

A little bit of Maple history

Nasser M. Abbasi

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1 Maple 1.0 (January 1982)

No release notes found.

“Early versions of Maple (through version 4.0) were primarily command-line based, especially for PC users running DOS”

“Maple development started on a Honeywell system in B when the project began in 1980. When Waterloo acquired a VAX in 1981, we ported Maple to C.”

2 Maple 1.1 (January 1982)

No release notes found.

3 Maple 2.0 (May 1982)

No release notes found.

notes “Key Feature: Introduced generation of C code from differential elimination results, a big step for engineering applications.

Ran on workstations like IBM RS/6000 and Sun”

4 Maple 2.1 (June 1982)

No release notes found.

5 Maple 2.15 (August 1982)

No release notes found.

6 Maple 2.2 (December 1982)

No release notes found.

7 Maple 3.0 (May 1983)

No release notes found.

8 Maple 3.1 (October 1983)

No release notes found.

9 Maple 3.2 (April 1984)

No release notes found.

10 Maple 3.3 (July 31, 1984)

No release notes found.

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

11 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”

12 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

13 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 V Release 2 introduced the "worksheet" interface which allowed users to combine text, graphics, and input/output, and for the first time, displayed mathematical output in textbook-standard notation. This "Classic" interface, which used only 1D Math, remained available in later versions (up to Maple 2021) as a legacy option.”

14 Maple 4.3 (March 1989)

No release notes found.

“The first graphical user interface was introduced with version 4.3 for the Macintosh platform, followed by X11 and Windows versions in 1990 with Maple V.”

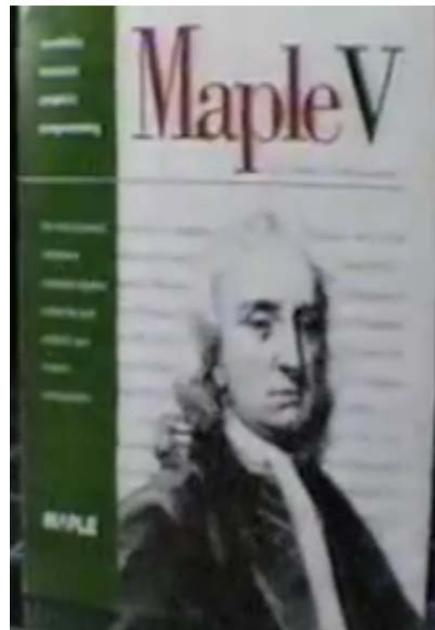
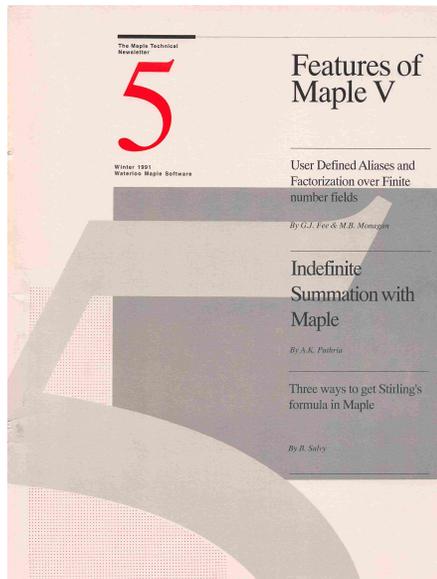
15 Maple V (February 8, 1990)

links

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

notes

2000 builtin functions.



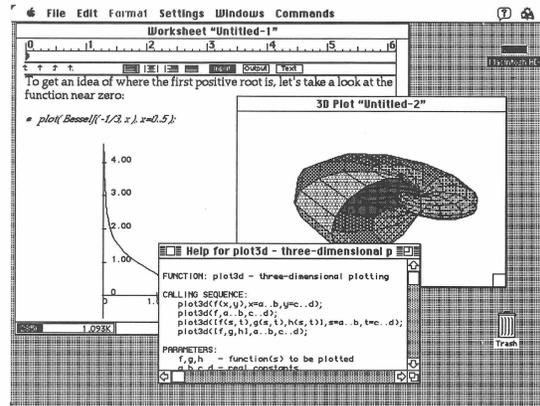
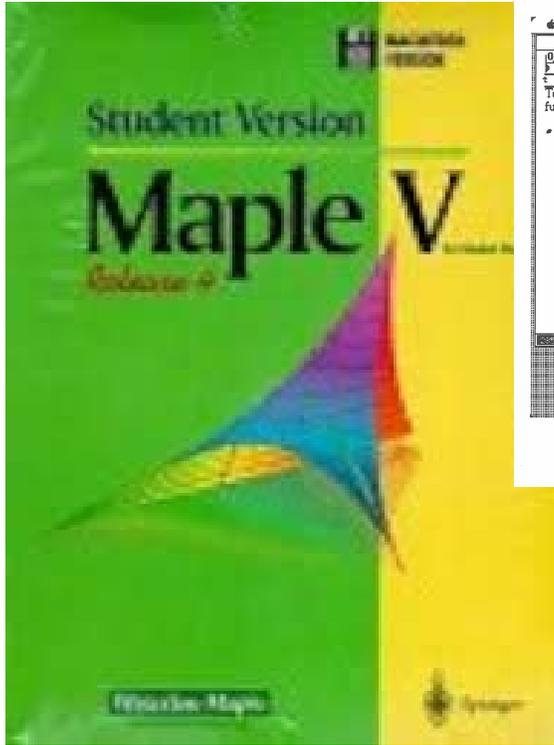
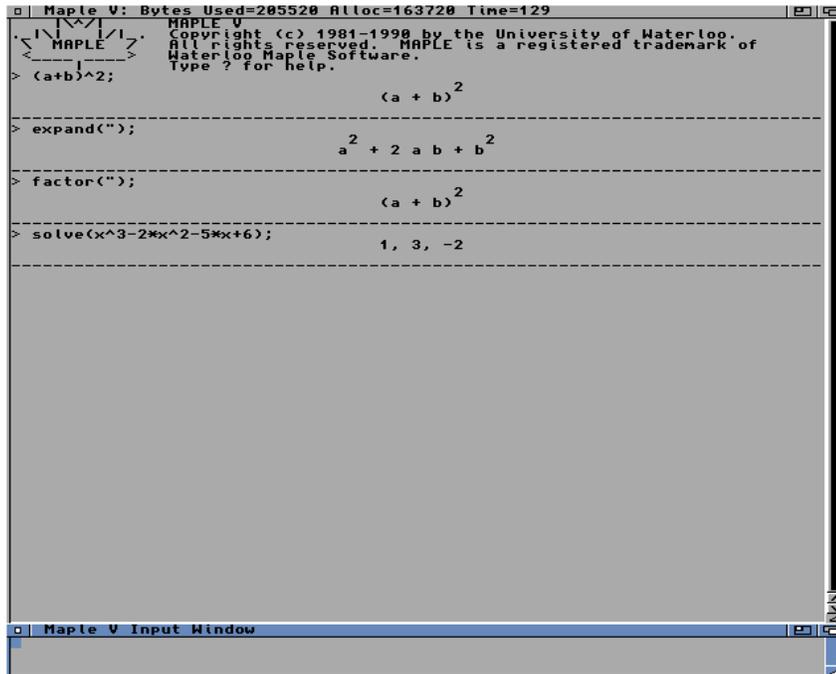
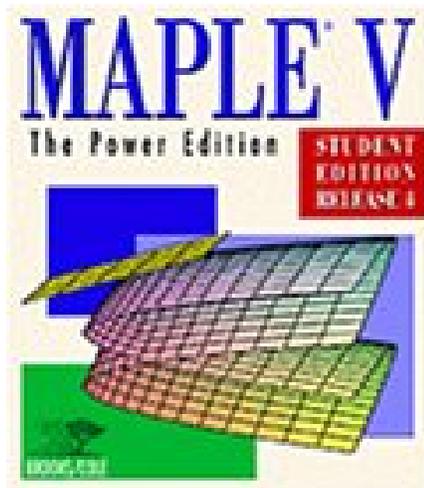
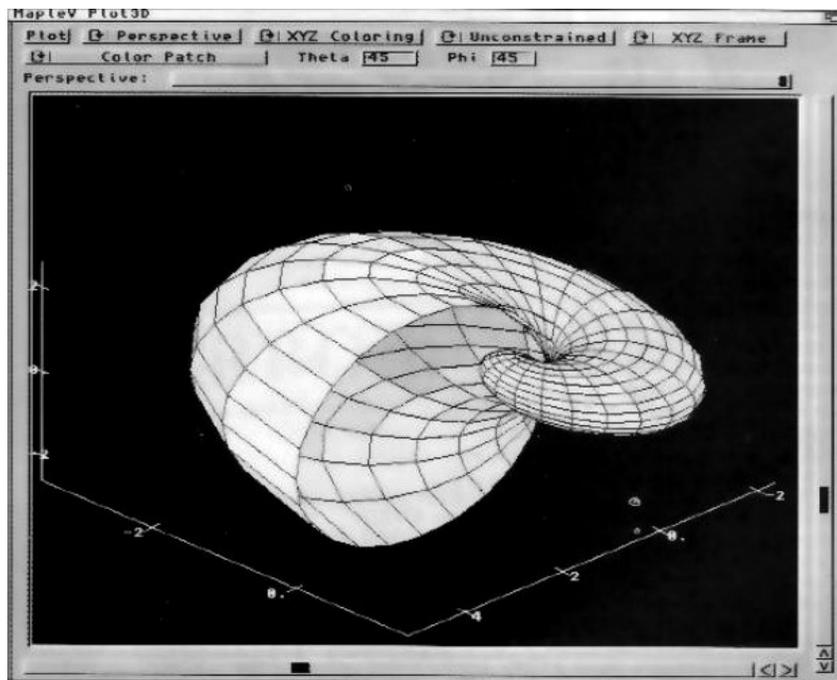


Figure 1. A sample Maple V for the Macintosh session



```
Maple V
MAPLE V
Copyright (c) 1981-1998 by the University of Waterloo.
All rights reserved. MAPLE is a registered trademark of
Waterloo Maple Software.
Type ? for help.
> (2*x+3)/(3*x-5);
      2 x + 3
      -----
      3 x - 5
-----
> diff(",x);
      2      2 x + 3
      3 x - 5 - 3 -----
                    (3 x - 5) ^ 2
-----
> normal("");
      19
      -----
      (3 x - 5) ^ 2
-----
Maple V Input Window
```

```
Maple V
MAPLE V
Copyright (c) 1981-1998 by the University of Waterloo.
All rights reserved. MAPLE is a registered trademark of
Waterloo Maple Software.
Type ? for help.
> evalf(Pi,70);
3.141592653589793238462643383279502884197169399375105820974944592307816
-----
Maple V Input Window
```



16 Maple V Release 1.0 (August 1990)

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

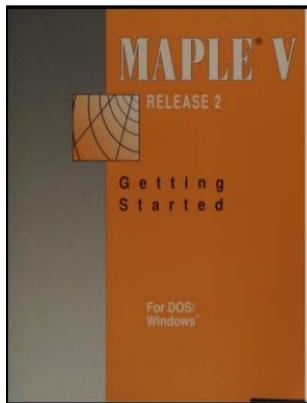
17 Maple V Release 2.0 (November 17, 1992)

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 2 (ETH Zurich)
     _|\|  |/_   Copyright (c) 1981-1993 by the University of Waterloo.
    \  MAPLE /  All rights reserved. Maple and Maple V are registered
     <-----> trademarks of Waterloo Maple Software.
      |         Type ? for help.
  
```

```
> 2*Pi*int( F(sqrt(3*t))/2, t )/3/exp(t/2) + exp(t)/F(t,2/3);
```

$$\frac{\pi}{2/3} \int \frac{1/2 F(3^{1/2} t^{1/2}) dt}{\exp(1/2 t)} + \frac{\exp(t)}{F(t, 2/3)}$$

The following examples involve trigonometric functions
This problem describes the positioning of a simple two-part robot arm. The answer is a little bulky having a degree 2 algebraic function.

