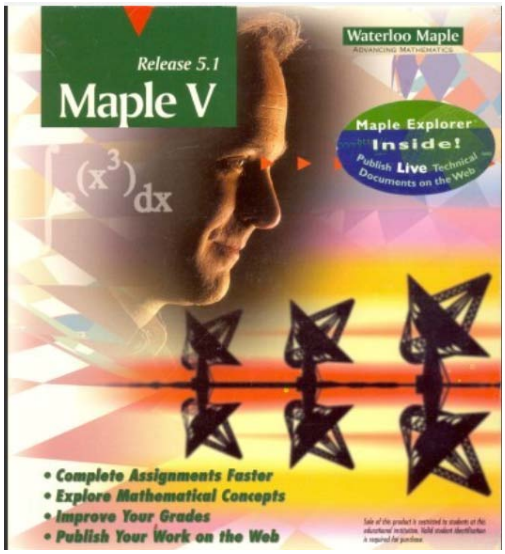

Using the Beam Analysis Program
Problem Statement
Loading and Supports
Solution
Program Description

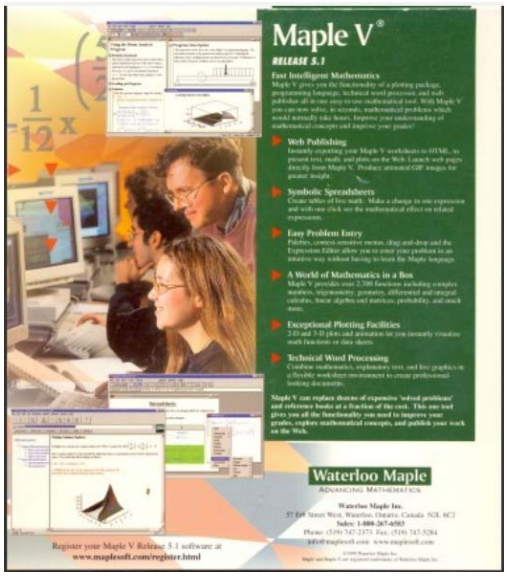
ANNOUNCING
The New Maple V
RELEASE 5.0

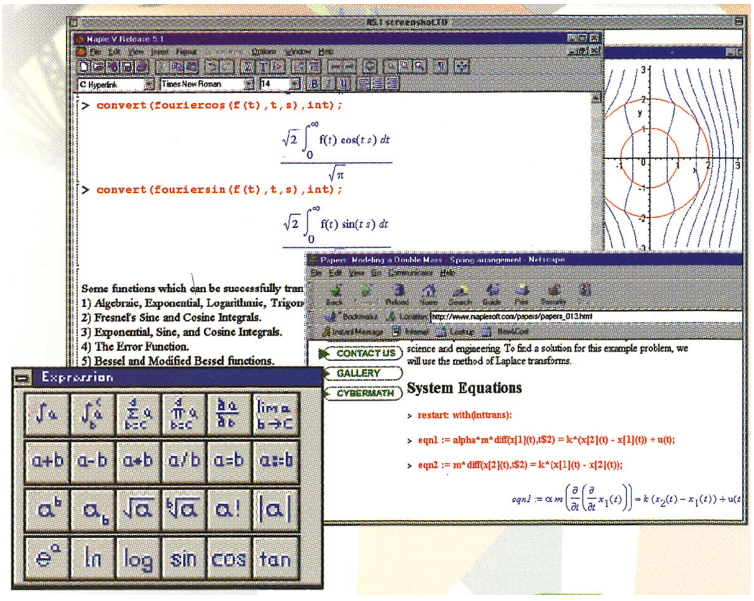
Maple V Release 5.1 (October 27, 1998)

`https://maplesoft.com/support/help/maple/view.aspx?path=updates%2fR5%2fR51`
Maple V Release 5.1 contains some special features. These are summarized below.

notes
"Added features like exporting to LaTeX and better web integration."







Version 6.0 (February 14, 2000)

https://www.maplesoft.com/products/maple/history/pastversions_maple6.aspx

notes
"Maple 6 marks the introduction of new numeric solvers from the Numeric Algorithms Group (NAG) and the ability to create hybrid algorithms that take advantage of symbolic preprocessing to improve results of numeric computations."

Version 6.02 (February 23, 2000)

links

https://www.maplesoft.com/products/maple/history/pastversions_maple6.aspx

https://www.maplesoft.com/support/downloads/install.aspx

notes
"Release 6.02 addresses platform-specific issues for the Windows and Macintosh operating systems. The most recent version of Maple 6 for the UNIX and Linux operating systems remains Release 6.01"

Version 7.0 (July 1, 2001)

https://www.maplesoft.com/support/help/Maple/view.aspx?path=updates/v7

notes
"Maple 7 includes many new capabilities and improvements to existing facilities. These are summarized under the following topics."

Version 8.0 (May 27, 2002)

links

https://www.maplesoft.com/support/help/Maple/view.aspx?path=updates/v8x

https://www.maplesoft.com/support/help/Maple/view.aspx?path=updates/Maple8/programming

https://www.maplesoft.com/products/maple/history/pastversions_maple8.aspx

https://www.maplesoft.com/support/help/Maple/view.aspx?path=updates/Maple8/de Updates to Differential Equation Solvers in Maple 8

notes

"Differential Equations - In Maple 8, the pdsolve command computes numerical solutions for PDEs subject to boundary conditions. The dsolve command computes exact solutions to nonlinear ODEs of order two and higher using symmetries and also an integrating factor approach."

"In Maple 8, there are many new capabilities and improvements to existing facilities. Key enhancements include Maplets, Student[Calculus1], ScientificConstants, and Differential Equations"

"While Maple has always been very useful to students, Maple 8 includes the first of the modern student packages, providing commands and tutors for exploring concepts in Calculus I."

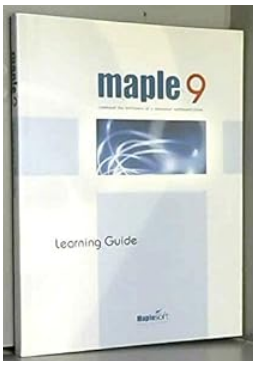
Version 9.0 (May 15, 2003)

links

`https://www.maplesoft.com/support/help/maple/view.aspx?path=updates/Maple9/index` Index of New Maple 9 Features

`https://www.maplesoft.com/support/help/maple/view.aspx?path=updates%2fv9` What's New in Maple 9?

`https://www.maplesoft.com/support/help/Maple/view.aspx?path=updates/Maple9/de` Updates to Differential Equation (DE) Solvers in Maple 9



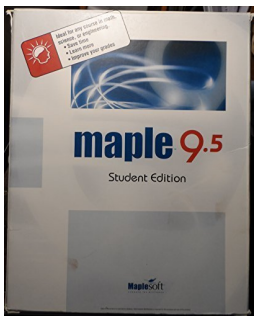
Version 9.5 (sometime in 2004)

No release notes found.

notes “Key new and improved features in Maple 9.5:
MapleNet integration
Optimization and logic packages
Math dictionary, enhanced plot builder
Dockable palettes
Student package for Multivariate Calculus ”

“Maple 9.5, released around 2004, brought significant enhancements over previous versions, focusing on interactive tools, new packages (Optimization, Logic, Student Calculus), MapleNet integration, enhanced plotting, dockable palettes, and improved symbolic capabilities, especially in differential equations (PDE/ODE solvers, Traveling Wave Solutions), making it a more powerful, user-friendly system for complex math on computers.

