# Comparison of Ease-of-Use Features in Mathematica 14.2 and Maple 2025

#### Summary

Ensuring ease of operation is particularly important for a system as vast as Mathematica. A steady focus on automation and good user-interface design has meant that Mathematica has become progressively easier to use even as its computational capabilities have grown.

Maplesoft claims that Maple is easier to use than Mathematica, but a systematic cataloging of ease-of-use features shows that Maple supports almost none of the tools, hints or good design principles that are built into Mathematica.

#### Code editing

Mathematica	Details	Maple
AI–powered code writing	Use an AI–based chat to help you write code by describing the task in words.	Maple provides a preview version of
	<ul> <li>plot the moving average of the differences between the first 1000 primes with a window size of 50 grid lines to the plot.</li> </ul>	an AI tool that has no access to live tools.
	<pre>Here's how you can do it: primesList = Table[Prime[n], {n, 1, 1000}]; differences = Differences[primesList]; movingAverage = MovingAverage[differences, 50]; ListPlot[movingAverage, GridLines → Automatic, PlotTheme → "Detailed"]</pre>	10015.
	We first generate a list of the first 1000 primes using Table and Prime. Then we calculate the differences between consecutive primes using Differences. Next, we compute the moving average these differences using MovingAverage. Finally, we plot these moving averages using ListPlot and grid lines to the plot using GridLines → Automatic. We also set the PlotTheme to "Detailed" finiter appearance.	1
	<pre>In[20]:= primesList = Table[Prime[n], {n, 1, 1000}]; differences = Differences[primesList]; movingAverage = MovingAverage[differences, 50]; ListPlot[movingAverage, GridLines → Automatic, PlotTheme → "Detailed"]</pre>	
	0ut[23]=	
	The assistant has live access to Wolfram Alpha data and the Wolfram	
	Language documentation and can evaluate code. It maintains the	
	context of an ongoing conversation together with the other contents of your open notebooks.	

Mathematica	Details	Maple
AI–powered code feedback	Click the AI feedback icon next to the input and output, and the AI assistant will provide feedback on your code, taking into account the context of preceding calculations.	
	It looks like the Wolfram Language function you're trying to use is not correctly       It looks like the Wolfram Language function you're trying to use is not correctly         it capitalized. The function for plotting is Plot, not plot. Also, the argument x in       It looks the argument x in         Sin (x) should be written as Sin [x] in Wolfram Language. Here is the correct syntax:       It looks the argument x in	×
	Plot[Sin[x], {x, 0, 10}]         Please try again using this corrected form.	
AI–powered content suggestions	Use an AI–based tool to complete or suggest code or narrative based on the context around the current location in your notebook.	A preview version of similar functionality is available.
Autocompletion: function names	Type the start, middle or abbreviation of a command, and Mathematica automatically provides completion choices. Just press return to save typing the rest.	Maple returns onl matches that star with the given characters.
	Leas       LeastSquares       LeastSquaresFilterKernel	
Autocompletion: command templates	Mouse over a command or use a keystroke after typing a command, and you are offered standard usage templates. Select one by mouse or keyboard and then tab between the arguments as you fill them in.	Maple provides templates only via keyboard access.
	generates a plot of $f$ as a function of $x$ from $x_{min}$ to $x_{max}$ . <b>Plot</b> [ { $f_1, f_2,$ }, { $x, x_{min}, x_{max}$ }] plots several functions $f_i$ .	
	Plot [ {, w [f <sub>i</sub> ], },]         plots f <sub>i</sub> with features defined by the symbolic wrapper w.         Plot [, {x} ∈ reg]         takes the variable x to be in the geometric region reg.	