```

> eq[1] := x - (k[1]*cos(t[1]) + k[2]*cos(t[1]+t[2]));
> eq[2] := y - (k[1]*sin(t[1]) + k[2]*sin(t[1]+t[2]));
> eqns := {eq[1],eq[2]};
> solve( eqns, {t[1],t[2]} );
  
```

$$eq_1 := x - k_1 \cos(t_1) - k_2 \cos(t_1 + t_2)$$

$$eq_2 := y - k_1 \sin(t_1) - k_2 \sin(t_1 + t_2)$$

$$t_1 = \arctan\left(\frac{-2xk_1 + k_1^2 - k_2^2 + y^2 + x^2}{yk_1}, \frac{k_1}{k_1}\right)$$

$$t_2 = \arctan\left(\frac{(-2xk_1^2 + k_1^2 + k_1x^2 - k_1k_2^2 + k_1y^2)y}{k_1k_2(-2xk_1 + k_1^2 - k_2^2 + y^2 + x^2)}, \frac{x^2 - k_1}{k_1k_2}\right)$$

$$\%1 := \text{RootOf}\left(2y^2x^2 + y^4 + x^4 + k_1^4 + k_2^4 + 2x^2k_1^2 - 2x^2k_2^2 - 2y^2k_1^2 - 2y^2k_2^2 - 2k_1^2k_2^2 + (-4xk_1^2 + 4xk_2^2 - 4y^2x - 4x^3)z + (4x^2 + 4y^2)z^2\right)$$

18 Maple V Release 3.0 (March 3 1994)

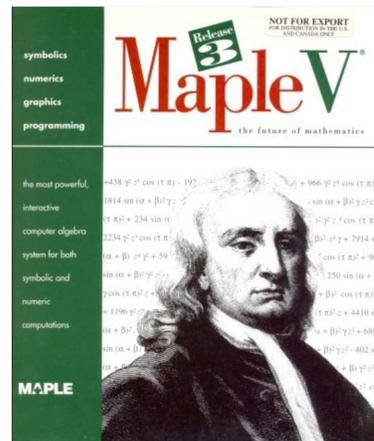
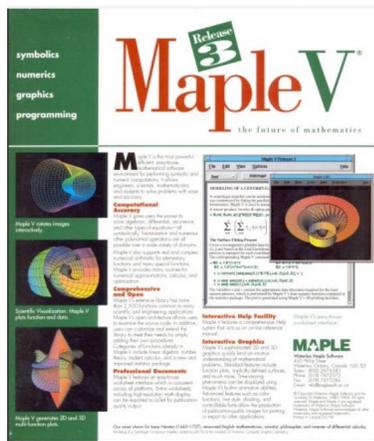
[links](#)

<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”



19 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”

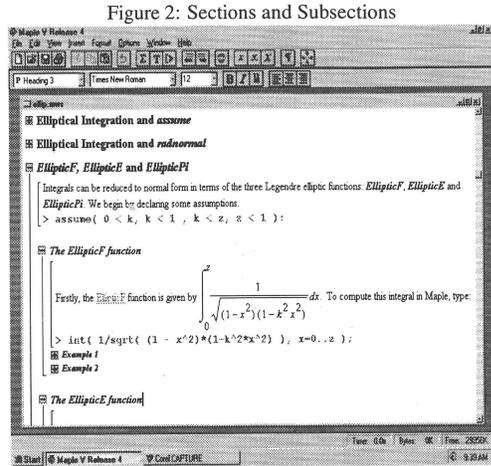
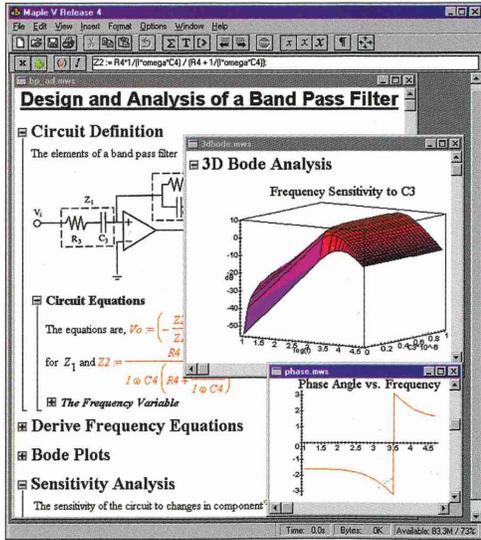


Figure 4: Creating a Hyperlink

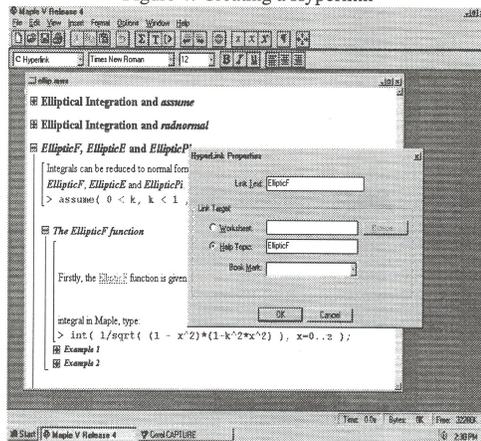


Figure 6: A Help Page

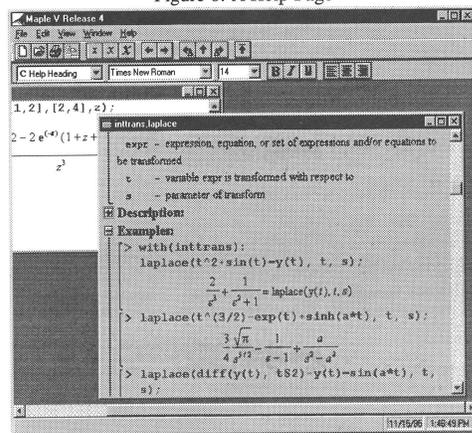


Figure 3: Style Selection and Modification

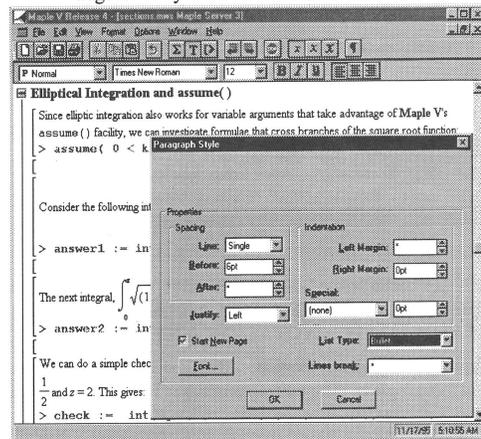
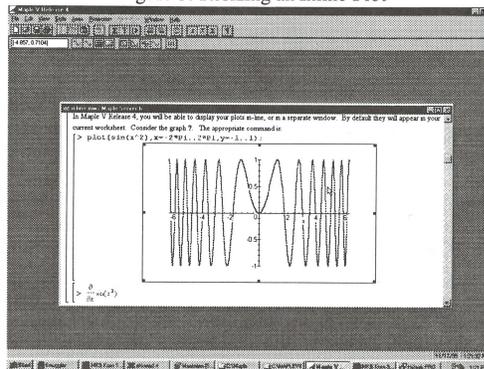
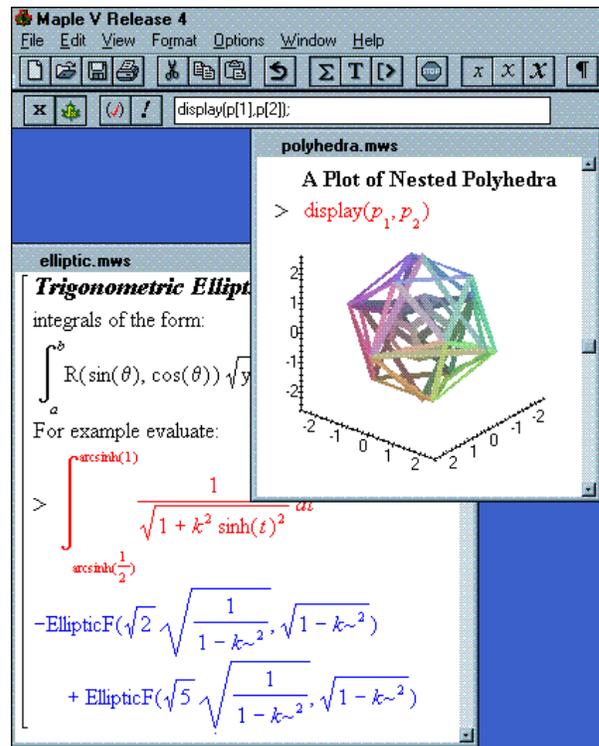
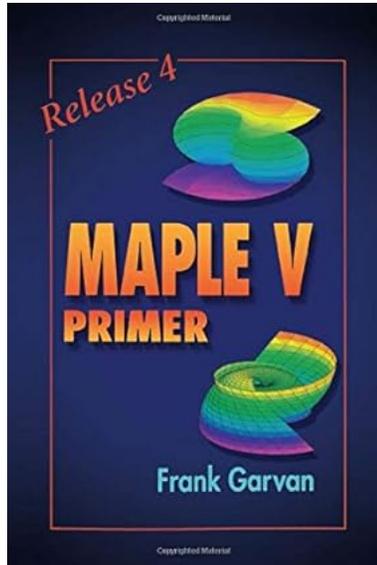


Figure 5: Resizing an Inline Plot





20 Maple V Release 5.0 (November 01, 1997)

links

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

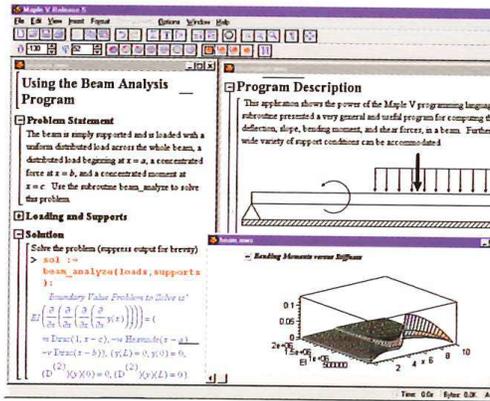
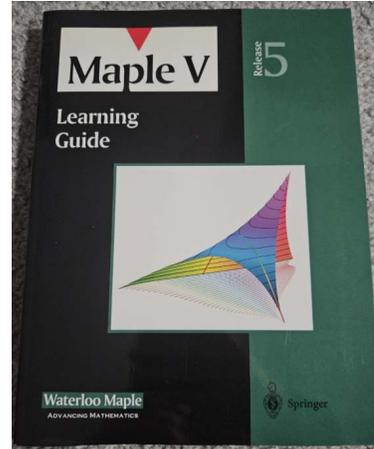
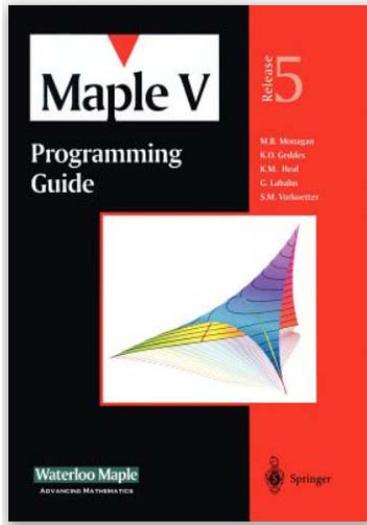
<https://maplesoft.com/support/help/maple/view.aspx?path=updates/v55>

<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.”

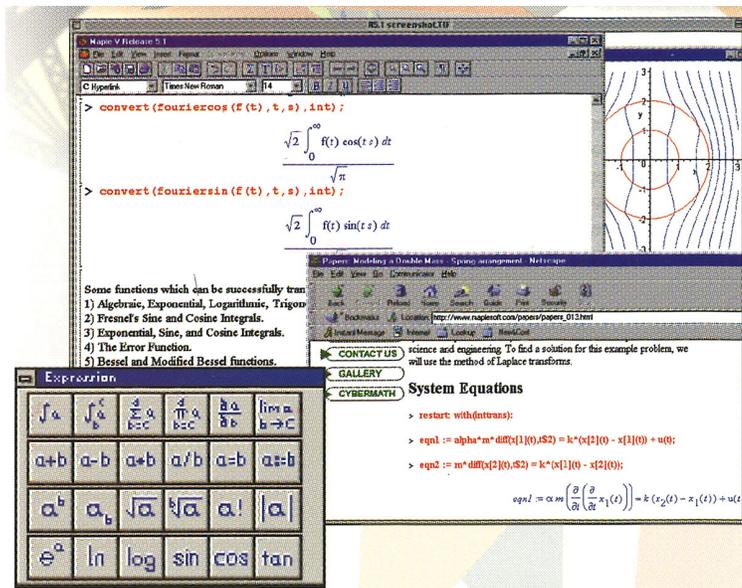
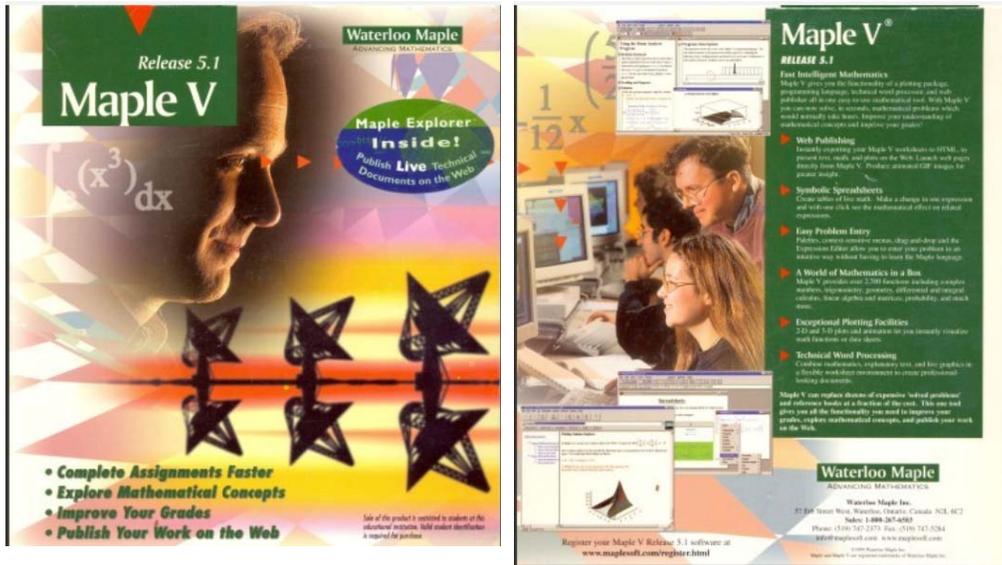


21 Maple V Release 5.1 (October 27, 1998)

<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.”



22 Version 6.0 (December 6, 1999)

links

https://www.maplesoft.com/products/maple/history/pastversions_maple6.aspx Summary of features introduced in Maple 6

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.”

“NAG-Based Numerics for Efficient Numerical Linear Algebra”

“Excel users can harness the power of Maple inside spreadsheets.”

“For the first time, users can export Maple graphics to other formats like GIF and EPS”

22.1 Version 6.02 (February 23, 2000)

links

<https://www.maplesoft.com/support/downloads/install.aspx> Maple 6 Installation and Licensing Guide Release 6.02.

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”