Key updates included better handling of complex functions (like Re, Im, conjugate) and performance boosts for certain calculations. ”



Version 10.0 (May 16, 2005)

links

`https://www.maplesoft.com/documentation_center/installation_guide.aspx` Maple 10 Installation and Licensing Guide.

`https://www.maplesoft.com/books/details.aspx?id=181` Maple 10 Introductory Programming Guide.

`https://www.maplesoft.com/books/details.aspx?id=180` Maple 10 User Manual.

`https://www.maplesoft.com/support/help/Maple/view.aspx?path=updates/Maple10/de` Updates to Differential Equation (DE) Solvers in Maple 10.

`https://www.maplesoft.com/support/help/maple/view.aspx?path=updates/Maple10/gui` Maple 10 Graphical User Interface (GUI) Updates.

notes

"A revolutionary step in Maple's development, Maple 10 offered a powerful new interface for Clickable Math interactions, richer technical documents, application development, and more."

Version 11.0 (February 21, 2007)

links

`https://maplesoft.com/support/help/Maple/view.aspx?path=updates/v11` What's New in Maple 11?

`https://maplesoft.com/support/help/Maple/view.aspx?path=updates%2fMaple11%2findex` Maple 11 New Features.

`https://www.maplesoft.com/support/help/Maple/view.aspx?path=updates/Maple11/de` Updates to Differential Equation (DE) Solvers in Maple 11.

notes
"Key new and improved features in Maple 11:
- Self-documenting context menus
- 2-D plotting enhancements
- New Graph Theory and Differential Geometry packages
- Slide show mode
- Enhanced connectivity features "

Version 12.0 (May 06, 2008)

links

`https://maplesoft.com/support/help/Maple/view.aspx?path=updates/v12` What's New in Maple 12?

`https://www.maplesoft.com/support/help/maple/view.aspx?path=updates/Maple12/index` Index of New Maple 12 Features.

`https://maplesoft.com/support/help/Maple/view.aspx?path=updates%2fMaple12%2findex` another Maple 12 Index of New Features page.

`https://www.maplesoft.com/support/help/Maple/view.aspx?path=updates/Maple12/de` Updates to Differential Equation (DE) Solvers in Maple 12.

`https://www.scientific-computing.com/press-releases/maple-12` scientific-computing article on Maple 12

PDF file maple 12 reference card.

notes
"Latest edition of Maplesofts flagship product breaks new ground in engineering software with an extensive new feature set"

"Key new and improved features in Maple 12:
- Embedded interactive dials, gauges and buttons
- Exploration Assistant
- Plotting Enhancements
- Code Edit Regions
- Control Systems Design Tools
- Enhanced differential equation solving
- Wavelets
- CAD Connectivity
- MATLAB to Maple Code Translation
- Code Generation "

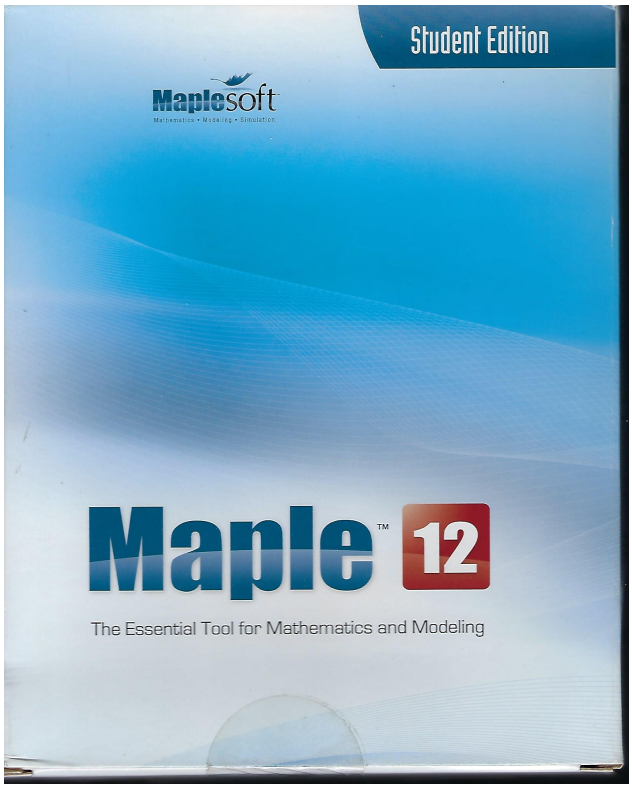
"Maplesoft has released the latest version of Maple, the companys tool to solve complex mathematical problems and create rich technical documents.

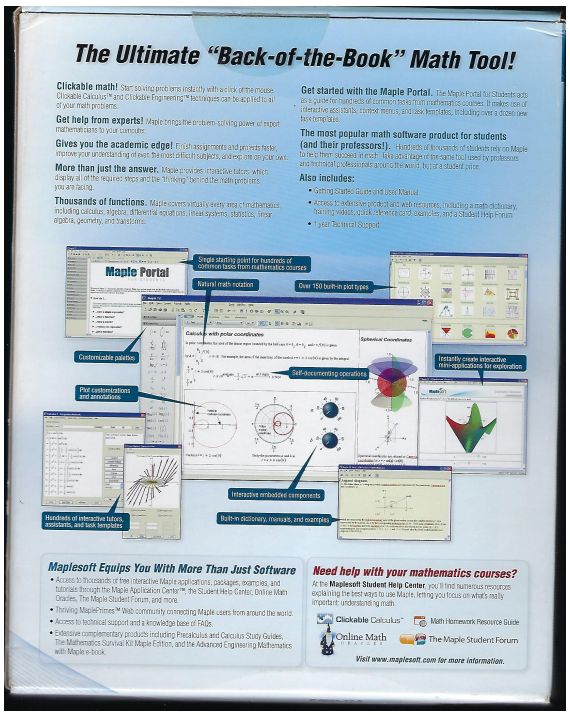
Maple 12 introduces a range of new tools built on Maples fundamental technology platform of smart documents, powerful mathematics, and seamless connectivity to the engineering design toolchain.

One of the most significant features of this release is the direct connectivity between Maple 12 and popular CAD systems such as SolidWorks and Autodesk Inventor. CAD users will now be able to deploy powerful mathematical capabilities to dramatically extend the range of analysis on CAD models. Based on major industry trends and extensive consultation with its user base, the product also offers new ways to develop sophisticated mathematical models faster and more accurately.

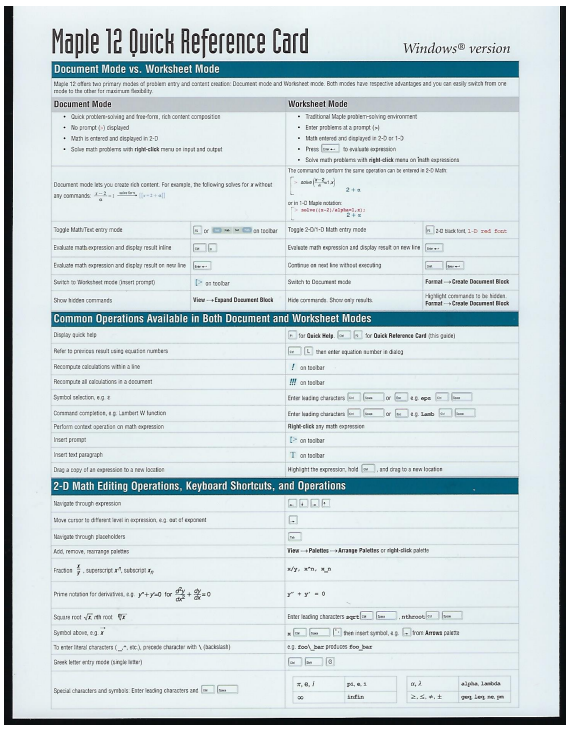
A new collection of Dynamic Systems modelling tools essential in dynamic modelling, control design, and signal processing is another important addition to the new release. These tools will add convenient frequency domain analysis, state space analysis, and more to Maple's mathematical tool set. "