Mathematica	Details			Maple
Autocompletion:	Start typing a s	string in a place w	vhere there are finite choices, and	
strings	Mathematica w	vill offer you auto	ocompletions.	
	CountryData	"UnitedStates	, "	
		" <u>U</u> nitedKingdo	DM."	
		" <u>U</u> kraine"		
		" <u>U</u> nitedArabEn	nirates"	
		" <u>U</u> ruguay"		
		*		
Autocompletion:	Some autocom	pletions, such a	s styles, fonts and colors, are show	n
iconic preview		•	what the effect of the choice will b	
		-		
	Style["Hel	lo", FontFami	ly ->	
			1942 report	
			Abadi MT Condensed Extra Bold	
			Abadi MT Condensed Light	
			Al Bayan	
			Al Nile	
				× –
			*	
	ListLinePlot	{1, 2, 3}, Plot	Theme ->	
	histhineriot	[[1, 1, 5], 100	"Web"	
			· · · · ·	
			"Minimal"	
			"Detailed"	
			"Business"	
Autocompletion: path	Start typing a f	ilo name and Ma	"Marketing" athematica helps you navigate your	file Provided only in
browser	system.	ne name, and Ma	athematica helps you havigate you	code-edit regions,
				not in Worksheets.
	Get["/Applica	tions/M		
		Mail.ap	>	
		Maps.apj		
			tica 10.2.app	
		Mathemat		
		File Brows		
		File brows	×	

Symbol highlighting	<pre>Click a symbol in a block of code and all other occurrences are immediately highlighted. Module[[g1, emb, grp], g1 = RandomGraph[{10, 30}]; emb = GraphEmbedding[g1]; grp = GatherBy[emb, Last]; emb = ReplaceAll[emb, Catenate[Catenate[Map[If[Length[#] == 1, Thread[# → #], Thread[ # → (# - {{0, 0}, {0, 2.5})]] &amp;, Partition[SortBy[#, First], UpTo[2]]]] &amp;/@ grp]]; Graph[g1, VertexCoordinates → emb] ]</pre>	×
Inline evaluation	You can evaluate part of an input expression in place to simplify your input without having to do a side calculation. $data = \{1, 2+3+4+5, 6\} \rightarrow data = \{1, 14, 6\}$	×
Generalized input	You can use any formatted content in Mathematica input, not just typeset math or text. Input can include images, 3D images, geometry, graphs, color swatches and more. Code is easier to write and easier to read. EdgeDetect [ ListPlot[{1, 2, 3}, PlotStyle → ]]	×
Iconized input	You can collapse large input into an icon that makes your notebooks easier to read while still saving all data in the same file. Use the icon as input, or expand it to see the contents. data = ((a) Experimental data : SmoothHistogram3D[data] 0.10 0.05 0.00 -2 0 -2 0 -2	×

Mathematica	Details				Maple
Code reformatting	<pre>readable. f[x_]:=If  f[x_] :=     If[x =</pre>	[x≤1,x,If	F[EvenQ[x], x/2,3	on to make your code more	×
Extend selection			expression or use a mathematically val	keyboard shortcut to lid way.	
	$1 + \sqrt{2 + \frac{3}{44}}$	_			×
Custom notations	You can created or output.	te your owr	1 2D mathematical t	ypeset notations for input	×
Edit during evaluation		-	n continue to edit the ing performed.	e working document while	×
Customizable input aliases	frequently. T appear on th	hese can in e autocom predefined	sert text, typeset ma pletion prompts. Ma	tent that you type or insert ath or images. Aliases also thematica comes with a aple, type "del" and the	×

·	1	
Mathematica	Details	Maple
IDE support	As well as the Wolfram Notebook interface, plugins are available to use	Maple can be used
	other IDEs including Visual Studio Code, IntelliJ, Eclipse, Jupyter and	from Eclipse and
	others.	Jupyter

### **Error detection**

Mathematica	Details	Maple
Syntax coloring: bracket matching	Mismatched brackets are automatically colored to highlight the error.	×
	Sin[x + Cos[x]]	
Syntax coloring: missing arguments	Functions that require more arguments than you have provided are highlighted with a marker.	×
	Mod [3_]	
Syntax coloring: excess arguments	If you enter too many arguments for a function, Mathematica highlights the excess arguments.	×
Syntax coloring: undefined symbols	Undefined symbols (usually because you have misremembered or misspelled a function name) are automatically colored blue. Plott[Sin[x], {x, 0, 10}]	×
Syntax coloring: unrecognized options	Mathematica automatically highlights option names that do not apply where you have entered them. <b>Plot</b> [Sin[x], {x, 0, 10}, <b>PlotArea</b> $\rightarrow$ 100]	×
Syntax coloring: scoping conflicts	<pre>If you try to localize the same variable name twice, Mathematica highlights it to warn you. With[{local = 1}, With[{local = 2}, local]</pre>	Parsing errors are reported in a dialog for code–edit regions only.
Syntax coloring: code comments	Comments are automatically colored gray so that they are easily distinguished from code. <b>x</b> = <b>2</b> ; (*Comment*)	×
Syntax coloring: string content		×
Syntax coloring: current function	The start and end of the function immediately surrounding the cursor are highlighted automatically so that you can more clearly see where you are in complex nested expressions. <b>Sin[x + Cos[x + 1] + Sin[x] +</b> ]	×