23 Version 7.0 (July 1, 2001)

links

<https://www.maplesoft.com/support/help/Maple/view.aspx?path=updates/v7> New Features That Have Been Added to Maple 7

<https://www.maplesoft.com/support/help/Maple/view.aspx?path=updates/Maple7/language> Language and System changes in Maple 7

notes

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

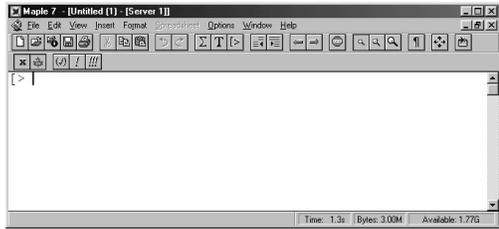


Figure 1.1 Maple worksheet window.

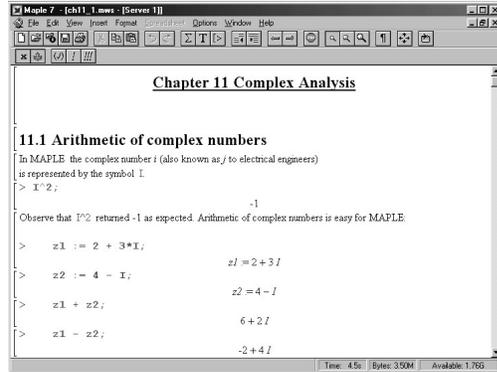
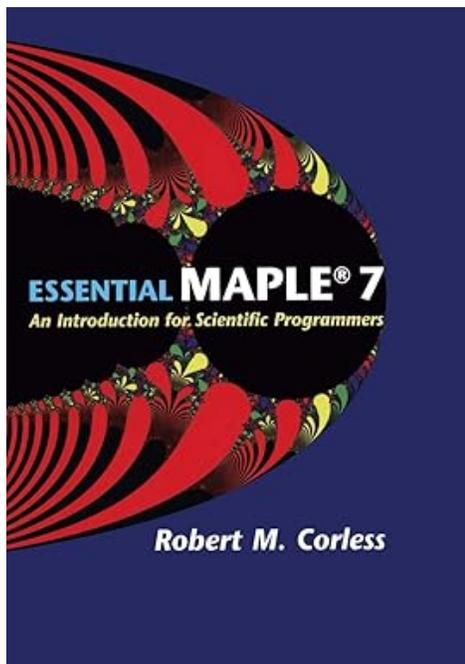


Figure 12.1 A downloaded worksheet.



24 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

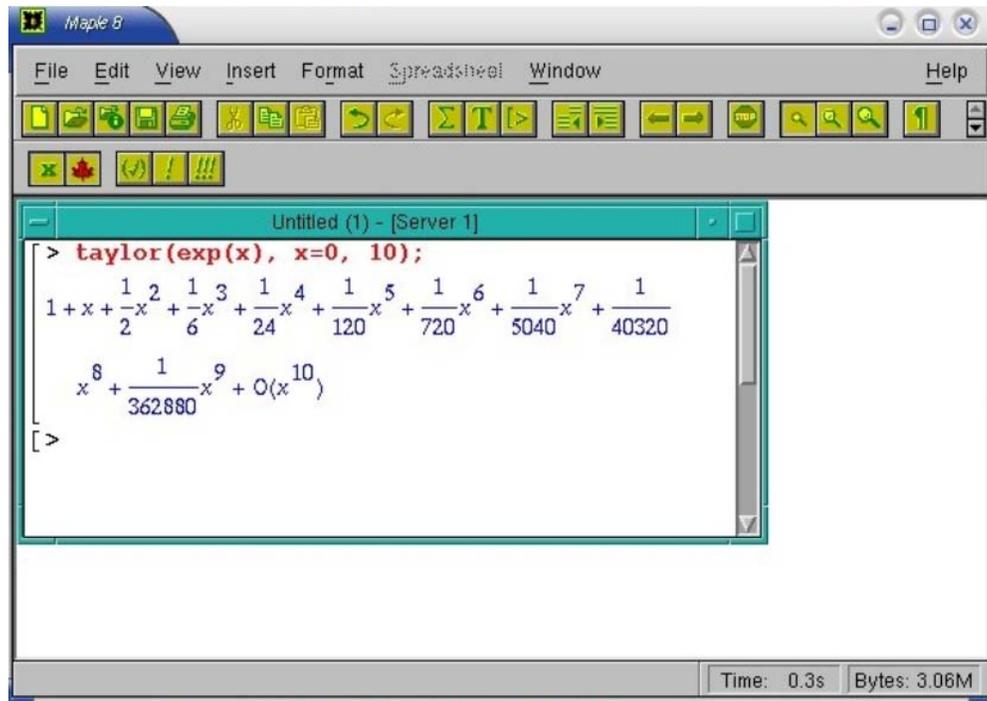
“Differential Equations - In Maple 8, the pdsolve command computes numerical solutions for PDEs subject

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.”

The following is image of classical interface (not Java one)



25 Version 9.0 (May 15, 2003)

[links](#)

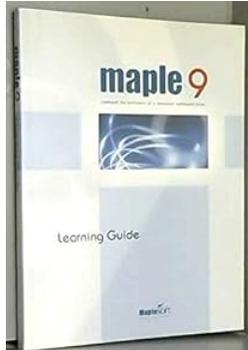
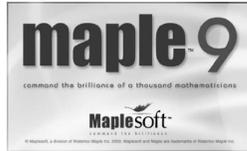
<https://www.maplesoft.com/support/help/maple/view.aspx?path=updates/Maple9/index> Index of New Maple 9 Features

<https://www.maplesoft.com/support/help/maple/view.aspx?path=updates/v9> 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

<https://www.maplesoft.com/support/help/Maple/view.aspx?path=updates/Maple9/gui> Maple 9 Graphical User Interface (GUI) Improvements

[notes](#) “The current "Standard" interface, primarily written in Java, was introduced with Maple 9.”



25.1 Version 9.5 (sometime in 2004)

No release notes found.

[links](#)

<https://www1.udel.edu/topics/os/unix/package/maple/> Some images thanks to this site. University of Delaware.

[notes](#) “Key new and improved features in Maple 9.5:

MapleNet integration

Optimization and logic packages

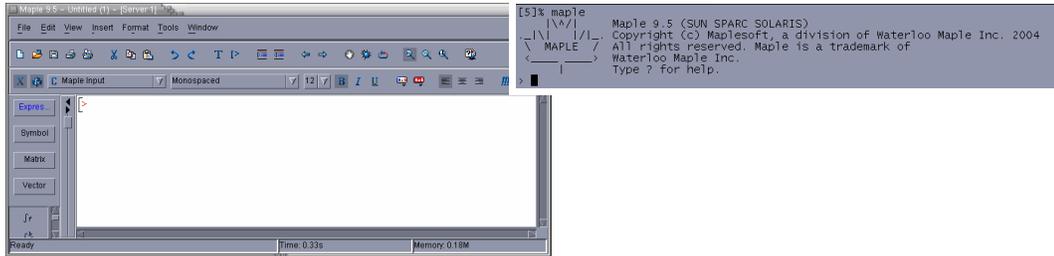
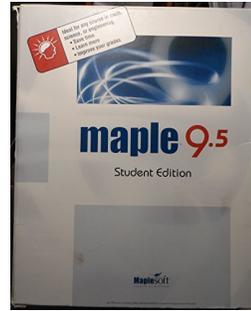
Math dictionary, enhanced plot builder

Dockable palettes

Student package for Multivariate Calculus ”

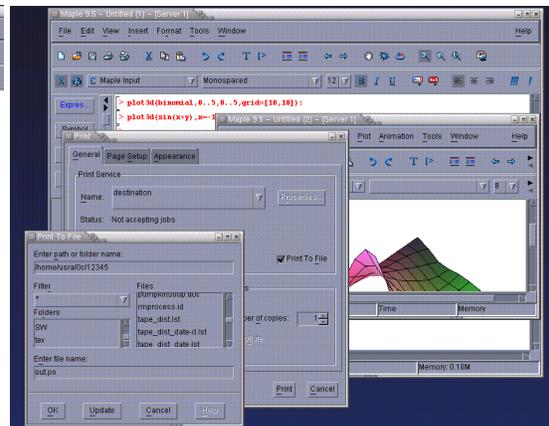
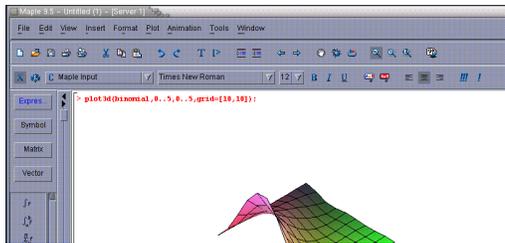
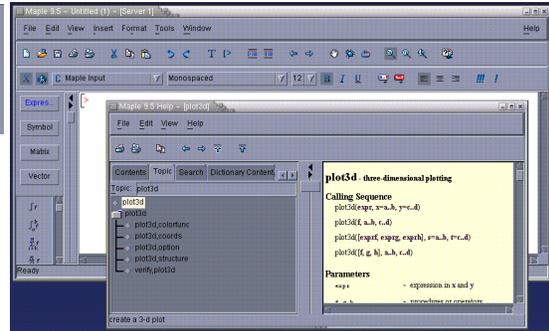
“Maple 9.5, released around 2004, brought significant enhancements over previous versions, focusing on interactive tools, new packages (Optimization, Logic, Student Calculus), MapleNet integration, enhanced plotting, dockable palettes, and improved symbolic capabilities, especially in differential equations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

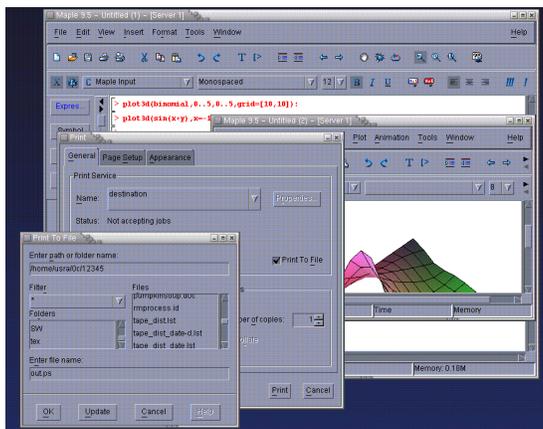
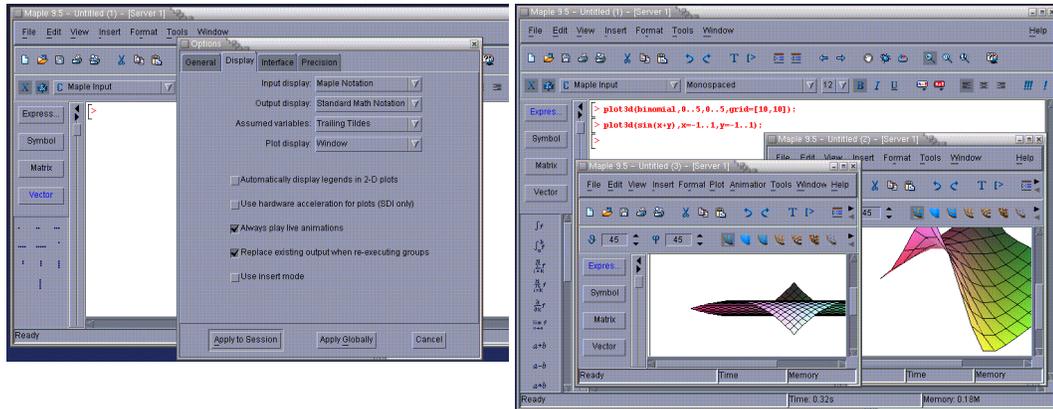
Key updates included better handling of complex functions (like Re, Im, conjugate) and performance boosts for certain calculations. ”