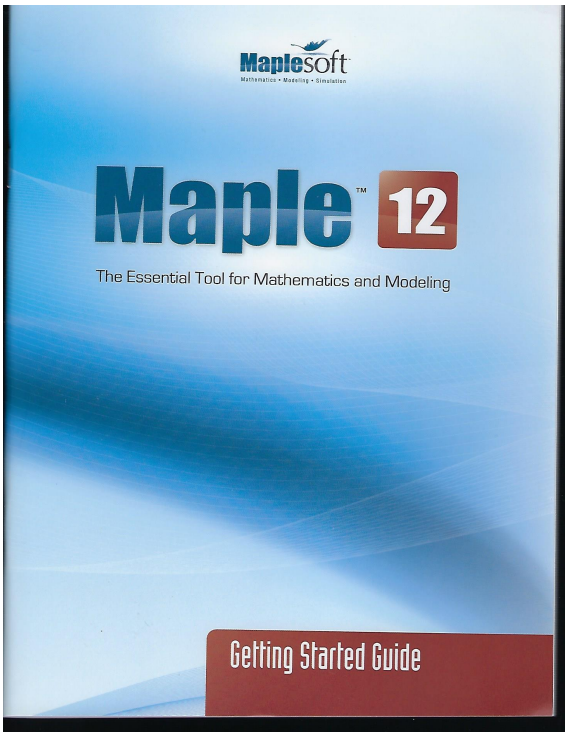
Maple 12


Student Edition
Maplesoft
Mathematics • Modeling • Simulation
Maple™ 12
The Essential Tool for Mathematics and Modeling


The Ultimate "Back-of-the-Book" Math Tool!
Clickable math!
Get help from experts!
Gives you the academic edge!
More than just the answer.
Thousands of functions.
Get started with the Maple Portal.
The most popular math software product for students (and their professors!).
Also includes:
Maple Portal
Maplesoft Equips You With More Than Just Software
Need help with your mathematics courses?
Visit www.maplesoft.com for more information.

Maple 12 Quick Reference Card
Windows® version
Expressions vs. Functions
Important Maple Syntax
Mathematical Operations
Input and Output
Plotting and Animation
Units and Tolerances
Select Interactive Tools and Utilities
Maplesoft





Version 13.0 (April 28, 2009)

links

`http://www.maplesoft.com/view.aspx?SID=32551` Maple 13 press release.

`https://maplesoft.com/support/help/Maple/view.aspx?path=updates/v13` What's New in Maple 13?

`https://www.maplesoft.com/support/help/maple/view.aspx?path=updates/Maple13/index` Index of New Maple 13 Features.

`https://www.maplesoft.com/support/help/Maple/view.aspx?path=updates/Maple13/de` Updates to Differential Equation (DE) Solvers in Maple 13.

`https://www.maplesoft.com/products/maple/history/pastversions_maple13.aspx` Maple 13 pages at Maplesoft.

`https://www.mapleprimes.com/posts/37445-Maple-13-And-MapleSim-2-Now-Available` Maple primes post announcing Maple 13.

`https://www.mapleprimes.com/maplesoftblog/32606-Maplesoft-Announces-New-Versions-Of` Another Maple primes post announcing Maple 13.

notes

"Waterloo, Canada; 28 April 2009: Today, Maplesoft announced new releases of its core products MapleSim, the high-performance, multi-domain modeling and simulation tool, and Maple, the technical computing software for mathematicians, engineers, and scientists.

These products are based on Maplesoft's core technologies, including the world's most advanced symbolic computation engine and revolutionary physical modeling techniques. Together, they provide a platform where students can work confidently with everything from theoretical concepts to the subtleties and art of design. "

"Maple 13 includes completely new 3-D plotting facilities, powerful new learning and problem-solving tools, and additional resources to enable users to find answers to questions quickly. New plotting facilities include extensive annotation tools and fly-through animations, making 3-D plots more meaningful and easier to interpret.

New tools, such as tutors for complex variables and numerical analysis, point-and-click access to control systems design tools, and enhanced step-by-step problem solvers for calculus, help students explore, visualize, and understand mathematical concepts. Maple 13's leading-edge solvers include revolutionary techniques for finding solutions to differential equations that are beyond the scope of standard methods. "

"Maple 13 introduces a new task-based programming model that greatly simplifies the development of multithreaded programs."

"Key new and improved features in Maple 13:
- Maple Portal for Engineers
- Fly-through animations
- Plot annotation support
- Context-sensitive menus for control system development
- CAD connectivity support
- Step-by-step tutorials
- Complex Variables Tutors
- Equation Manipulator assistant "

"Math
– Differential Equations Revolutionary techniques for finding solutions to differential equations that are beyond the scope of standard methods. It greatly extended the event-handling abilities for numeric solutions and enhanced the abilities and performance of the high-index DAE solvers.

- Polynomial system solving Extensions to the polynomial systems and root-finding algorithms in Maple 13 provided another approach to determining the parameter conditions under which specified types of solutions exist. This ability is particularly useful in designing control systems.

– Graph Theory The GraphTheory package contains new tools for analyzing and visualizing graphs and their properties, as well as new algorithms, predefined graphs, and more. Vector Calculus Task Templates Vector Calculus Task Template enhancements provided new templates and improved notation support to make these notationally challenging problems easier to set up and the results easier to interpret. ”

“Maple 13 includes completely new 3D plot facilities, which are faster and use less memory. Another nice benefit is you can now annotate 3-D plots just like you do 2-D plots, including proper math notation in titles and labels, tickmarks in multiples of pi, and arrows.

You can also create fly-through animations, which zoom a virtual camera around your 3-D plots. Weve put a few examples on our website

Writing multithreaded applications is now a whole lot easier using a new task-based programming model. You no longer have to worry about synchronization tools Maple handles that part. For example, heres an interactive Mandelbrot application that uses the task-based model to automatically distributes the calculations to all available processors.

And the in small-but-useful category, Maple 13 now includes an Export to PDF option. ”

Maple™ 13

Released: 2009
Available resources:

- Downloadable product manuals
- Technical support FAQs
- Maple 13 worksheets in the Application Center
- Product press release

Version 14.0 (May 18, 2010)

links

`https://maplesoft.com/support/help/Maple/view.aspx?path=updates/v14` What’s New in Maple 14?

`https://www.maplesoft.com/support/help/maple/view.aspx?path=updates/Maple14/index` Index of New Maple 14 Features.

`https://www.maplesoft.com/support/help/Maple/view.aspx?path=updates/Maple14/de` Updates to Differential Equation (DE) Solvers in Maple 14.

https://www.maplesoft.com/products/maple/history/pastversions_maple14.aspx Maple 14 pages at Maplesoft.

https://www.mapleprimes.com/maplesoftblog/94987-New-Parallel-Features-In-Maple-14 Maple primes post on New Parallel Features in Maple 14.

https://www.designnews.com/motion-control/new-releases-of-maple-and-maplesim-now-available Post at design news about release of Maple 14.

notes

"Key new and improved features in Maple 14:
- Linearization tools
- Solvers for algebraic Riccati equations (CARE/DARE)
- Control design tools
- Connectivity with MATLAB
- MapleCloud
- New task templates
- Improved search capabilities
- Performance enhancements
Plotting enhancements "

"- Linearization Tools Built-in tools for linearizing nonlinear differential algebraic equations support work in control design, calibration, and sensitivity analysis.