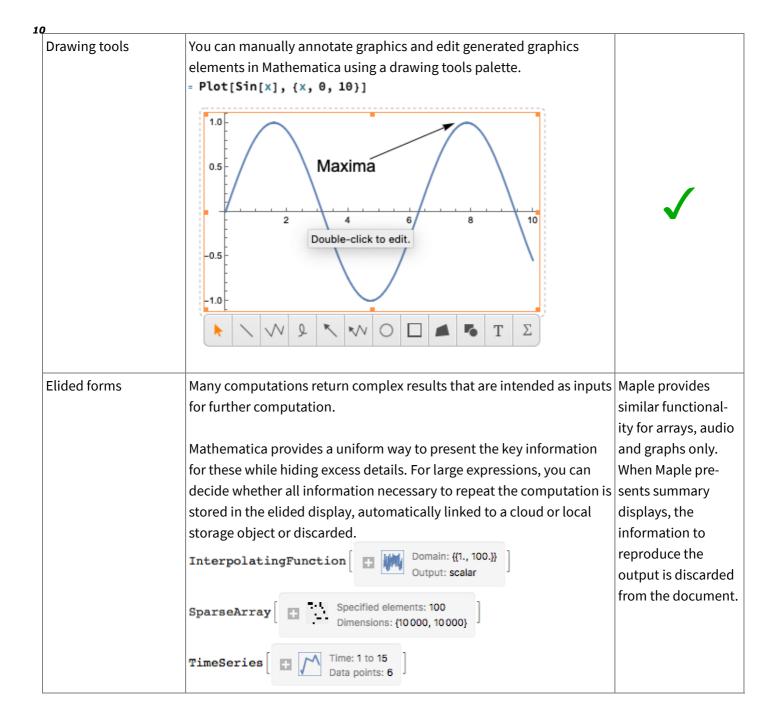
Syntax coloring: symbol uses	Click a symbol, and all other occurre automatically.	ences in the input are highlighted	
		<pre>ead[# → (# - {{0, 0}, {0, 2.5}}) First], UpTo[2]]]] &amp; /@grp]]</pre>	
Document and expression diffs	See the differences between two rev two similar expressions with a choic 1edit, 1 insertion First My document Some old text Some unchanged text		
Number formatting	Mathematica automatically displays spacing between digit blocks to ma <b>1 234 567 890</b>	-	×
Real–time spellchecking	Mathematica automatically underlin you have typed them. Reall time spell, checking spells spells spell I speadwall pellmell Pell Ignore Ignore all Add to dictionary	nes misspelled words as soon as	In Maple, you must manually invoke spellchecking.
Visual hinting of computation dependency	Both Mathematica's and Maple's int where outputs are displayed alongs without reevaluating it so the outpu warns you by automatically fading t	ide inputs. If you edit the input It no longer matches, Mathematica	×

8		
Code analysis	Select code in the notebook and Mathematica will potential errors. In some cases it will offer to corre automatically.	
	<pre>f[x_] := Module[{x2}, x + x1]</pre>	not auto-
	Code Analysis	© correction.
	<pre>f[x_] := Module[{ x2} , x + x1]</pre>	
	• Unused Module variable >	
	Showing 1 of 1 Issue.	pply Edits 🖌
Error source feedback	Error messages in Mathematica are accompanied I button that displays information on the computation to the error. In[76]:= customfunction[1] Out[76]= $\underbrace{In[76]:= customfunction[1]}_{encountered.}$ Stack Trace Message [Power::infy, $\frac{1}{0}$ ] $\underbrace{In[76]:= customfunction[1]}_{encountered.}$	-

## Interacting with output

Mathematica	Details	Maple
Previous result reference: temporal	Use the symbol % to refer to the last answer produced. Use %% to refer to the result two calculations ago and so on, or % <i>n</i> for the <i>n</i> <sup>th</sup> result in the session.	
	In[1]:= <b>2 + 2</b> Out[1]= <b>4</b>	
	In[2]:= % + 1 Out[2]= 5	