```

> ?plot3d
plot3d - three-dimensional plotting
Calling Sequence
plot3d(expr, x=a..b, y=c..d)
plot3d(F, a..b, c..d)
plot3d([exprF, exprG, exprH], s=a..b, t=c..d)
plot3d([F, G, H], a..b, c..d)
  
```





26 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.”



27 Version 11.0 (February 21, 2007)

links

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

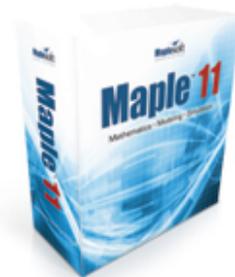
<https://maplesoft.com/support/help/Maple/view.aspx?path=updates%2fMaple11%2findex> Maple 11 New Features.

<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 ”



28 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:

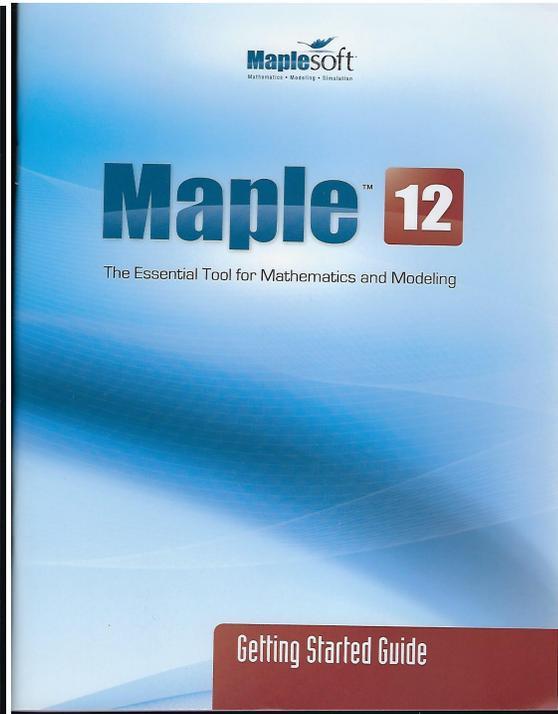
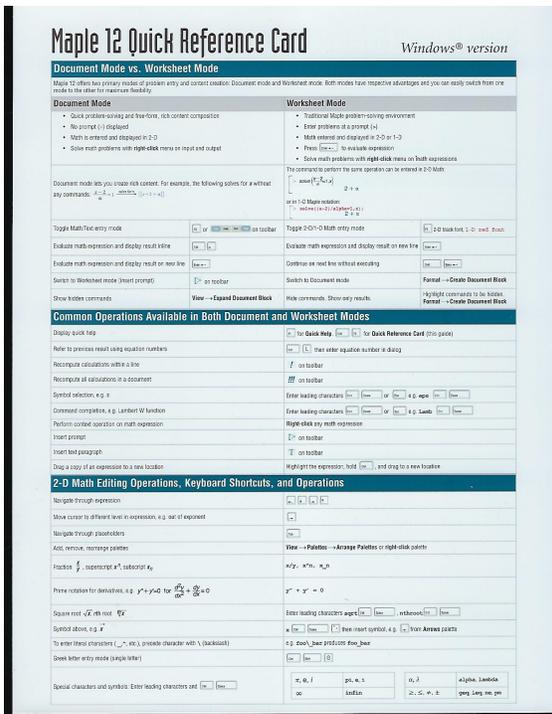
- Embedded interactive dials, gauges and buttons
- Exploration Assistant
- Plotting Enhancements
- Code Edit Regions
- Control Systems Design Tools
- Enhanced differential equation solving
- Wavelets
- CAD Connectivity
- MATLAB to Maple Code Translation
- Code Generation ”

“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. ”



29 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> 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](#)

30 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](#)

31 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/products/maple/new_features/Maple15/ Another another 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.”

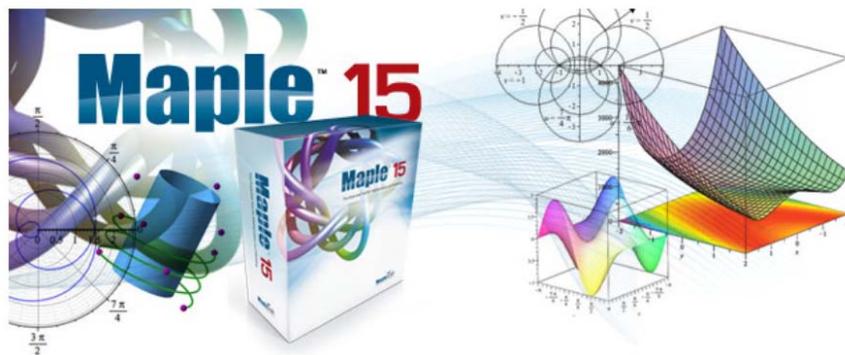
“Key new and improved features in Maple 15:

- 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 ”



31.1 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 ”

32 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://www.maplesoft.com/products/maple/new_features/Maple16/ Another another What's New in Maple 16.

<https://de.maplesoft.com/support/help/maple/view.aspx?path=updates/Maple16/objects> 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.

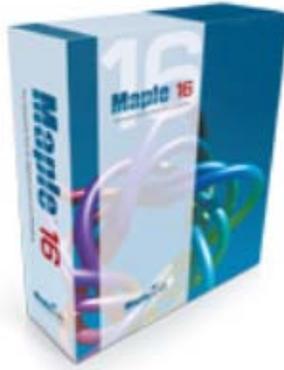
<https://www.digitalengineering247.com/article/pick-of-the-week-maplesoft-releases-maple-16> post at digitalengineering site.

[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”



32.1 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 ”

33 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/ Another another What's 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. ”



34 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/products/maple/new_features/Maple18/ Another another 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 Mathematica.

<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

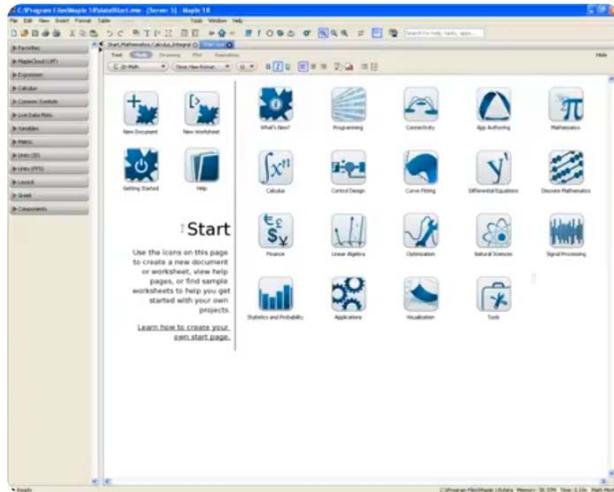
”

“ - 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! ”



34.1 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 ”

34.2 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 ”

35 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/support/help/Maple/view.aspx?path=updates/Maple2015/index> Index of New Commands and Packages in Maple 2015.

https://www.maplesoft.com/products/maple/new_features/Maple2015/ What's New 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 Mathematica.

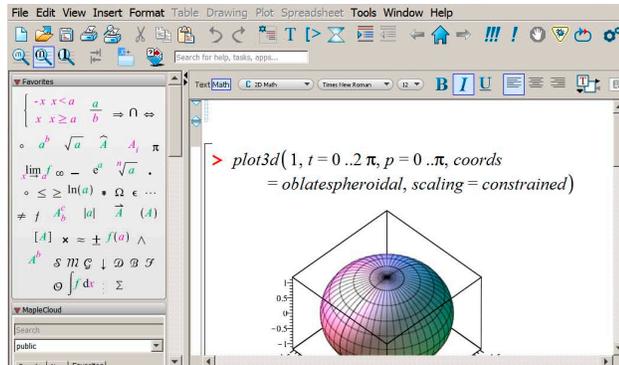
notes

“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
- Interactive Components
- Iterative Maps
- Ordinals
- One-Step App Creation ”



35.1 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 ”

35.2 Version 2015.1a (?)

[links](#)

https://www.maplesoft.com/support/downloads/m2015_1update.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 ”

35.3 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 ”

35.4 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.”

36 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/products/maple/new_features/Maple2016/ 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

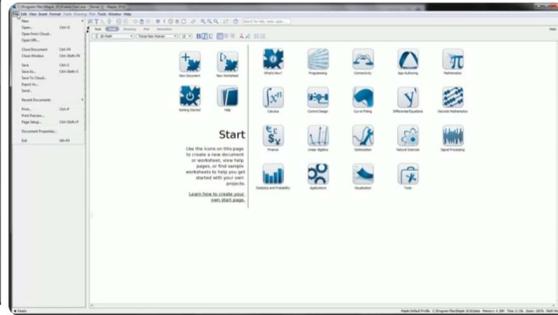
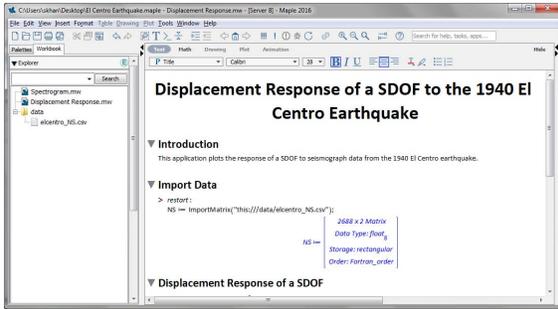
Maplesoft today announced a major new release of its flagship product, Maple, the mathematical software that makes it extremely easy to analyze, explore, visualize, and solve math problems.

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”



New and Updated Packages Include:

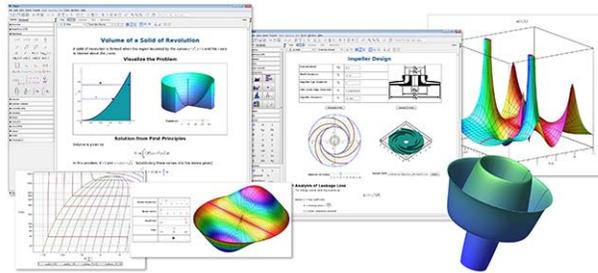
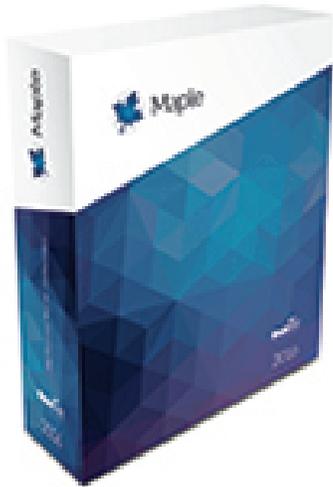
NumberTheory	GraphTheory
Iterator	Logic
ProgramAnalysis	Statistics
	Student
	and more...

plot
create a two-dimensional plot

Calling Sequence	Examples
Parameters	Details
Description	Compatibility

Calling Sequence
`plot(f, x)`
`plot(f, x=x0..x1)`
`plot(v1, v2)`

Parameters
f - expression in independent variable **x**
x - independent variable



Untitled (2)* - [Server 3] - Maple 2016

File Edit View Insert Format Table Drawing Plot Tools Window Help

Search for help, tasks, apps... Alt+S

Palettes | Workbook

Start.mw x Untitled (2) x

Text Math Drawing Plot Animation

Line Printed Output Courier New 12 B I U