- Solvers for Algebraic Riccati Equations (CARE/DARE) New solvers for continuous and discrete algebraic Riccati equations (CARE and DARE) let you apply more advanced techniques to control design problems. These solvers make it easy to rapidly design and implement sophisticated controllers, such as those used in optimal and robust control theory for linear and nonlinear plant models.

- Control Design The expanded suite of tools for control design provides greater insight into the dynamic behavior of your system. "

Maple 14

Released: 2010
Available resources:

- Downloadable product manuals
- Technical support FAQs
- Maple 14 worksheets in the Application Center
- Product press release

Version 15.0 (April 13, 2011)

links

`https://maplesoft.com/support/help/Maple/view.aspx?path=updates/v15` What's New in Maple 15?

`https://www.maplesoft.com/support/help/category.aspx?cid=1459` Page at Maplesoft contains links to Maple 15 help pages.

`https://www.maplesoft.com/support/help/maple/view.aspx?path=updates/Maple15/index` Index of New Maple 15 Features.

`https://www.maplesoft.com/support/help/Maple/view.aspx?path=updates/Maple15/de` Updates to Differential Equation (DE) Solvers in Maple 15.

`https://www.maplesoft.com/products/maple/new_features/maple15/index.aspx` Maple 15 page at Maplesoft.

`https://www.mapleprimes.com/maplesoftblog/103907-Introducing-Maple-15` Mapleprimes post announcing Maple 15.

`https://www.designnews.com/motion-control/maplesoft-launches-comprehensive-maple-15-release` Post at design news about release of Maple 15.

notes

"Maplesoft today announced a substantial new release of its flagship product, Maple, the technical computing software for mathematicians, engineers, and scientists. With over 270 new mathematical functions and hundreds of enhancements to existing algorithms, customers can solve more complex problems faster than ever before"

"I am pleased to announce that Maple 15 will be available on April 13. We are very proud of this new release of Maple, which has been twelve months in the making, and I would like to share some of the exciting new developments with you.

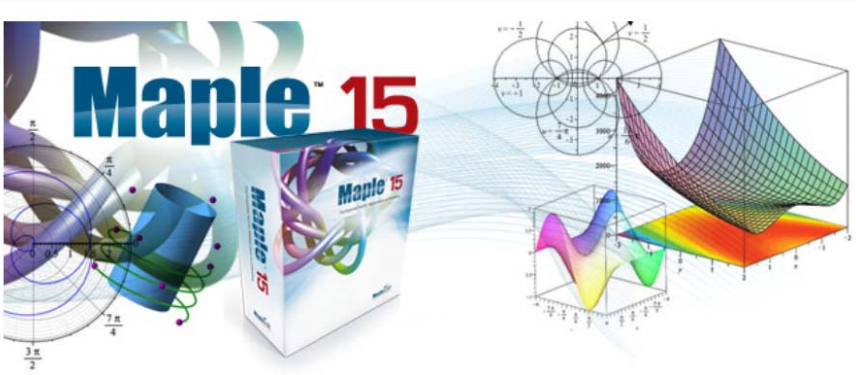
The guiding principle behind Maple is to make sophisticated mathematical algorithms easily accessible. Maple 15 adds over 270 new functions and over a thousand enhancements to existing algorithms. Maple 15 solves large classes of differential equations that nobody else can touch. The efficiency of many core algorithms has seen tremendous improvements, and the breadth and depth of computations in areas like differential geometry is far ahead of the nearest competitor. Maple 15 also allows you to compute previously unavailable parametric solutions to systems of equations and summation problems."

"Key new and improved features in Maple 15:
- Parallel Performance
- User Interface

- Computational Algorithms
- Control Design
- Physics
- Financial Modeling
- Connectivity ”

“Maple 15 offers many ways to take advantage of the full processing power of multicore computers, including automatic parallelism for many key operations.”

“Areas of Major Improvements in Maple 15
- Enhancements to computational algorithms
- Enhancements to connectivity to other tools
- Improvements to the suite of ordinary and partial differential equation solvers
- Updates to the Differential Geometry package
- New Finance package in Maple 15
- Expanded visualization and graphing capabilities
- New and updated features of the Maple graphical user interface
- Additional enhancements in the core areas of mathematics and programming
- Parallel performance in Maple ”



Version 15.01 (June 22, 2011)

links

`https://www.mapleprimes.com/posts/123111-Maple-1501` Mapleprimes post

“Just wanted to let everyone know that there is a Maple 15 update available. Maple 15.01 provides:
- Enhancements to MapleCloud security settings
- Improvements to tools supporting multi-process programming on a local grid
- Extended MATLAB connectivity to include MATLAB R2011a - Compatibility with MapleSim 5 ”

Version 16.0 (March 28, 2012)

links

`https://www.maplesoft.com/support/help/Maple/view.aspx?path=updates/Maple16/index` Index of New Maple 16 Features.

`https://www.maplesoft.com/support/help/Maple/view.aspx?path=updates/Maple16/packages` New and Enhanced Packages in Maple 16.

`https://www.maplesoft.com/products/maple/new_features/maple16/index.aspx` Key New Features in Maple 16.

`https://maplesoft.com/support/help/Maple/view.aspx?path=updates/v16` What's New in Maple 16?

`https://de.maplesoft.com/support/help/maple/view.aspx?path=updates%2FMaple16%2Fobjects` OOP Objects in Maple 16.

`https://www.maplesoft.com/support/install/maple16_install.html` Maple 16 Installation and Licensing Guide.

`https://www.maplesoft.com/demo/streaming/m16WhatsNew.aspx` Video on Maple 16. But does not seem to work.

`https://www.mapleprimes.com/maplesoftblog/132249-Maple-16-Is-Here` Post at Mapleprime announcing Maple 16.

`https://www.maplesoft.com/support/help/Maple/view.aspx?path=updates/Maple16/de` Updates to Differential Equation (DE) Solvers in Maple 16.

`https://www.digitalengineering247.com/article/pick-of-the-week-maplesoft-releases-maple-16` post at digitalengineering site.

notes

"Maplesoft today announced a major new release of its flagship product, Maple, the technical computing software for mathematicians, engineers, and scientists. With Maple 16, Maplesoft introduces new tools and techniques in its Clickable Math collection, setting new standards for ease of use in mathematical software and providing new, innovative ways to explore mathematics."

"Key new and improved features in Maple 16:
- Clickable Math 3.0
- Computational Efficiency
- High-Impact Visualization
- Smart 2-D Plot View

- Physics
- Rubber-Band Zooming”

Version 16.01 (May 23, 2012)

links

`https://www.mapleprimes.com/posts/134471-Maple-1601-Now-Available` Post at Mapleprimes.

“ Just wanted to let everyone know that there is a Maple 16 update available. Maple 16.01 includes improvements to the mathematics, interface, and plotting capabilities of Maple, including:

- Enhancements to the Physics package in the area of general relativity
- Translations of tutors and assistants into French and Brazilian Portuguese
- A correction to the problem in plotting multiple plots at once in non-Cartesian coordinates, as was previously reported on MaplePrimes
- Updates to 2-D math, the variable and task palettes, and the use of tabs in text regions ”

Version 17.0 (March 13, 2013)

links

`https://www.maplesoft.com/support/help/Maple/view.aspx?path=updates/Maple17/index` Index of New Commands and Packages in Maple 17.

`https://www.mapleprimes.com/maplesoftblog/144580-Introducing-Maple-17` Post at Mapleprime announcing Maple 17.