Previous result reference: spatial	Reference previous calculations by notebook position rather than order of creation, so that changes in value in future evaluations are respected, but changes in evaluation order do not cause failure.	
	In[1]:= <b>2 + 2</b> Out[1]= <b>4</b>	×
	In[2]:= <b>% + 1</b>	
	Out[2]= 5	
Image editor	Click any image in Mathematica, and a toolbar automatically appears providing point–and–click tools for selecting regions, cropping, transforming, masking, image information and more.	
	14     □     •<	×
Image editor 3D	Click a 3D image (voxel data), and a toolbar appears providing point- and-click tools for coloring, clipping, information and more.	Maple does not support 3D images.
Color swatches	Colors appear as visual swatches. Mouse over them for numeric specification, or click them to interact with the values. In(5)= Blend[{Darker[Red], Lighter[Blue]}, 0.8] Med Med Med Med Med Med Med Med	×



Mathematica	Details	Maple
Large–output suppression	When any very large expression is returned to the notebook, Mathematica automatically presents a compact view that displays the start and end of the expression and an indication of the amount of omitted content. The following example would take around 300 pages 	×
Tooltips in graphics	Mathematica graphics incorporate tooltips to provide extra informa- tion without increasing the complexity of the image. For example, mouse over a box in a box–whisker plot, and you get statistics on that dataset.	×
Context–sensitive menus	The menu that appears when you right–click content depends on the type of content selected.	

#### Automation & convenience

Mathematica	Details	Maple
Predefined document	Mathematica provides over 20 document stylesheets that collect	Maple provides
styles	together coherent style choices for title, section, text, math, etc. to let	only one stylesheet,
	you create a great–looking document quickly. You can also create your	though you can
	own stylesheet.	create your own.

Mathematica	Details					Maple
Predefined graphics styles	Mathematica provides a collection of predefined styles as an alternative to setting all of the different options separately. Row[Plot[Evaluate[Table[BesselJ[n, x], {n, 5}]], {x, 0, 10}, PlotTheme $\rightarrow \#$ ] & /@ {"Detailed", "Web", "Monochrome"}] $\int_{-0.2}^{0.4} \int_{-0.2}^{0.4} \int_{-3(x)}^{0.4} \int_{-3(x)}^{0.4} \int_{-3(x)}^{0.4} \int_{-0.2}^{0.4} \int_{-0.2}^{$				×	
Predefined color schemes				er 170 named co st visualizations	{×, θ, 8}, {y, θ, 8},	ctions
Automatic hyperlinking	Mathematica automatically converts URLs in text into active hyperlinks.				×	
Automatic reference tracking	Mathematica provides counter objects that track the position of themselves or other content in the notebook to display correct numbering. Objects include Chapter, Section, Subsection, PageNumber and more.				Maple supports only for Equations and Tables.	
Automatic code formatting	Mathematica can automatically reformat code using additional line breaks and white space to indent code for easy reading. You can control the balance between code density and "airiness."					
Alternate language cells	Ruby or Wolfrar	r Node.j n Langu	is code cells Jage repres ect * fro	s. Results are au	on, SQL, Julia, R, Octar tomatically converted	
TeX input		Enter TeX directly into notebooks, and it is formatted immediately using the Wolfram Notebook typesetting.				ely You must use code to import T <sub>E</sub> X into Maple.
Plotting: automatic range selection	Mathematica plots can automatically choose their plot ranges to ensure that the majority of the plot yields useful information.					
Plotting: automatic resampling	Mathematica adaptively increases sampling in 2D and 3D plots in area of high curvature to give accurate yet efficient visualizations.				n areas Maple supports th in 2D only	