```

157     liml := `limit/topright`(lexpr);
158     if liml <> FAIL then
159         t := traperror(testeq(limr,liml));
160         if t = true or limr = liml then
161             if length(liml) < length(limr) then
162                 limr := liml
163             end if;
164             r := limr
165         elif t = false then
166             r := undefined
167         elif t = FAIL then
168             if not has([subs(infinity = dummy,limr)/dummy, subs(infinity = dummy,liml)
169 /dummy],dummy) then
170                 t := traperror(csgn(0,subs(infinity = 1,limr)-subs(infinity = 1,liml),0))
171             else
172                 t := traperror(csgn(0,38-liml,0))
173             end if;
174         if t = 0 then
175             if length(liml) < length(limr) then
176                 limr := liml
177             end if;
178             r := limr

```

36.1 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”

36.2 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 \int symbol with implicit multiplication
”

36.3 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.”

37 Version 2017 (May 25, 2017)

links

<https://www.maplesoft.com/support/help/category.aspx?cid=1465> Maple 2017 Category Documents.

https://www.maplesoft.com/products/maple/new_features/Maple2017/ What’s New in Maple 2017.

<https://www.maplesoft.com/support/help/Maple/view.aspx?path=updates/v2017> Another 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

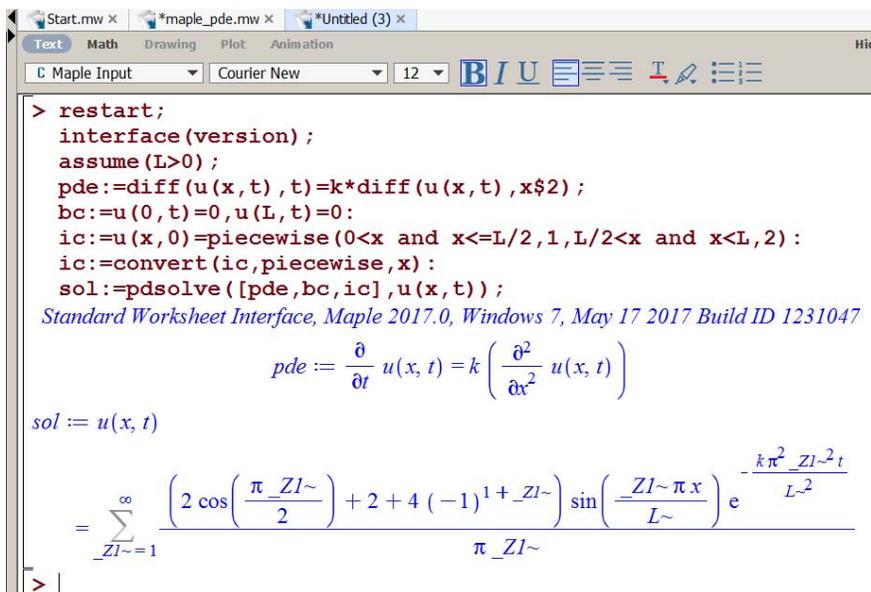
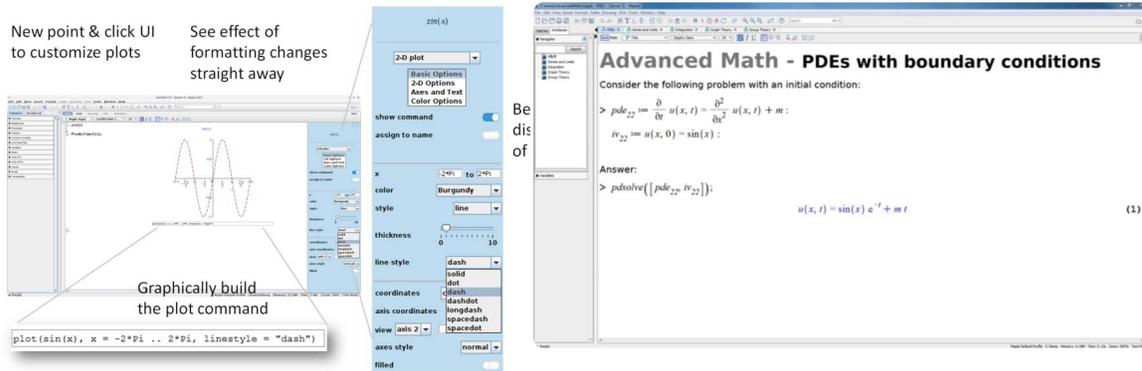
“Waterloo, Canada; May 25, 2017: Maplesoft today announced a major new release of its flagship product, Maple, the mathematical software that makes it extremely easy to analyze, explore, visualize, and solve math problems.

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.”



37.1 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”

37.2 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”

37.3 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”

38 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/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”



38.1 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.

notes

- “ - 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.”

38.2 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.

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”

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

38.3 Version 2018.2.1 (early 2019)

links

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

notes

“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 notermenate error message
- Improves Japanese palette translations”

39 Version 2019 (March 14, 2019)

links

<https://www.maplesoft.com/company/news/releases/2019/2019-03-14-Maple2019-Release.aspx> Release notes.

<https://www.mapleprimes.com/maplesoftblog/210286-Announcing-Maple-2019> Post at Mapleprimes.

https://www.maplesoft.com/products/maple/new_features/Maple2019/ What’s New in Maple 2019

https://www.maplesoft.com/products/maple/new_features/Maple2019/Physics.aspx What’s New in Maple 2019, Physics specific.

<https://www.maplesoft.com/support/help/maple/view.aspx?path=updates/Maple2019/index> Index of New Commands and packages in Maple 2019.

<https://www.maplesoft.com/support/help/maple/view.aspx?path=updates/v2019> What's New in Maple 2019

<https://www.youtube.com/watch?v=VsdRv66j8n4> You tube Introducing Maple 2019 for Education and Research.

notes

“Key new and improved features in Maple 2019:

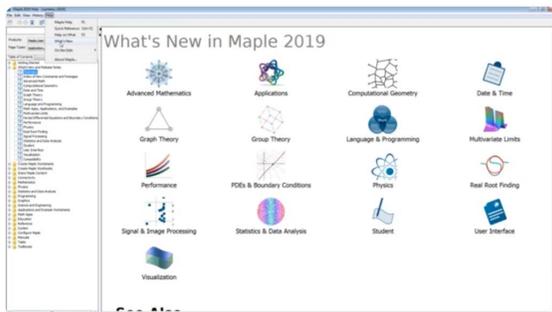
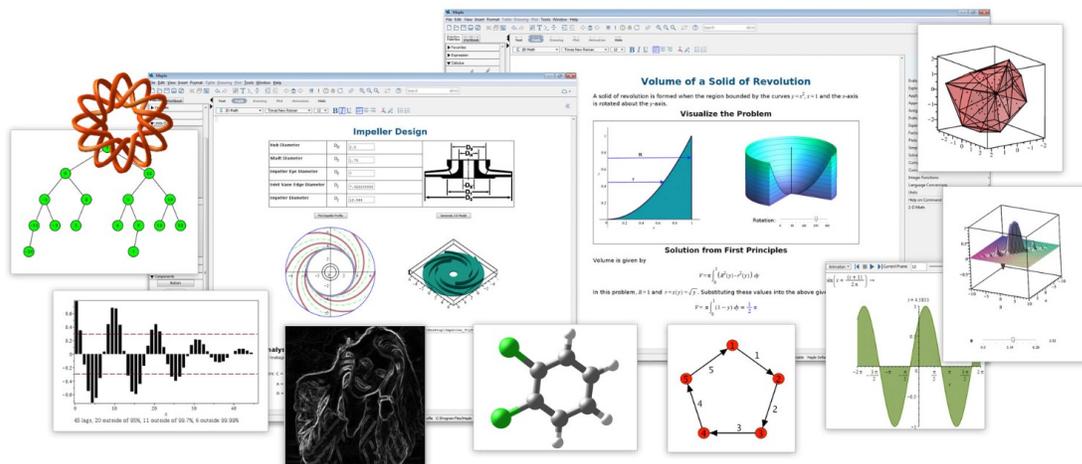
- Core Mathematics
- PDEs
- Tensors
- Group Theory
- Math Apps for Computer Science
- Experience on Start-up
- Quantum Chemistry (add-on toolbox)”

“Waterloo, Canada; Mar. 14, 2019: 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 2019 includes substantial improvements to its mathematical engine, for both core routines and specialized tools. The release also provides advances to the Maple programming language, more education tools, new visualizations, and other improvements for the mathematicians, educators, students, engineers, and scientists who use Maple.”

“Improvements include:

Hundreds of improvements to core functionality, such as solving equations, integration, factoring, and differential equations Increasing the already sizable advantage Maple has in finding symbolic solutions to partial differential equations, including new methods that solve new classes of problems, more flexibility in choosing the methods to try, and improved simplification of the results Significant work to further strengthen, consolidate, and polish Maples support for tensor computations, making Maple unmatched in the field, with support for classical and quantum mechanics, special and general relativity, and standard tensor notation for input and output More group theory tools for constructing, computing with, and visualizing even more groups, along with significant performance improvements More signal processing, including new algorithms, manipulation tools, and visualization techniques”



39.1 Version 2019.1 (May 2019)

links

https://de.maplesoft.com/support/downloads/m2019_1update.aspx?bt9pgkkPP=MbulbTq&L=G
Release notes.

notes

- The mathematics engine, including LPSolve, sum, statistics, and the Physics package
- Visualization, including annotations and the Plot Builder
- Export to PDF (related to freezing on export) and LaTeX (related to exporting output)
- ExcelTools import
- Network licensing
- Typesetting mathematical expressions
- MATLAB connectivity, including improvements when calling Maple from MATLAB and support for MATLAB 2019a
- MapleCloud on Mac
- Worksheetdir and currentdir on restart
- Support for MapleSim 2019 ”

39.2 Version 2019.2 (November 12, 2019)

[links](#)

https://de.maplesoft.com/support/downloads/m2019_2update.aspx Release notes.

[notes](#)

“ - New "Go to Page " option in Print Preview

- Sections are now expanded by default when printing or exporting a document
- Support for macOS Catalina (10.15)
- Corrections to various problems, including:
 - Using non-executable math in document mode, where it sometimes became impossible to advance to a new line using Enter
 - Opening and saving .maple workbooks on some platforms
 - Applying numeric formatting to some quantities involving units
 - Several improvements to VectorCalculus
 - Improvements to select(), abs(), DeepLearning:-Classify, currentdir(), and others
 - Errors using Maplet-based interactive assistants in non-English environments
 - Difficulties recognizing certain license files on Windows relying on DISK_SERIAL_NUM
- Updated versions of supporting libraries: Python 3.7.4, ICU 64.2, curl 7.66.0, boot 1.71, Microsoft Visual Studio redistributable 2019
- Updated Japanese translations
- Support for MapleSim 2019.2 ”

39.3 Version 2019.2.1 (November 27, 2019)

[links](#)

https://de.maplesoft.com/support/downloads/m2019_2_1update.aspx Release notes.

<https://www.mapleprimes.com/maplesoftblog/211565-Maple-201921-Now-Available> Maple primes post.

[notes](#)

“Maple 2019.2.1 is a maintenance update to Maple 2019.

This update fixes the following problems:

- Maple failed to run the code in the maple.ini/.mapleinit initialization files when loading existing worksheets containing a restart() command - Installing some packages from the MapleCloud was unsuccessful ”

40 Version 2020 (March 12, 2020)

links

<https://www.maplesoft.com/company/news/releases/2020/2020-03-12-Maple2020-Release.aspx>
Release notes.

<https://www.mapleprimes.com/maplesoftblog/212086-Maple-2020-Has-Launched> Mapleprimes post.

https://www.maplesoft.com/products/maple/new_features/Maple2020/ What is new in Maple 2020.

https://www.maplesoft.com/products/maple/new_features/Maple2020/physics.aspx What is new in Maple 2020, Physics specific.

<https://www.youtube.com/watch?v=9u0Sz4c5XA0> Youtube. Introducing Maple 2020: Something for Everyone.

<https://www.youtube.com/watch?v=mb50YjsQzXo> Youtube. Maple Fundamentals Guide for Maple 2020.

notes

“Key new and improved features in Maple 2020:

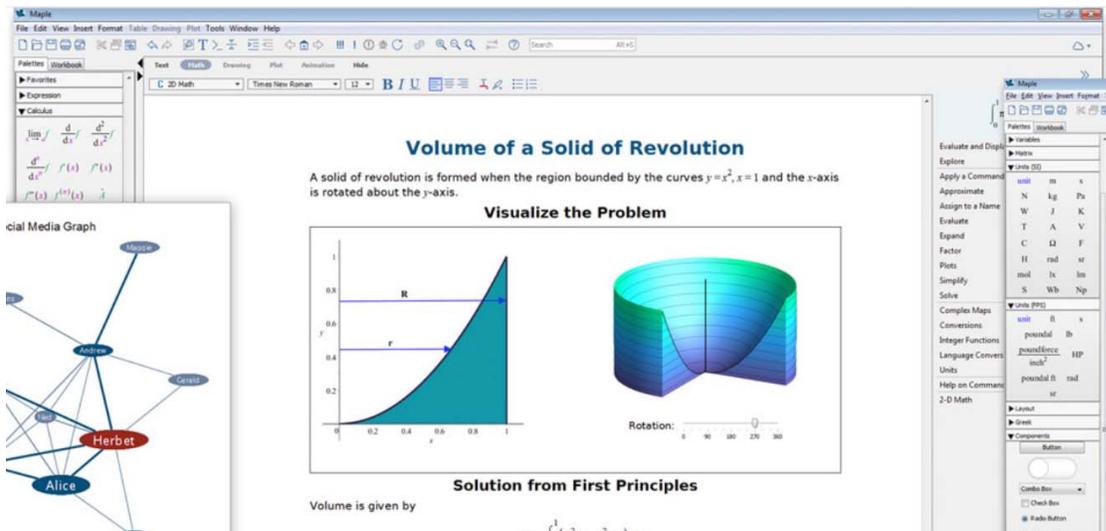
- ODEs/PDEs
 - Graph Theory
 - Improved experience for new users
 - Tools for teaching and learning linear algebra
 - Signal processing
 - Programming tools
- Printing and exporting ”

“Waterloo, Canada; Mar. 12, 2020: Maplesoft today announced a major new release of its flagship product, Maple, the powerful and easy to use mathematical software. Maple is used by mathematicians, educators, students, engineers, and scientists to analyze, explore, visualize, and solve math problems.

The new release, Maple 2020, offers a vast collection of enhancements for both long-time customers and those who are using Maple for the very first time.”