`https://www.maplesoft.com/support/help/Maple/view.aspx?path=updates/v17` New in Maple 17.

https://www.maplesoft.com/products/maple/new_features/maple17/index.aspx Key New Features in Maple 17.

https://www.maplesoft.com/support/install/maple17_install.html Maple 17 Installation and Licensing Guide.

https://www.maplesoft.com/support/help/category.aspx?cid=1461 Maple 17 Category Documents.

https://www.maplesoft.com/products/maple/new_features/maple17/statistics.aspx New Features in Maple 17: Statistics.

https://www.maplesoft.com/products/maple/new_features/maple17/advanced_math.aspx New Features in Maple 17: Advanced Mathematics.

https://people.math.sc.edu/meade/maple/maple-ref17.pdf PDF file by Douglas Meade, Maple 17 A Quick Reference.

https://www.youtube.com/watch?v=ADm1hDJiva8&t=7s Youtube video by Nicholas Bennett using Maple 17 showing the UI.

notes

" Key new and improved features in Maple 17:
- The Mobius Project
- Advanced Code Editor
- Embedded Video
- Performance Improvements
- Signal Processing Tools
- Group Theory Package
- Additional Math Apps
- One-Step App Creation "

" March 13, 2013
Maplesoft today announced a major new release of its flagship product, Maple, the technical computing software for engineers, mathematicians, and scientists. With Maple 17, Maplesoft introduces more computation tools and a large collection of enhancements dedicated to supporting the creation of applications. "

Version 18.0 (March 05, 2014)

links

`https://www.maplesoft.com/support/help/Maple/view.aspx?path=updates/Maple18/index` Index of New Commands and Packages in Maple 18.

`https://www.maplesoft.com/support/help/Maple/view.aspx?path=updates/v18` What's New in Maple 18.

`https://www.maplesoft.com/support/help/Maple/view.aspx?path=updates/Maple18/compatibility` Compatibility Issues in Maple 18.

`https://www.maplesoft.com/products/maple/new_features/maple18/Dynamic_Systems.aspx` Dynamic Systems in Maple 18.

`https://files.wolframcdn.com/pub/www.wolfram.com/mathematica/compare-mathematica/files/ReviewOfMaple18.pdf` PDF file compares Maple 18 features with Mathemnatica.

`https://www.mapleprimes.com/maplesoftblog/200200-Announcing-Maple-18` Post at Mapleprime announcing Maple 18.

`https://www.maplesoft.com/support/install/maple18_install.html` Maple 18 Installation and Licensing Guide.

`https://www.maplesoft.com/products/maple/new_features/maple18/index.aspx` Key New Features in Maple 18.

`https://www.youtube.com/watch?v=q3g3rXCjW5s` Youtube video by Maplesoft. See What's New in Maple 18 for Educators.

notes

" March 05, 2014

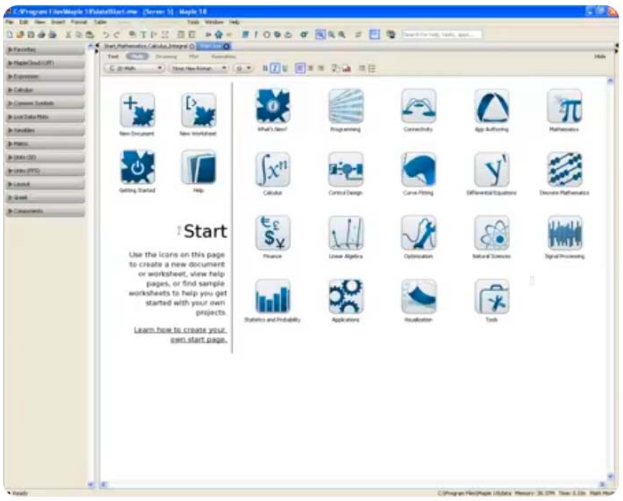
Maplesoft today announced a major new release of its flagship product, Maple, the technical computing software for engineers, mathematicians, and scientists. With Maple 18, Maplesoft introduces more specialized tools for engineering analysis and even more flexible technical application development tools to aid the creation and deployment of solutions throughout the organization ”

“ Key new and improved features in Maple 18:
- Time Series Analysis
- Powerful Search Tools
- Visualization
- Signal Processing
- Clickable Math
- Quiz Generation
- Math Apps and The Mobius Project
- One-Step App Creation
”

“ - Statistics: Maple 18 includes lots of enhancements to statistics computations and visualization, such as new time series functionality that allows you to find patterns, make forecasts, and visualize time-based data. For the classroom, a new Student Statistics package, together with a range of bundled Math Apps, provide a simplified and interactive environment for instructors and students alike.

- Physics: This package for representing and computing with concepts from general relativity to quantum mechanics continues to grow by leaps and bounds, with over 500 enhancements just in this release alone. We are convinced that this is the best computational environment available for researchers in this area.

Engineering: Key enhancements for control analysis, signal processing, and code generation to Python and Perl are just a few of the new features that engineers will note and appreciate. There’s even import/export for STL graphics files, which, amongst other things, means you can now print out your favorite Maple plots on a 3-D printer! ”



Version 18.1 (May, 2014)

links

`https://www.maplesoft.com/support/downloads/m2018_1update.aspx` Maple 2018.1 Update Update Details and Downloads

notes

“ Maplesoft has released Maple 2018.2, which contains all the enhancements in this update plus additional improvements. Visit Maple 2018.2 for details and to download.

- Enhancements to the mathematics engine, including the Physics package and differential equations
- Substantial improvements to the command line version, including color syntax highlighting, color character plots and preview image display, command history manipulation, and improved output
- Easier access to the MapleCloud group management tools, which have been incorporated into the MapleCloud web interface
- Double clicking an equation label will insert that label at your cursor position
- Improvements to the context panel
- F1 now opens up the entire help system instead of the Quick Help, which is instead displayed in the Context Panel at start-up
- Support for MapleSim 2018 ”

Version 18.2 (Nov, 2014)

links

`https://www.maplesoft.com/support/downloads/m2018_2update.aspx` Maple 2018.2 Update Update Details and Downloads

notes
“ - Improvements to code edit regions
- Improvements creating and handling Workbooks
- Enhancements to the Physics package
- Support for macOS 10.14 (Mojave)
- Updated version of Java on Windows and Linux
- Updates to supporting libraries: Python 3.6.6 and Libcurl 7.61.0
- Installer improvements
- Support for MapleSim 2018.2 ”

Version 2015 (March 04, 2015)

Maple changed format of version for Maple. Started using year for version number.

links

`https://www.maplesoft.com/support/help/category.aspx?cid=1463` Mapla 2015 Category Documents.

`https://www.maplesoft.com/support/install/maple2015_install.html` Maple 2015 Installation and Licensing Guide.

`https://www.maplesoft.com/products/maple/new_features/maple2015/index.aspx` What’s New in Maple 2015.

`https://www.maplesoft.com/support/help/Maple/view.aspx?path=updates/Maple2015/index` Index of New Commands and Packages in Maple 2015.

`https://www.youtube.com/watch?v=kMBELu-4wu4&t=4s` Youtube video by Maplesoft. See What’s New in Maple 2015

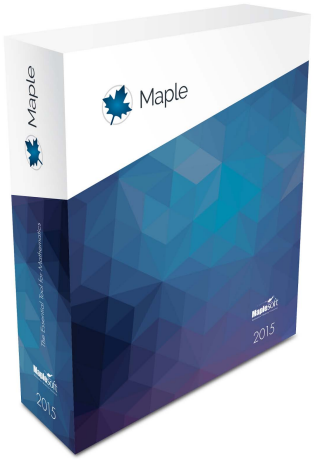
`https://www.mapleprimes.com/maplesoftblog/200713-Maple-2015-Is-Now-Available` Mapleprimes post.