Mathematica	Details	Maple
Plotting: automatic branch–cut detection	Mathematica automatically detects discontinuities in many plots to accurately depict the break.	Maple provides this functionality only for 2D plots.
Plotting: automatic point sizing	By default, Mathematica automatically makes some features, such as points, smaller if there are many of them in a single visualization.	×
Plotting: automatic point label positioning	<pre>optimizing their locations to avoid overlap. ListPlot[{{0.1, 0.1}, Callout[{2, 1.1}, "Largest"], Callout[{2.1, 1}, "Fairly large"]}]  12 Largest 10 Fairly large 0.8 0.6 0.4 0.2</pre>	×
Automatic import filters	Mathematica supports over 250 different import and export filters for data, images, sound, video, graphs, geometry and more.	Maple supports 56 formats.
Progress monitoring	Some slow operations, such as training neural networks, provide progress indicators and estimates of completion time. = NetTrain[NetModel["LeNet"], "MNIST"] Training Progress 9% (round 1/10, batch 807/938) 807/9380 batches, 51 648/600 320 examples Total Time 47s elapsed, 8m23s left, 960 examples/s ADAM optimizer, batch size 64, CPU learning rate 0.00 current round loss 0.09 - error 2.34% - loss	×

Mathematica	Details	Maple
Parallel evaluation progress tracking	When performing parallel computations over multiple cores or remote computers, you can see the progress made and the projected comple- tion time. In[1]= ParallelMap[PrimeQ[2^#-1] &, Range[9601, 12 000]]; During evaluation of In[1]= ParallelMap Results 27/56 evaluations of 43 items each (8 kernels) Times Elapsed: 00m 42s, remaining: 00m 34s, ETA: Mon 22 Nov 2021 09:38:15	×
Remote batch submission	Once set up with account credentials, Mathematica automates the process of submitting batch evaluations in cloud environments such as Amazon and Azure. Cloud computers are provisioned and provided with Mathematica licenses: tasks are scheduled, results retrieved and instances deleted all with a single command. <pre>with get = job = RemoteBatchSubmit[</pre>	×

## Help

Mathematica	Details	Maple
Evaluatable help	Mathematica help contains over 10,000 examples. The help also acts as a sandbox where you can edit and experiment with the examples in situ, without changing them permanently.	×
Suggestion Bar	Mathematica automatically suggests calculations you may wish to perform next after each calculation. Just click to perform the action. You can even roll together several steps to automatically write pro- grams. Out[12]= {0.470063, 0.150947, 0.43559, 0.805856, 0.312563, 0.482064, 0.663087, 0.507534, 0.609561, 0.271254} total plot points relation histogram sort more @ # F	$\checkmark$
Mouseover help box	<pre>Mouse over a command in Mathematica and see a tooltip reminding you what the function does and its typical arguments. Solve[x<sup>2</sup> == y Solve[expr, vars]     attempts to solve the system expr of equations or inequalities for     the variables vars. Solve[expr, vars, dom]     solves over the domain dom. Common choices of dom are     Reals, Integers, and Complexes.</pre>	×