“ - Greater problem solving abilities, with new algorithms and solving techniques in differential equations, calculus, abstract algebra, integral transforms, graph theory, physics, and other areas of math, science, and engineering, expanding the scope and types of problems Maple can solve.

- Enhanced programming tools that help users find and fix problems in their own code.
- Additional clickable math tools, improved tutors, and an expanded Student package designed to support teaching and learning linear algebra.
- Enhanced signal processing abilities for the exploration of signals of all types, including data, image, and audio processing.
- More flexibility and improved output for printing, export to PDF, and LaTeX export, making content easier to share and use outside of Maple. ”



40.1 Version 2020.1 (June 15, 2020)

links

https://de.maplesoft.com/support/downloads/m2020_1update.aspx?L=G release notes.

<https://mapleprimes.com/posts/212667-Maple-20201-Update> Mapleprimes post.

notes

“Maple 2020.1 is a maintenance update to Maple 2020. It contains a variety of corrections and improvements to Maple 2020, in a variety of areas, including:

- Support for Ubuntu 20.04 LTS (Focal Fossa)
- Connectivity to MATLAB 2020a
- Fixed an issue where opening certain Maple documents could cause Maple to launch with a blank screen
- Fixed an problem where lists could sometimes appear as sets
- Improved activation window text for high resolution monitors
- Corrections to PDF export
- Fixed an issue with SMTLIB on Windows
- Improvements to the Integration Methods Tutor
- Improvements to various math and language routines, including the DEtools package, lastexception, evalhf, VectorCalculus[int]
- Russian language support
- Support for MapleSim 2020 ”

40.2 Version 2020.1.1 (August 26,2020)

links

https://de.maplesoft.com/support/downloads/m2020_1update.aspx?L=G release notes.

<https://mapleprimes.com/posts/213126-Maple-202011-Update> Mapleprimes post.

notes

“Maple 2020.1.1 is a maintenance update to Maple 2020. It includes the following improvements:

- Correction to a problem that occurred when printing or exporting documents to PDF. If the document included a 3-D plot, nearby text was sometimes missing from the printed/exported document.
- Correction to an issue that prevented users from installing between-release updates to the Physics package ”

40.3 Version 2020.2 (November 17, 2020)

links

https://de.maplesoft.com/support/downloads/m2020_2update.aspx release notes.

<https://mapleprimes.com/posts/213654-Maple-And-MapleSim-20202> post at Mapleprimes.

notes

“Maple 2020.2 is a maintenance update to Maple 2020. It contains a variety of corrections and improvements to Maple 2020, in a variety of areas, including:

- Support for macOS 11.0 (Big Sur)
- Connectivity to MATLAB 2020b
- Fixed an issue for users on Turkish operating systems where assigning a variable prevented the worksheet from executing
- Corrections to PDF export and printing of plots and plot components
- Fixed an issue when using relative paths in hyperlinks
- Updates and improvements to the Physics package
- Support for MapleSim 2020.2 ”

“Maple 2020.2 includes corrections and improvements to printing and export to PDF, support for macOS 11.0, more MATLAB connectivity, resolves issues with the installation of the Maplesoft Physics Updates, and more.”

41 Version 2021 (March 10, 2021)

links

Release notes

<https://www.mapleprimes.com/maplesoftblog/214351-Unveiling-Maple-2021> Mapleprimes post.

https://www.maplesoft.com/products/maple/new_features/Maple2021/PDFs/ODEsandPDEs.pdf ODE/PDE changes.

https://www.maplesoft.com/products/maple/new_features/Maple2021/PDFs/Physics.pdf Physics changes.

https://www.maplesoft.com/products/maple/new_features/maple2021/index.aspx What's New in Maple 2021

https://www.youtube.com/watch?v=fp5Ky_wHi_4 You tube. Introducing Maple 2021 for Education and Research.

<https://www.youtube.com/watch?v=C6bU9V2xpnQ> You tube. Introducing Maple 2021 for Industry.

https://www.youtube.com/watch?v=ys_TRRkIdBM You tube. Maple 2021 Gems You May Have Missed.

<https://www.youtube.com/watch?v=PZr0Waa031M> You tube. Maple Conference 2021.

<https://www.youtube.com/watch?v=qseRrDWFiwY> You tube. Gerhard J. What's new in Maple 2021.

notes

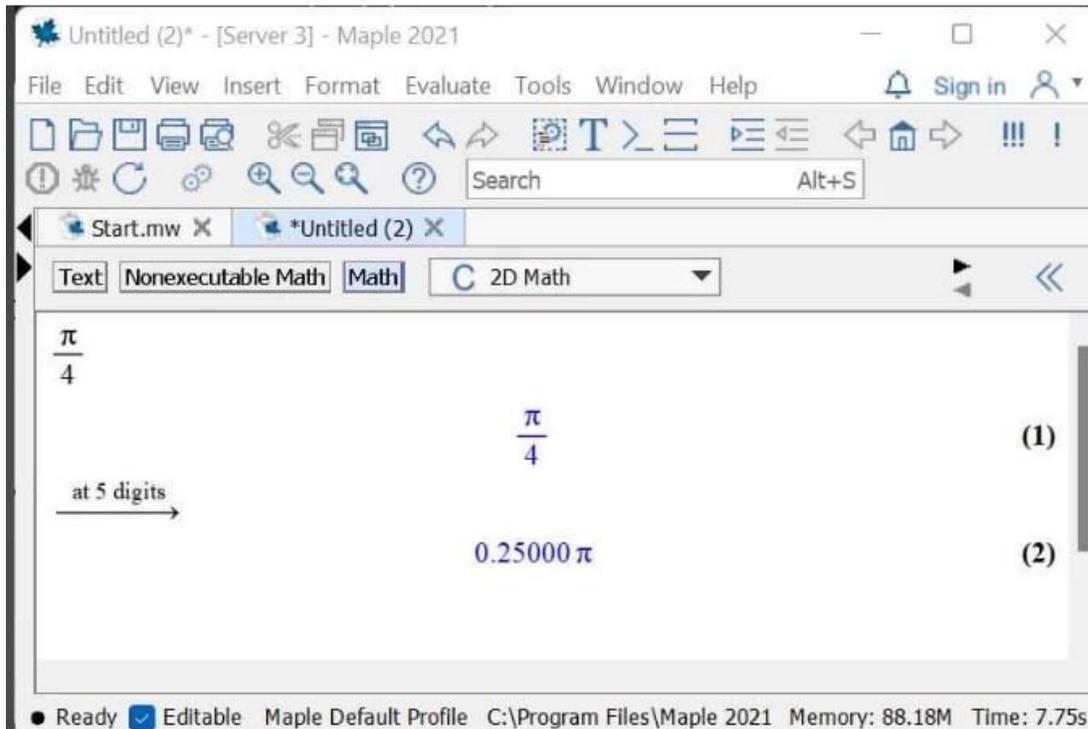
“Waterloo, Canada; Mar 10, 2021: Maplesoft today announced a major new release of its flagship product, Maple, the powerful and easy to use mathematical software.

Maple is used by mathematicians, educators, students, engineers, and scientists to analyze, explore, visualize, and solve math problems.

The new release, Maple 2021, offers a range of enhancements across the entire product, from small productivity changes to new areas of mathematics.”

“Key new and improved features in Maple 2021:

- Mathematics engine.
- Streamlined workflow in Document Mode.
- Study guides for Calculus, Precalculus, Multivariate Calculus.
- Student ODE package.
- Tools for developing Maple Learn content.
- Signal Processing.
- Export to LaTeX”



41.1 Version 2021.1 (May 27, 2021)

links

<https://www.mapleprimes.com/maplesoftblog/214857-Maple-20211-Update> Mapleprimes post

https://www.maplesoft.com/support/downloads/m2021_1update.aspx Release notes

notes

“Maple 2021.1 is a maintenance update to Maple 2021. It contains a variety of corrections and improvements to Maple 2021, in a variety of areas, including:

- Improvements to plotting, including correcting a problem where the plotting toolbar sometimes did not appear
- Improvements to LaTeX and PDF export, including fixing a problem where plot annotations moved or disappeared on PDF export
- Fixed problems related to saving and deleting folders from workbooks
- Added new options to split and join Document blocks
- Restored the Handwriting Recognition Palette
- Changed the location for storing backup files to the users home folder
- Enhancements to step-by-step and full solutions
- Fixes to text boxes and math entry components
- Improvements to the context panel
- Fix to problem in Graph Theory that could cause Maple to crash
- Updates to help pages, including improvements to the Physics package documentation
- Corrected problem with ThermophysicalData:-Atmosphere
- Support for MapleSim 2021 and Maple Flow 2021.1 ”

41.2 Version 2021.2 (Nov 14, 2021)

[links](#)

https://www.maplesoft.com/support/downloads/m2021_2update.aspx Release notes

[notes](#)

“Maple 2021.2 is a maintenance update to Maple 2021. It contains a variety of corrections and improvements to Maple 2021, including:

- Corrected an issue that sometimes caused Maple to hang when dragging a document onto the Maple window
 - Fixed a plotting problem that was preventing legends and background images to be displayed on the same plot
 - Improved the Notification system so that it always recognizes if you are already logged in to MapleCloud
 - Ensured more robust start-up behavior on Windows 10
 - Corrected problems with setting up a C++ compiler on Windows due to a missing .ini file
 - Fixed an issue with creating a help database when the users file path includes special characters
 - Improved image selection when setting up a Shortcut component
 - Improved the behavior when using performing context menu operations on values with units while in Document mode
 - Fixed a problem with using the combine command on double summations
 - Enhanced the Physics package
 - Updated the curl library to version 7.78.0.0
 - Updated Java from version 15.0.1 to Java 17.0.0
 - Support for MapleSim 2021.2 and Maple Flow 2021.2
- ”

41.3 Version 2021.2.1 (Feb 9, 2022)

[links](#)

<https://www.mapleprimes.com/posts/216745-Critical-Fix-For-Maplesoft-Products-On-MacOS>
Maple primes post.

https://www.maplesoft.com/support/downloads/m2021_2_1update.aspx Release notes

[notes](#)

“Maple 2021.2.1 is a maintenance update to Maple 2021 available for macOS.

This release fixes a serious problem that some users were experiencing with doubled characters appearing when using the shift key. ”

“We have just issued a critical fix to Maple, MapleSim, and Maple Flow running on macOS.

We have heard from some users who were experiencing serious problems with doubled characters while using Maplesoft products on macOS”

42 Version 2022 (March 15, 2022)

links

Release notes

<https://www.mapleprimes.com/maplesoftblog/217039-Unboxing-Maple-2022> Mapleprimes post.

<https://www.youtube.com/watch?v=Fxip1hkciE> Youtube. Should You Upgrade to Maple 2022.

https://www.youtube.com/watch?v=aZ0seY_ms7M Youtube. Introducing Maple 2022 for Education and Research

<https://www.youtube.com/watch?v=bMP5PS3S7YQ> Youtube. Introducing Maple 2022 for Industry

https://www.maplesoft.com/products/maple/new_features/maple2022/index.aspx What's New in Maple 2022

<https://www.mapleprimes.com/posts/217066-The-Standard-Model-Of-Particle-Physics> The Standard Model of Particle Physics in Maple 2022.