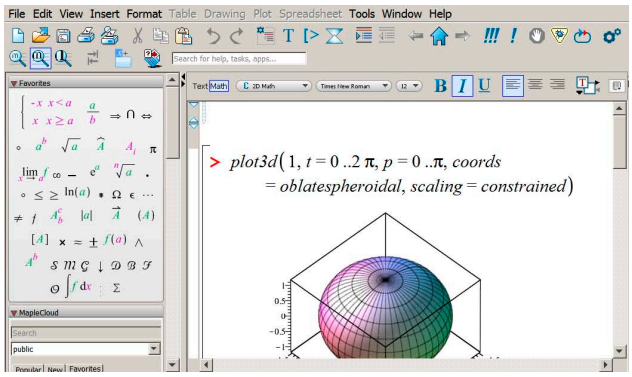
`https://files.wolframcdn.com/pub/www.wolfram.com/mathematica/compare-mathematica/files/ReviewOfMaple2015.pdf` PDF file compares Maple 2015 features with Mathemnatica.

notes

"Maple 2015 includes powerful tools for access, analysis, and visualization of data
March 04, 2015
Maplesoft today announced a major new release of its flagship product, Maple, the mathematical computing software for education, research, and development involving mathematics, engineering, and the sciences. With Maple 2015, Maplesoft offers important new abilities to both educators and researchers in the areas of data analysis, application development, statistics education, and more. "

"Key new and improved features in Maple 2015:
- Data Sets
- Data Plots
- Visualization
- MapleCloud
- Interctive Components
- Iterative Maps
- Ordinals
- One-Step App Creation "





Version 2015.1 (Nov, 2015)

links

`https://www.maplesoft.com/support/downloads/m2015_1update.aspx` Maple 2015.1 Update Details and Downloads.

`https://www.mapleprimes.com/posts/200900-Maple-20151` Maple 2015.1 announcement post at Maple primes.

notes

“Maple 2015.1, a maintenance update, is available to all users running Maple 2015.

This update contains a variety of improvements to Maple 2015, including:

- Support for high-resolution monitors (e.g. 4K, UHD)
- Updated translations for Brazilian Portuguese, French, Japanese, and Simplified Chinese
- Enhancements to the Explore command
- Improvements to the DataSets package
- Updates to the Microsoft Excel plug-in
- Enhancements to unit handling
- A variety of improvements to the math engine, interface, and documentation ”

Version 2015.1a (?)

links

`https://www.maplesoft.com/support/downloads/m2015_1aupdate.aspx` Maple 2015.1a Update Details and Downloads.

notes
“Maple 2015.1a (build 1049007), a maintenance update, is available to all users running Maple 2015. This update contains the improvements added in Maple 2015.1, plus one additional fix:

Corrects an issue with hardware float evaluations involving some negative fractional powers of negative numbers ”

Version 2015.2 (?)

links

`https://www.maplesoft.com/support/downloads/m2015_2update.aspx` Maple 2015.2 Update Details and Downloads.

“Maple 2015.2 is a maintenance update to Maple 2015. It includes:

- Support for new operating systems: Windows 10
- Support for MATLAB 2015b
- Improvements to the Physics package
- Support for MapleSim 2015.2
- Numerous small improvements throughout the product ”

Version 2015.2a (?)

links

`https://www.maplesoft.com/support/downloads/m2015_2aupdate.aspx` Maple 2015.2a Update Details and Downloads.

"Maple 2015.2a is a maintenance update to Maple 2015. It provides a correction to a problem that occurred when calculating particular forms of sums when they were entered as input."

Version 2016 (March 2, 2016)

links

`https://www.maplesoft.com/company/news/releases/2016/2016-03-02-New-Maple-2016-offers-advanced-problem-s.aspx` Release notes.

`https://www.maplesoft.com/products/maple/new_features/maple2016/index.aspx` Maplesoft page on Maple 2016.

`https://www.maplesoft.com/support/help/category.aspx?cid=1464` Mapla 2016 Category Documents.

`https://www.maplesoft.com/support/help/Maple/view.aspx?path=updates/v2016` What's New in Maple 2016.

`https://www.maplesoft.com/support/help/Maple/view.aspx?path=updates/Maple2016/index` Index of New Commands and Packages in Maple 2016.

`https://www.mapleprimes.com/maplesoftblog/202794-Announcing-Maple-2016` Mapleprimes post.

`https://www.youtube.com/watch?v=YwDCun-86CM&t=1s` Maple youtube video.

`https://www.engineering.com/maple-2016-release-expands-engineering-science-and-math-applications/` post at engineering.com on Maple 2016.

notes

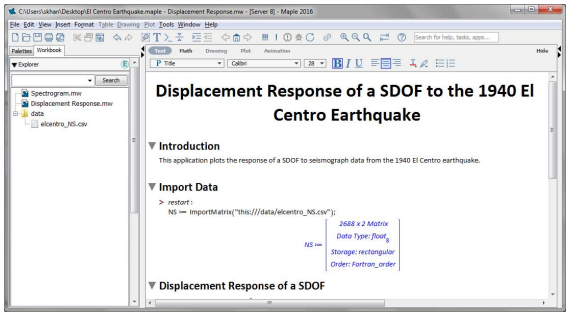
"New Maple 2016 offers advanced problem-solving for math, science, engineering
March 02, 2016
Maplesoft today announced a major new release of its flagship product, Maple, the mathematical software that makes it extremely easy to analyze, explore, visualize, and solve math problems.

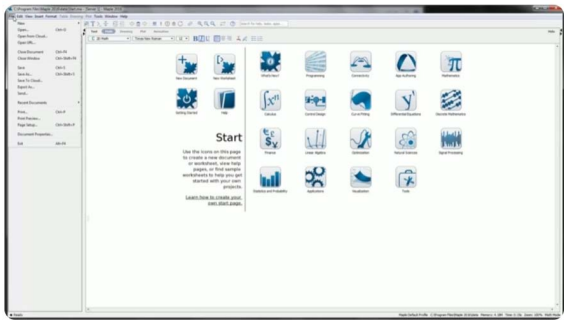
Maple 2016 includes enhancements through the entire product. It solves more mathematical problems from differential equations, statistics, graph theory, and many other mathematical

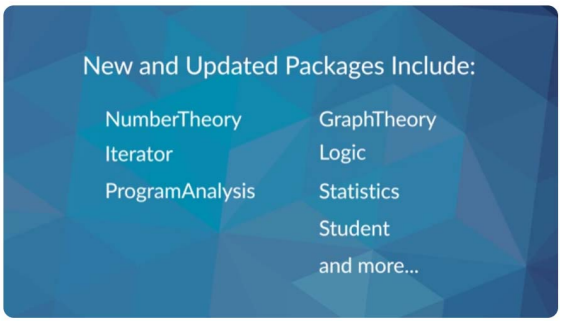
domains. It also provides new Clickable Math options and other usability enhancements throughout the product."