Mathematica	Details	Maple
Help on errors	When an error is generated, it includes a hyperlink to documentation	
·		
	on the error, including example causes.	
	In[43]:= 1 / 0	
	Power::infy : Infinite expression $\frac{1}{0}$ encountered. $\gg$	
	🕒 🖷 💼 🔯 Generalbinfy - Welfram Mathematica 10.3	
	< > ref/message/General/infy Q	
	Wolfram Language           wourpawn Language           Wourpawn Language	
	General::infy	×
	▶ Details	
	v Examples (2)	
	<ul> <li>Basic Examples (2)</li> <li>Explicit division by zero will generate a warning message:</li> </ul>	
	In[1]:= 1/0	
	Powen:infy: infinite expression $\frac{1}{0}$ encountered. >> >>	
	Out[1]= ComplexInfinity	
	Division by zero often occurs indirectly within another calculation:	
	$ln(1) = rindRoot[Sin[x] / x = 1/2, \{x, 0\}]$	
	Powertinfy: Infinite expression - one countered. >>	
	wcindet: indeterminate expression 0. Complexinfinity encountered. >> FindRootcminum: The function value (indeterminate) is not a list of numbers with dimensions (1) at (x) = (0,>	
	$Out(1) = FindRoot\left(\frac{Bin(x)}{x} = \frac{1}{2}, (x, 0)\right)$	
	notebook. Mathematica displays information in an expandable form that organizes basic definitions, options and attributes with links to the full documentation.	
	?Plot	
	Plot Symbol	
	Symbol	✓
	Symbol       Image: The state of the state	✓
	Symbol       Image: The state is a plot of f as a function of x from $x_{min}$ to $x_{max}$ .         Plot[ $f_1, f_2,, f_i, \{x, x_{min}, x_{max}\}$ ] plots several functions $f_i$ .	~
	Symbol $Plot[f, \{x, x_{min}, x_{max}\}]$ generates a plot of $f$ as a function of $x$ from $x_{min}$ to $x_{max}$ . $Plot[\{f_1, f_2,\}, \{x, x_{min}, x_{max}\}]$ plots several functions $f_i$ . $Plot[\{, w[f_i],\},]$ plots $f_i$ with features defined by the symbolic wrapper $w$ .	
	Symbol       Image: The state is a plot of f as a function of x from $x_{min}$ to $x_{max}$ .         Plot[ $f_1, f_2,, f_i, \{x, x_{min}, x_{max}\}$ ] plots several functions $f_i$ .	
	Symbol $Plot[f, \{x, x_{min}, x_{max}\}]$ generates a plot of $f$ as a function of $x$ from $x_{min}$ to $x_{max}$ . $Plot[\{f_1, f_2,\}, \{x, x_{min}, x_{max}\}]$ plots several functions $f_i$ . $Plot[\{, w[f_i],\},]$ plots $f_i$ with features defined by the symbolic wrapper $w$ . $Plot[, \{x\} \in reg]$ takes the variable $x$ to be in the geometric region $reg$ .	
	Symbol       Image: The symbol         Plot[f, {x, x_min, x_max}] generates a plot of f as a function of x from x_min to x_max.         Plot[{f1, f2,}, {x, x_min, x_max}] plots several functions fi.         Plot[{, w[fi],},] plots fi with features defined by the symbolic wrapper w.         Plot[, {x} ∈ reg] takes the variable x to be in the geometric region reg.         Documentation Local »   Web »	
	Symbol       Image: The symbol         Plot[ $f_i$ , { $x_i, x_{min}, x_{max}$ }] generates a plot of $f$ as a function of $x$ from $x_{min}$ to $x_{max}$ .         Plot[ $\{f_1, f_2,\}_i$ , { $x_i, x_{min}, x_{max}$ }] plots several functions $f_i$ .         Plot[ $\{, w[f_i],\}_i$ ,] plots $f_i$ with features defined by the symbolic wrapper $w$ .         Plot[ $\dots, \{x\} \in reg$ ] takes the variable $x$ to be in the geometric region $reg$ .         Documentation Local >   Web >         Options > AlignmentPoint $\rightarrow$ Center(63 total)	
Natural language	Symbol       Image: The symbol         Plot[f, {x, x_min, x_max}] generates a plot of f as a function of x from x_min to x_max.         Plot[{f1, f2,}, {x, x_min, x_max}] plots several functions fi.         Plot[{, w[fi],},] plots fi with features defined by the symbolic wrapper w.         Plot[, {x} ∈ reg] takes the variable x to be in the geometric region reg.         Documentation Local »   Web »	
00	Symbol       Image: Type a short English phrase and have Wolfram Alpha translate it into a	
00	Symbol       ⑦         Plot[f, {x, xmin, xmax}] generates a plot of f as a function of x from xmin to xmax.         Plot[{f1, f2,}, {x, xmin, xmax}] plots several functions fi.         Plot[{, w[f1],},] plots f1 with features defined by the symbolic wrapper w.         Plot[, {x} ∈ reg] takes the variable x to be in the geometric region reg.         Documentation Local »   Web »         Options > AlignmentPoint → Center(63 total)         Type a short English phrase and have Wolfram Alpha translate it into a Wolfram Language expression.	
00	Symbol       Image: Type a short English phrase and have Wolfram Alpha translate it into a	
00	Symbol       ⑦         Plot[f, {x, xmin, xmax}] generates a plot of f as a function of x from xmin to xmax.         Plot[{f1, f2,}, {x, xmin, xmax}] plots several functions fi.         Plot[{, w[f1],},] plots f1 with features defined by the symbolic wrapper w.         Plot[, {x} ∈ reg] takes the variable x to be in the geometric region reg.         Documentation Local »   Web »         Options > AlignmentPoint → Center(63 total)         Type a short English phrase and have Wolfram Alpha translate it into a Wolfram Language expression.	
00	Symbol       ⑦         Plot[f, {x, x <sub>min</sub> , x <sub>max</sub> }] generates a plot of f as a function of x from x <sub>min</sub> to x <sub>max</sub> .         Plot[{f1, f2,}, {x, x <sub>min</sub> , x <sub>max</sub> }] plots several functions fi.         Plot[{f1, f2,}, {x, x <sub>min</sub> , x <sub>max</sub> }] plots several functions fi.         Plot[{, w[f1],},] plots fi with features defined by the symbolic wrapper w.         Plot[, {x} ∈ reg] takes the variable x to be in the geometric region reg.         Documentation Local »   Web »         Options > AlignmentPoint → Center(63 total)         Type a short English phrase and have Wolfram Alpha translate it into a Wolfram Language expression.         []       100 random numbers from 1 to 10         []       RandomReal [ {1, 10 }, 100 ]	✓ ×
Natural language input	Symbol       ⑦         Plot[f, {x, xmin, xmax}] generates a plot of f as a function of x from xmin to xmax.         Plot[f, {x, xmin, xmax}] plots several functions fi.         Plot[{f_1, f_2,}, {x, xmin, xmax}] plots several functions fi.         Plot[{, w[f_i],},] plots fi with features defined by the symbolic wrapper w.         Plot[, x] \u03c6 reg] takes the variable x to be in the geometric region reg.         Documentation Local >   Web >         Options > AlignmentPoint → Center (63 total)         Type a short English phrase and have Wolfram Alpha translate it into a         Wolfram Language expression.         []         100 random numbers from 1 to 10         RandomReal [ {1, 10 }, 100 ]         You can even do it in the middle of an expression—for example, to	×
00	Symbol       ⑦         Plot[f, {x, x <sub>min</sub> , x <sub>max</sub> }] generates a plot of f as a function of x from x <sub>min</sub> to x <sub>max</sub> .         Plot[{f1, f2,}, {x, x <sub>min</sub> , x <sub>max</sub> }] plots several functions fi.         Plot[{f1, f2,}, {x, x <sub>min</sub> , x <sub>max</sub> }] plots several functions fi.         Plot[{, w[f1],},] plots fi with features defined by the symbolic wrapper w.         Plot[, {x} ∈ reg] takes the variable x to be in the geometric region reg.         Documentation Local »   Web »         Options > AlignmentPoint → Center(63 total)         Type a short English phrase and have Wolfram Alpha translate it into a Wolfram Language expression.         []       100 random numbers from 1 to 10         []       RandomReal [ {1, 10 }, 100 ]	×