<https://maplesoft.com/downloads/selectplatform.aspx?hash=61ab59890f2313b2241fde3423fd975e> Download Maple 2022

notes

“Highlights of Maple 2022

- The enhanced math engine provides new problem solving power and increased performance, with improvements in integration, differential equations, formal power series, physics, and more
- New plotting algorithms include automatic detection of discontinuities, improved zoom, and enhanced appearance, all while maintaining high levels of performance
- An improved workflow simplifies preparation of documents for printing and PDF export
- The Plot Builder assistant is even easier to use, and supports the creation and customization of even more visualizations using only the mouse
- New signal processing tools let engineers create, combine, and analyze signals in more ways, more efficiently

“Key new and improved features in Maple 2022:

- Mathematics engine
- Print layout mode
- Plotting and Plot Builder
- Step-by-step solutions
- Signal Processing
- Jupyter connectivity
- Tools for creating and sharing content ”

“Hidden among the novelties of Maple 2022, a breakthrough in computer algebra is the introduction, for the first time, of a representation for the whole Standard Model. This representation is fully computable, including the accessory commands to calculate related scattering amplitudes”

File Edit View Insert Format Evaluate Tools Window Help

Search Alt+S

Text Nonexecutable Math Math C 2D Input Calibri 12 B I U

Type	Circuit Tolerance Analysis						
	Extreme Voltage (V)	At Parameter Values					
		R1 (Ω)	R2 (Ω)	R3 (Ω)	R4 (Ω)	R5 (Ω)	R7 (Ω)
Minimum	0.77	10.20	1.530	19600.00	1.530	980.00	.98
Maximum	0.83	9.80	1.470	20400.00	1.470	1020.00	1.02

► Worst Case Circuit Analysis with Monte-Carlo Simulation

▼ Statistical Analysis

Hence the minimum and maximum voltages are:

> `min(v5_mc); max(v5_mc)`

0.727593019835887

0.862989341375894 (3.4.1)

> `Statistics-Histogram(v5_mc)`

42.1 Version 2022.1 (June 1, 2022)

links

https://www.maplesoft.com/support/downloads/m2022_1update.aspx Release notes.

<https://www.mapleprimes.com/posts/217618-Maple-20221-Update> Maple primes post.

notes

“Maple 2022.1 is a maintenance update to Maple 2022. It contains corrections and improvements to Maple 2022 in a variety of areas, including:

- Enhancements to the Plot Builder interactive assistant
- Improvements to the new Print Layout mode

- Improvements to the Student ODE package and Student context menus
- Tasks can now be easily deleted from the Task Palette (also known as the Snippets Palette) simply by right clicking on the button
- Enhancements to the Physics:-StandardModel package, including a new Lagrangian command
- Fixed an issue where certain 3-D plots could cause a crash on Ubuntu
- Fixed a font anti-aliasing issue with PDF exports
- Corrected problems with the Units:-Simple package
- Improvements to limit, evala, factor, asympt, and other mathematical operations
- Support for MapleSim 2022 ”

42.2 Version 2022.2 (October 2022)

[links](#)

https://www.maplesoft.com/support/downloads/m2022_2update.aspx Release notes.

[notes](#)

“Maple 2022.2 is a maintenance update to Maple 2022. It contains corrections and improvements to Maple 2022 in a variety of areas, including:

- Improved performance when saving large worksheets that use standard math notation in input
- Corrected a problem with programmatic updates to radio button components
- Enhancements to the Physics package
- Improvements to the math engine, including in GraphTheory, GroupTheory, simplify, and evaluation of integral expressions at a point
- Help page improvements for DeepLearning
- Improved the ThermophysicalData package by updating the underlying database to CoolProp v6.4.1
- Updated the Java platform to OpenJDK 18
- General engine improvements by updating to more recent versions of various supporting libraries:
 - curl 7.85.0
 - libxml2 2.10.2
 - libxslt and libexslt 1.1.37
 - sqlite 3.39.3
 - zlib 1.2.12
- Support for MapleSim 2022.2 ”

43 Version 2023 (March 09, 2023)

[links](#)

release notes

https://www.maplesoft.com/products/maple/new_features/maple2023/index.aspx What’s New in Maple 2023.

<https://www.mapleprimes.com/maplesoftblog/220225-Maple-2023-Is-Here> Mapleprimes post.

<https://www.youtube.com/watch?v=caaTkYaCGd0> Youtube. Introducing Maple 2023 for Education and Research

<https://www.youtube.com/watch?v=aOK5eqkGbHc> Youtube. Introducing Maple 2023 for Industry.

<https://www.youtube.com/watch?v=EQTFYptgTp0> Youtube. A Sneak Peek at Maple 2023 for Education and Research.

<http://www.wikicfp.com/cfp/servlet/event.showcfp?eventid=175005> Maple 2023 : Maple Conference 2023 site.

<https://www.maplesoft.com/mapleconference/2023/full-program.aspx#schedule> The 2023 Maple Conference Proceedings

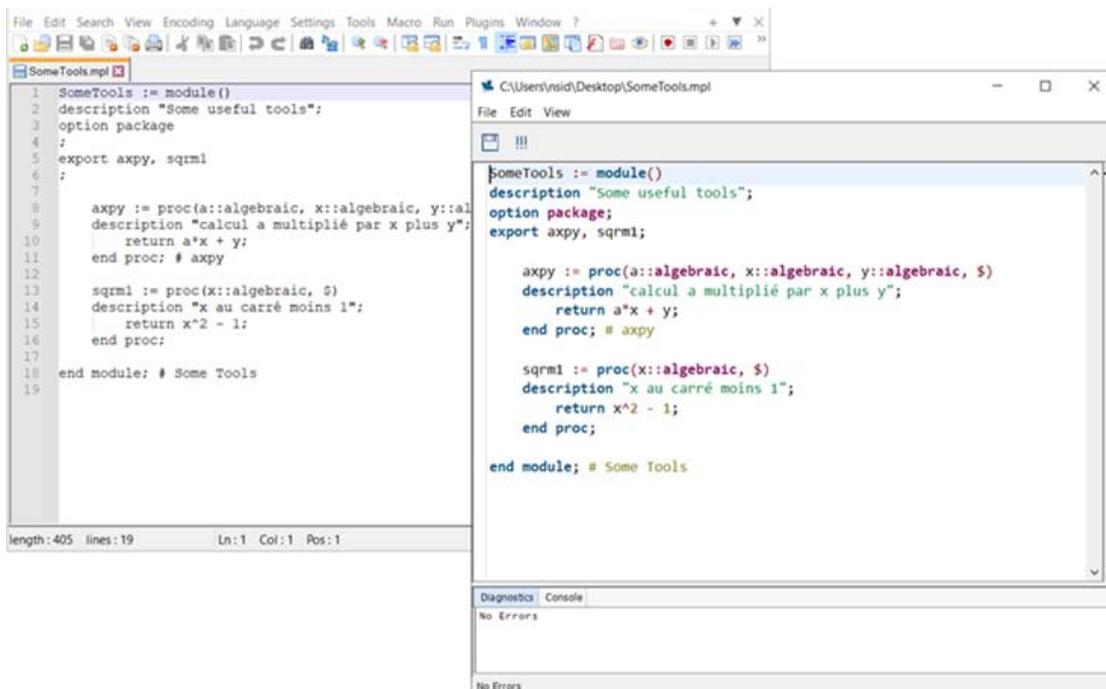
notes

“Waterloo, Canada; Mar. 9, 2023: Maplesoft today announced a new release of the Maplesoft Mathematics Suite, a collection of software solutions that assist educators in helping their students understand and succeed in math and courses that rely on math.

The Suite includes Maple 2023, the newest release of the powerful and easy to use mathematical software used by mathematicians, educators, students, engineers, and scientists to analyze, explore, visualize, and solve math problems.”

“Key new and improved features in Maple 2023:

- Mathematics engine
- Plot Builder
- Help system interface
- Tools and resources for educators
- Coding tools
- OpenMaple API for Python
- Tools for creating and sharing content ”



43.1 Version 2023.1 (July 12, 2023)

links

https://www.maplesoft.com/support/downloads/m2023_1update.aspx release notes

<https://www.mapleprimes.com/maplesoftblog/221661-Maple-And-MapleSim-20231-Updates>
Mapleprimes post.

notes

“Maple 2023.1 is a maintenance update to Maple 2023. It contains corrections and improvements to Maple 2023 in a variety of areas, including:

- Improvements to the Plot Builder interactive assistant
- Corrected an issue with the import of Excel files
- Fixes some issues related to exports when the Color Bar option is used
- Improvements to the math engine, including to Quantifier Elimination and Group Theory
- Improved performance after a period of inactivity
- General engine improvements by updating to more recent versions of various supporting libraries:
 - curl 8.0.1
 - libxml2 2.10.3
 - zlib 1.2.13
- Updates to the Physics package
- Support for MapleSim 2023.1 ”

43.2 Version 2023.2 (November 1, 2023)

links

https://www.maplesoft.com/support/downloads/m2023_2update.aspx release notes

<https://www.mapleprimes.com/maplesoftblog/223158-Maple-And-MapleSim-20232-Updates>
Mapleprimes post.

notes

“Maple 2023.2 is a maintenance update to Maple 2023. It contains corrections and improvements to Maple 2023 in a variety of areas, including:

- Added strikethrough to the of available character styles
- Added new unit system: InchPoundSecond (IPS)
- Improved behavior when editing or deleting subscripts
- Fixed "match whole word only" feature of find/replace
- Improved mouse selection of piecewise functions and the contents vectors/matrices
- Introduced a client-side timeout feature when connected to a network license server
- Updates to Physics package
- Support for MapleSim 2023.2 ”

“This update also include a fix to the problem with setoptions3d”

43.3 Version 2023.2.1 (unknown. May be early 2024)

[links](#)

https://www.maplesoft.com/support/downloads/m2023_2_1update.aspx release notes

[notes](#)

“Maple 2023.2.1 is a maintenance update to Maple 2023. It contains:

- A correction to a problem that was causing "Kernel connection has been lost" errors for some users
- A fix for a problem with entering the } symbol from some international keyboards ”

44 Version 2024 (Mar. 6, 2024)

[links](#)

release notes

https://www.maplesoft.com/products/maple/new_features/maple2024/index.aspx What's New in Maple 2024

<https://www.mapleprimes.com/maplesoftblog/224789-Discover-Whats-New-In-Maple-2024> Mapleprimes post.

https://www.youtube.com/watch?v=sNKVz7um_8E Youtube, Introducing Maple 2024 for Education and Research

<https://www.youtube.com/watch?v=hJVcK1MLRAs> Youtube. A Sneak Peek at Maple 2024 for Education and Research

<https://www.youtube.com/watch?v=QW6k5cAZ4C0> Youtube. Introducing Maple 2024 for Industry

https://www.youtube.com/watch?v=a2k4_DZqz-I Youtube. A Sneak Peek at Maple 2024 for Industry

<https://www.youtube.com/watch?v=XUA1z2okhAs> Youtube. Maple Conference 2024. Your Code Doesn't Work Now What?

<https://www.youtube.com/watch?v=2Tp1KoJ0DiU> Youtube. Maple Conference 2024. Going beyond plot and plot3d

<https://www.youtube.com/watch?v=T7pLwBuiDRI> Youtube. Maple Conference 2024. The Power of Structured Types