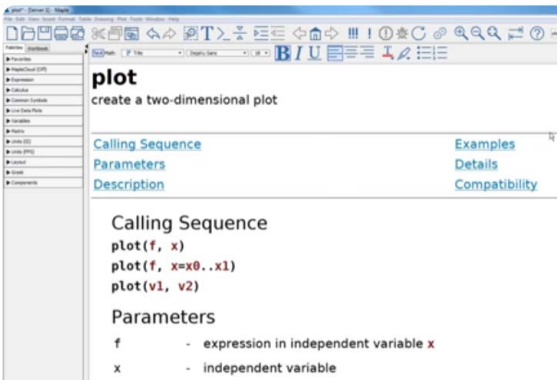
"Key new and improved features in Maple 2016:
- Data Series and Data Frames
- Group Theory
- Logic
- Number Theory
- Physics
- Iterators
- Statistics
- One-Step App Creation"

"By far, the biggest improvement in Maple 2016 is the new Maple Workbook"

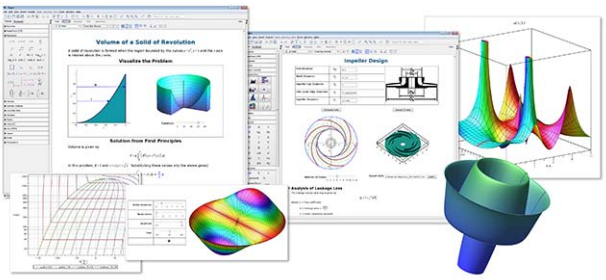

Displacement Response of a SDOF to the 1940 El Centro Earthquake
Introduction
This application plots the response of a SDOF to seismograph data from the 1940 El Centro earthquake.
Import Data
Displacement Response of a SDOF


Start


New and Updated Packages Include:
NumberTheory
Iterator
ProgramAnalysis
GraphTheory
Logic
Statistics
Student
and more...


plot
create a two-dimensional plot
Calling Sequence
Parameters
Description
Examples
Details
Compatibility
Calling Sequence
plot(f, x)
plot(f, x=x0..x1)
plot(v1, v2)
Parameters
f - expression in independent variable x
x - independent variable

Maple



Version 2016.1 (April 20, 2016)

links

`https://www.maplesoft.com/support/downloads/m2016_1update.aspx` Maple 2016.1 Update Details and Downloads.

notes
"Maple 2016.1 is a maintenance update to Maple 2016. It contains a variety of improvements to Maple 2016, including:

- Updated translations for Simplified and Traditional Chinese, French, Greek, Japanese, Brazilian Portuguese, and Spanish
- Updates to the new Maple Workbook
- Enhancements to Maple's context-sensitive menus
- A variety of improvements to the math engine and interface"

Version 2016.1a (April 27, 2016)

links

`https://www.maplesoft.com/support/downloads/m2016_1aupdate.aspx` Maple 2016.1a Update Details and Downloads.

notes
"Maple 2016.1a (build 1133417), a maintenance update, is available to all users running Maple 2016. This update contains the improvements added in Maple 2016.1, plus one additional fix:

Corrects a problem in math notation input that can occur when using the symbol with implicit multiplication "

Version 2016.2 (January 17, 2017)

links

`https://www.maplesoft.com/support/downloads/m2016_2update.aspx` Maple 2016.2 Update Details and Downloads.

`https://www.mapleprimes.com/posts/207810-Update-For-Maple-2016` Post at Mapleprimes.

notes
"Maple 2016.2 is a maintenance update to Maple 2016. It contains a variety of improvements to Maple 2016, including:

- Changes to the file formats supported by the video component, including the addition of .mp4 files
- Improvements to the Maple Workbook
- Improvements to the Physics package
- Updated language pack for Brazilian Portuguese
- Support for MapleSim 2016.2
- Numerous small improvements throughout the product"

"We have just released an update to Maple. It includes updates to the Maple Workbook, the video component, the Physics package, and many other small improvements throughout the product."

Version 2017 (May 25, 2017)

links

`https://www.maplesoft.com/support/help/category.aspx?cid=1465` Mapel 2017 Category Documents.

`https://www.maplesoft.com/support/help/Maple/view.aspx?path=updates/v2017` What's New in Maple 2017.

`https://www.maplesoft.com/support/help/Maple/view.aspx?path=updates/Maple2017/index` Index of New Commands and Packages in Maple 2017.

`https://www.maplesoft.com/company/news/releases/2017/2017-05-25-Maple2017-Now-Available.aspx` Release notes.

`https://www.mapleprimes.com/maplesoftblog/208276-Announcing-Maple-2017` Mapleprimes post.

`https://www.maplesoft.com/products/maple/new_features/Maple2017/PartialDifferentialEquations.pdf` PDF file new methods for solving PDEs.

`https://www.youtube.com/watch?v=qKABi7e0yk4&t=5s` Youtube video. Maple 2017 Highlights

`https://www.youtube.com/watch?v=aTSDLW4BWLY` Youtube video. Something for Everyone: Maple 2017 for Education and Research.

`https://www.youtube.com/watch?v=LeB_2B0_2os` Youtube video. How to Install and Activate Maple 2017.

notes

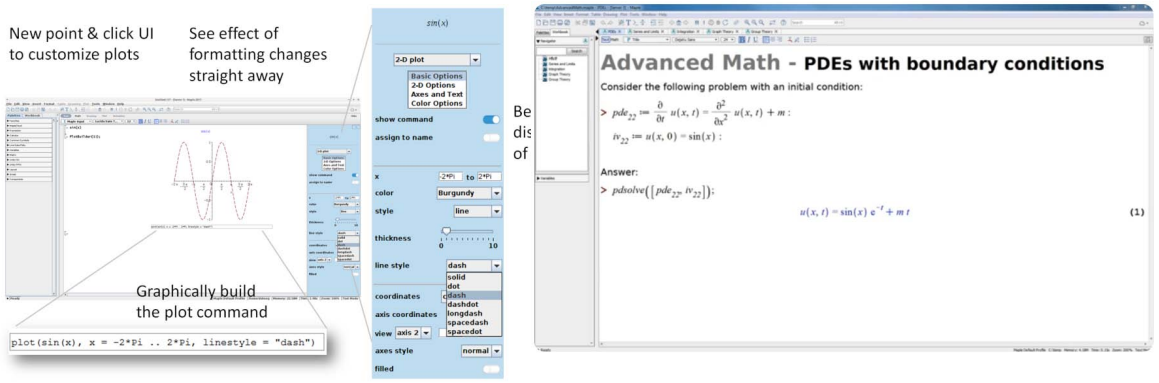
"Waterloo, Canada; May 25, 2017: Maplesoft today announced a major new release of its

flagship product, Maple, the mathematical software that makes it extremely easy to analyze, explore, visualize, and solve math problems.

The result of over 30 years of development, Maple already has comprehensive mathematical coverage and extensive usability features, but with continuous development efforts, this release includes a large number of useful improvements that existing customers will welcome ”

“Key new and improved features in Maple 2017:
- MapleCloud Package Manager
- Interactive Plot Builder
- Visualization
- Integration
- Password Protected Worksheets
- Advanced Mathematics
- World Maps and Geographic Data”

“Maple 2017 completely refreshes the MapleCloud experience. Allied with a new, crisp, interface, you can now download and install user-created packages.”



Version 2017.1 (June 28, 2017)

links

`https://www.maplesoft.com/support/downloads/m2017_1update.aspx` Maple 2017.1 Update Details and Downloads.