Mathematica	Details	Maple
Readable function	While good programming–language design is too complex to	
names	summarize in this document, one simple aspect can be seen in the	
	choice of function names. Mathematica uses a consistent set of	
	naming conventions for its functions, mostly using full English words	
	like FactorInteger, LinearProgramming, Integrate,	
	Counts, ContinuedFraction and Gamma, making code readable	
	and names easier to predict.	
	Maple follows this convention for recently added functions, but most	
	of its older functionality is inconsistent in the use of case and	
	abbreviation, making it harder to learn and remember. For example,	
	the Maple equivalents to the above functions are called ifactor,	
	LPSolve, Int, numboccur, cfrac and GAMMA.	

## International support

Mathematica	Details	Maple
Local language spellchecking	Mathematica provides real–time spellchecking in over 25 languages.	Maple has English
	●	spellchecking only and it isn't in real
	Wahrsheinlichkeit       Image: Constraint of the second seco	time.
Code captions	Mathematica can automatically display captions over code to clarify its meaning in 12 different languages. Module [ [morpammetak monyme] {fmp = f, gmp = g, temp, result, inpok = True}, [monyme] p = Modulus /. (opts) /. Options[PolynomialExtendedGCD]; [monyme] p = Modulus /. (opts) /. Options[PolynomialExtendedGCD]; [monyme] p = Infinity, p = 0]; [ycnometak] oneparap [npocroe число? Message[PolynomialExtendedGCD::modp, p]; [cooduentwe [neadwapentuak] anropurm Экаклида для многочленов inpok = False [note: ]; If [p = 1 = 0, [ycnometak] oneparop fmp = PolynomialMod[f, p]; [ynpocruts многочлен по модулю] gmp = PolynomialMod[g, p]; [ynpocruts многочлен по модулю]	×

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