<https://www.youtube.com/watch?v=F1qHDVsn2K0> Youtube. Maple Conference 2024. Gems You May Have Missed

https://www.youtube.com/watch?v=kTMtBqZ5_Ec Youtube. Maple Conference 2024. Making Numeric Computations Faster

<https://www.youtube.com/watch?v=Xr1Rs0GND50> Youtube. Maple Conference 2024. News from the Maple Transactions Journal

<https://www.youtube.com/watch?v=3wIu0ysx4mY> Youtube. Maple Conference 2024. Applications of Maple

<https://www.youtube.com/watch?v=6rPmoKFoSDk> Youtube. Maple Conference 2024. Algorithms and Software 1

<https://www.youtube.com/watch?v=m1DndbYx6jg> Youtube. Maple Conference 2024. Algorithms and Software 2

<https://www.youtube.com/watch?v=66Xnq41BQPM> Youtube. Maple Conference 2024. Algorithms and Software 3

<https://www.youtube.com/watch?v=iw72L-uIW6I> Youtube. Maple Conference 2024. Using Maple with Jupyter and Python

<https://www.youtube.com/watch?v=Rs2Q7gP1Ppc> Youtube. Maple Conference 2024. Applications of Maple and Maple in Education

notes

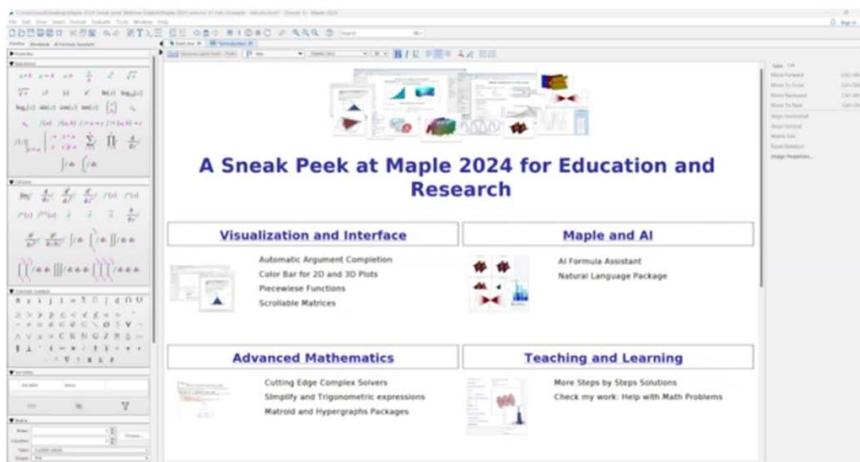
“Waterloo, Canada; Mar. 6, 2024: Maplesoft today announced a major new release of its flagship product, Maple, the powerful and easy to use mathematical software. Maple is used by mathematicians, educators, students, engineers, and scientists to analyze, explore, visualize, and solve math problems.

The new release, Maple 2024, leverages powerful AI technology to help customers be more efficient, in addition to a range of improvements that expand problem solving capabilities, enhance usability, and increase support for teaching and learning.”

“Key new and improved features in Maple 2024:

- Mathematics engine
- AI tools
- Command completion
- Tools and resources for educators
- Visualization
- Tools for creating and sharing content
- Units”

“There is a large number of adjustments (700) in the Physics package of Maple 2024, and several new developments (e.g. DiracConjugate).”



44.1 Version 2024.1 (July 2024)

[links](#)

https://www.maplesoft.com/support/downloads/m2024_1update.aspx Release notes

“Maple 2024.1 is a maintenance update to Maple 2024. It contains corrections and improvements to Maple 2024 in a variety of areas, including:

- Improvements to Argument Completion and Command Completion features
- Improvements to Scrollable Matrices
- Improvement to DocumentTools:-Canvas package
- Corrections to math typesetting when working in Jupyter
- Corrections to PDF export and printing
- Updates to the Physics package
- Various small corrections throughout the math engine, in simplify, ODESteps, radnormal, sum, Taylor, asympt, and others
- Support for MapleSim 2024.1”

44.2 Version 2024.2 (October 31, 2024)

[links](#)

https://www.maplesoft.com/support/downloads/m2024_2update.aspx Release notes

<https://www.mapleprimes.com/posts/227614-Maple-And-MapleSim-20242-Updates> Mapleprimes post.

[notes](#)

“Maple 2024.2 is a maintenance update to Maple 2024. It contains corrections and improvements to Maple 2024 in a variety of areas, including:

- Added ability to tear away tabs into new windows
- Added new functionality for the Embedded Components list editor
- Updates to the icons in the Component palette
- Improvements to Scrollable Matrices
- Corrections to PDF export and printing
- Updates to the Physics package
- Various small corrections throughout the math engine, in simplify, limit, sum, and others
- Support for MapleSim 2024.2”

“his update also include a fix to the problem with the simplify extension mechanism”

45 Version 2025 (Mar. 6, 2024)

links

<https://www.maplesoft.com/support/help/category.aspx?cid=37> Category Documents Maple 2025

<https://www.mapleprimes.com/maplesoftblog/229451-Announcing-Maple-2025> Mapleprimes post.

<https://www.maplesoft.com/support/help/maple/view.aspx?path=updates/v2025> What's New in Maple 2025

<https://www.maplesoft.com/support/help/maple/view.aspx?path=updates/Maple2025/index> Index of New Commands and Packages in Maple 2025

<https://www.maplesoft.com/support/help/maple/view.aspx?path=updates/Maple2025/compatibility> Compatibility Issues in Maple 2025

<https://www.mapleprimes.com/posts/229488-What-Is-New-In-Physics-In-Maple-2025> What is new in Physics in Maple 2025

<https://www.mapleprimes.com/posts/229552-The-2025-Maplesoft-Physics-Updates-And-Its-Future> The 2025 Maplesoft Physics Updates and its future

<https://www.maplesoft.com/mapleconference/2025/> Maple Conference 2025 presentations.

<https://www.youtube.com/watch?v=6rUoa0GHV6w> Youtube. Introducing Maple 2025 for Education and Research

<https://www.youtube.com/watch?v=1BfCcQaLg5o> Youtube. Introducing the New Interface in Maple 2025

<https://www.youtube.com/watch?v=E5Xzt1LnXFY> Youtube. Introducing Maple 2025 for Industry

<https://www.youtube.com/watch?v=wx6U0RcNqDk> Youtube. Maple Conference 2025. Numeric Differential Equations.

https://www.youtube.com/watch?v=0_w1HkBfcvQ Youtube. Maple Conference 2025. Maple 2025 Gems You May Have Missed.

<https://www.youtube.com/watch?v=fJlDjoZJoeQ> Youtube. Maple Conference 2025. Maple in Education

<https://www.youtube.com/watch?v=mtz89cj4xro> Youtube. Maple Conference 2025. Visualization: Going Beyond Plot and Plot3d

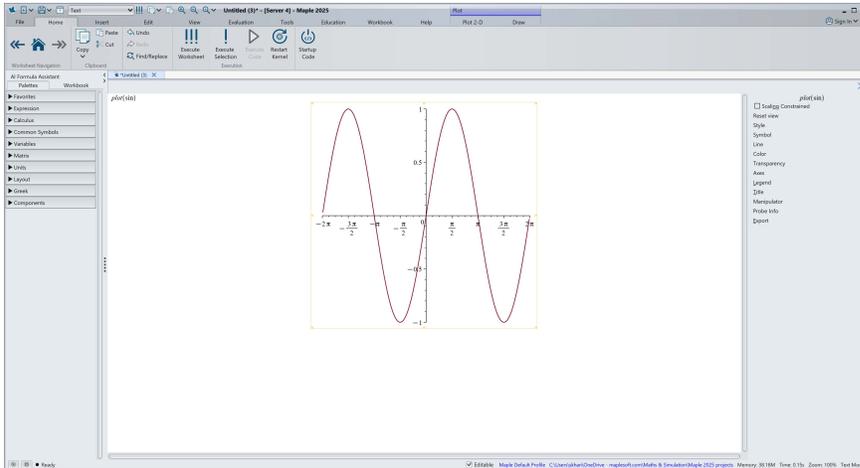
<https://www.youtube.com/watch?v=5jT8o5g0zcg> Youtube. What's New in Maple 2025: GUI and Editing.

notes

“Key new and improved features in Maple 2025:

- Mathematics engine
- User interface
- Equation editing
- Tools and resources for educators
- Connectivity tools
- Tools for comparing large expressions”

“It'll be difficult for anyone to miss this - Maple 2025 has a new interface!”



45.1 Version 2025.1 (June 23, 2025)

links

https://www.maplesoft.com/support/downloads/m2025_1update.aspx download page

<https://www.mapleprimes.com/posts/231504-Update-To-Maple-2025-And-Announcing-MapleSim-2025> Mapleprimes post

notes

“Maple 2025.1 is a maintenance update to Maple 2025. It contains corrections and improvements to Maple 2025 in a variety of areas, including:

- Added Open File options to the Quick Access Toolbar
- Moved Plot Animation functionality from the Context Bar to the Ribbon Interface
- Added support for additional file types (LaTeX, HTML, RTF, TXT) in the Export As menu
- Removed gray background color from embedded components where appropriate
- Added missing borders to Code Edit Regions inserted into worksheets
- Included Japanese translations for the user interface and new help pages
- Various small corrections throughout the math engine, help pages, and interface
- Added support for MapleSim 2025.1”

“In particular, please note that this update includes a fix to the problem where new documents were opening in a new window instead of a new tab.”

45.2 Version 2025.2 (November 13, 2025)

links

<https://www.mapleprimes.com/posts/233618-Maple-And-MapleSim-20252-Updates> Mapleprimes post

https://www.maplesoft.com/support/downloads/m2025_2update.aspx download page.

notes

“Maple 2025.2 is a maintenance update to Maple 2025. It contains corrections and improvements to Maple 2025 in a variety of areas, including:

- Fixed an issue with Print Layout mode on Windows
- Made improvements to scrollable table output when printing
- Fixed an issue where Show Command button vanished in the Plot Builder
- Fixed issue where the Alt-key was not displaying the tooltip for the keyboard shortcuts
- Update zlib to v1.3.1
- Added support for MapleSim 2025.2 ”

46 Reference

- <https://www.maplesoft.com/products/maple/history/> Maple Product History.
- <https://www.maplesoft.com/support/downloads/index.aspx> Maplesoft site to download software.
- <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://www.maplesoft.com/products/maple/features/physicsresearch.aspx> Maple Physics: Research and Development.
- [https://en.wikipedia.org/wiki/Maple_\(software\)](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.
- <https://www.scg.uwaterloo.ca/history.shtml> History of Maple Computer Algebra Software page at UWaterloo.
- <https://history.siam.org/oralhistories/gonnet.htm> By Gaston Gonnet. About history of Maple.
- Some images for old Maple versions are thanks to MapleTech magazine, different issues.
- Google AI answers.
- Paper A Survey of User Interfaces for Computer Algebra Systems. J. Symbolic Computation (1998) 25, 127-159. by NORBERT KAJLER AND NEIL SOIFFER.
- The Maple book. By FRANK GARVAN.

- <https://mapletransactions.org/index.php/maple/article/view/18269> A Short History of Maple Through a Biography of Stefan Vorkoetter
- Original 1983 paper in PDF THE DESIGN OF MAPLE: A COMPACT, PORTABLE, AND POWERFUL COMPUTER ALGEBRA SYSTEM. By Bruce W. Char Keith O. Geddes W. Morven Gentleman Gaston H. Gonnet.
- Maple V review. An Article written by Olivier Jeannet and taken from Amiga News - December 1994. https://www.youtube.com/watch?v=ZMzq6E_Wiis youtube video Maple V: The Future of Mathematics by John May.