`https://www.mapleprimes.com/posts/208353-Maple-20171-Update` Post at Mapleprimes

notes

“Maple 2017.1 is a maintenance update to Maple 2017. It contains a variety of improvements to Maple 2017, including:

- Improved display on high resolution monitors, including the table of contents in the help

system, the Maple debugger, and the MapleCloud
- A variety of improvements to the math engine, including limits, series, physics, and typesetting
- Enhancements to tools for creating packages and help pages
- Improved help pages"

"We have just released an update to Maple, Maple 2017.1. It includes improvements to the display on high resolution monitors for the debugger, MapleCloud, and help system table of contents. It also contains a variety of small improvements to the math engine, including in limit, series, Physics, typesetting, and PackageTools"

Version 2017.2 (August 2, 2017)

links

`https://www.maplesoft.com/support/downloads/m2017_2update.aspx` Maple 2017.2 Update Details and Downloads.

notes
"Maple 2017.2 is a maintenance update to Maple 2017. It contains a variety of improvements to Maple 2017, including:

- Updated translations for Japanese, Traditional Chinese, Simplified Chinese, Brazilian Portuguese, French, and Spanish
- Improvements to the MapleCloud
- Updates to the Physics package
- A variety of improvements to the math engine, including in limits and PDEs"

Version 2017.3 (October 3, 2017)

links

`https://www.maplesoft.com/support/downloads/m2017_3update.aspx` Maple 2017.3 Update Details and Downloads.

"Maple 2017.3 is a maintenance update to Maple 2017. It contains a variety of improvements to Maple 2017, including:

- Improvements to the MapleCloud, including a correction that will allow users to sign in with their Google account from a Mac
- Enhancements to pdsolve and the Physics package
- Updates to external libraries: cURL 7.55.1 and zlib 1.2.12

- Improvements to mathematical typesetting
- Support for MapleSim 2017”

Version 2018 (March 21, 2018)

links

`https://www.maplesoft.com/company/news/releases/2018/2018-03-21-Maple2018-Release.aspx` Release notes.

`https://www.maplesoft.com/support/help/category.aspx?cid=1465` Mapel 2017 Category Documents.

`https://www.maplesoft.com/products/maple/new_features/Maple2018/` What’s New in Maple 2018.

`https://www.maplesoft.com/support/help/maple/view.aspx?path=updates/v2018` another What’s New in Maple 2018.

`https://www.maplesoft.com/support/help/maple/view.aspx?path=updates/Maple2018/index` Index of New Commands and Packages in Maple 2018.

`https://www.youtube.com/watch?v=ECjwq2qVc-8&t=91s` Youtube video.

`https://www.youtube.com/watch?v=dXBy8MqT48E` Youtube video. Maple 2018 for Education and Research.

`https://www.mapleprimes.com/maplesoftblog/209095-Maple-2018-Is-Here-` Mapleprimes post.

notes
“Waterloo, Canada; Mar. 21, 2018: Maplesoft today announced a major new release of its flagship product, Maple, the mathematical software that makes it extremely easy to analyze, explore, visualize, and solve math problems. Maple 2018 includes substantial improvements to how customers interact with Maple, providing significant benefits to all users no matter what they use Maple for.”

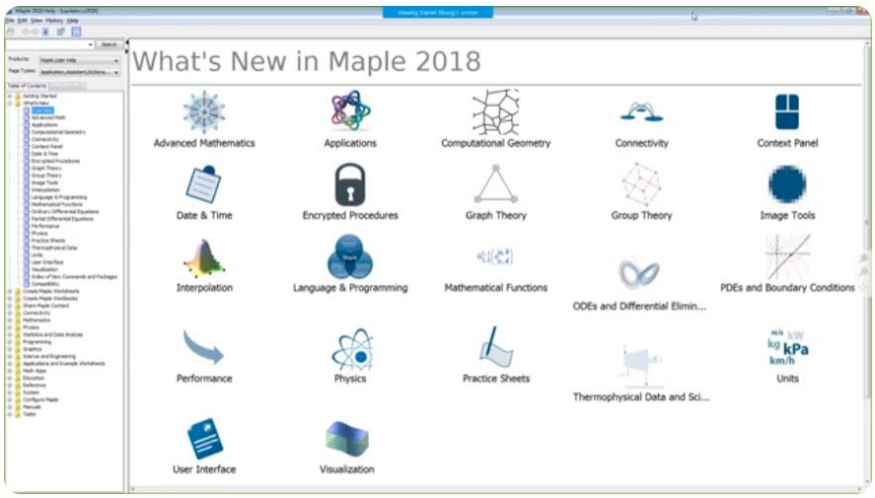
“ These improvements include:

- An intelligent Context Panel, which brings together and enhances some of Maples most powerful Clickable Math tools, providing point-and-click access to a wide variety of mathematical operations and other Maple tools.
- Significant enhancements to Maples code editor, which makes writing, debugging, and maintaining Maple code and Maple-based applications easier and faster than before.
- Deeper integration of units into the mathematics engine that significantly simplifies units-based calculations.

- New options for protecting work from modification or viewing, so customers can share their work while remaining in control of their conten ”

“Key new and improved features in Maple 2018:
- Intelligent Context Panel
- Coding Tools
- Units Support
- Protection of Content from Changes
- Encrypted Procedures
- Computational Geometry
- Student Practice Sheets ”

“The build number for Maple 2018 is 1298750”



Version 2018.1 (June 18, 2018)

links

`https://www.maplesoft.com/support/downloads/m2018_1update.aspx` Maple 2018.1 Update.

`https://www.mapleprimes.com/posts/209366-Maple-20181-Update` Maple primes post.

“ - Enhancements to the mathematics engine, including the Physics package and differential equations
- Substantial improvements to the command line version, including color syntax highlighting, color character plots and preview image display, command history manipulation, and improved output
- Easier access to the MapleCloud group management tools, which have been incorporated into the MapleCloud web interface

- Double clicking an equation label will insert that label at your cursor position
- Improvements to the context panel
- F1 now opens up the entire help system instead of the Quick Help, which is instead displayed in the Context Panel at start-up
- Support for MapleSim 2018"

"This release provides enhancements to the mathematical computation engine, including physics and DEs. It also provides substantial improvements to the command line version, easier access to group management tools in the MapleCloud, and a few other interface improvements."

Version 2018.2 (November 01, 2018)

links

`https://www.mapleprimes.com/posts/209769-Maple-And-MapleSim-20182-Updates` Mapleprimes post.

`https://www.maplesoft.com/support/downloads/m2018_2update.aspx` Maple 2018.2 Update.

"-Improvements to code edit regions
- Improvements creating and handling Workbooks
- Enhancements to the Physics package
- Support for macOS 10.14 (Mojave)
- Updated version of Java on Windows and Linux
- Updates to supporting libraries: Python 3.6.6 and Libcurl 7.61.0
- Installer improvements
- Support for MapleSim 2018.2"

"This release includes improvements in a variety of areas, including code edit regions, Workbooks, and Physics, as well as support for macOS 10.14. "

Version 2018.2.1 (early 2019)

links

`https://www.maplesoft.com/support/downloads/m2018_2_1update.aspx` Maple 2018.2.1 Update.

"Maple 2018.2.1 is a maintenance update to Maple 2018. It contains a variety of improvements to Maple 2018, including:

- Corrects a problem that sometimes interfered with PlotBuilder plots and data tables after a restart
- Fixes a problem that resulted in a noterminate error message
- Improves Japanese palette translations"

Reference

- `https://www.maplesoft.com/products/maple/history/` Maple Product History.
- `https://www.maplesoft.com/anniversary/` timeline shows some of the milestones.
- `https://maplesoft.com/support/help/category.aspx?cid=37` Maple support site.
- `https://www.maplesoft.com/company/news/` Maplesoft Media Releases.
- `https://en.wikipedia.org/wiki/Maple_(software)` wikipedia.
- `http://ftp.informatik.rwth-aachen.de/maple/mplhist.htm` Web page on history of Maple.
- `https://www.mapleprimes.com/posts/Announcements` Announcements pages at Maple primes site.
- Some images for old Maple versions are thanks to MapleTech magazine, different issues.
- Google AI answers.