



Calcline 4.5 User Guide

We Make Software - Ecleti.com

Calcline © 2005-2022 Ecleti - Roberto Panetta all rights reserved

Every effort has been made to ensure that the information in this manual is accurate. Ecleti is not responsible for printing or clerical errors. Other company and product names mentioned herein are trademarks of their respective companies.

Welcome to Calcline

Calcline

Calcline is an application to solve simple math calculations and algebraic expressions

It is a small strip window that you can use occupying just a small portion of the screen



You can also open an additional table view where you can se the value of variables and constants you can use in calculations

0	• •	Calcline	
0	x=9 y=12,1623 z=4 pi=3.14159 4		
rad	z=2+2		8
v	ar v Const v 🗐 v precision: 4	🗸 🗸 rad 🖹 Copy 💷 Table 🗏 Log 🕓 Al Al 🔂 🚱	
		Table	
	💿 Variables 🛛 Constants	Calc	line
	Variable Name	Variable Value (Modifiable via equation assignment)	
	x	9	
	У	12,1623	
	Z	4	
	+ - 🕲 🗸 3 Variables in Table	Double click a value in the table	to edit it

Getting Started with Calcline

Getting Started

Just launch Calcline and insert the algebraic expression to solve, as example: 500+22+75*(45000-714*3)-0.6*33/15 Type return and the result is shown.

	• •	Calcline	
0	x=9 y=12,1623 z=4 pi=3.14159 3.214.870,68		
deg	500+22+75*(45000-714*3)-0.6*33/15		8
Va	ar 🗸 Const 🗸 🕂 🖌 precision: 4 🖌 degº 😭	Copy 🖽 Table 📃 Log 🕓 Al At 🚖 🚱	

You can also use nested parenthesis such as:

1+2*((1+3)*((5-1)/(3-1)))

in case parenthesis doesn't much, try it inserting an additional parentheses, Calcline signals the error.



You can also use function as in:

sqrt(4)+1

Press result and Calcline will display the result as 3 calculating the square root of 4 and adding it to 1

Calcline can be used from within other applications as a service. If Calcline is installed on your Mac, the service will be automatically available inside all the other applications.

(You need to enable the service in the System Preferences > Keyboard > Shortcut > Services)

In detail you need to enable Calc with Calcline (add) Calc with Calcline (Replace)

See the images below for more info



After enabling it you will have these services in all applications on your Mac

Untitled — Edited

 1+1+sqrt(4)

Type a calculation formula inside any application, a text editor or others,

select it and choose 'Calc with Calcline' from the 'Services' submenu under the application menu, as example if you are using 'TextEdit' it will be under the 'TextEdit' menu.

Ú.	TextEdit File	Edit	Format View Window Help
	About TextEdit		
	Preferences		
	Services	>	Text Add to Music as a Spoken Track
	Hide TextEdit ೫H Hide Others ℃೫H Show All		 Add to Music as a Spoken mack Append Selection to BBEdit Scratchpad New BBEdit Document with Selection Calc with Calcline (Add)
	Quit TextEdit	ЖQ	😵 Calc with Calcline (Replace)
			🖣 Convert Text to Simplified Chinese ^ጊዕജር
			🖣 Convert Text to Traditional Chinese ^ ት ፠ C
			🥃 Make New Sticky Note 🛛 合業Y
			New CryptoEdit Document with Selection
			😫 Open
			😂 Show in Finder
			😌 Show Info in Finder
			🞦 Open man Page in Terminal 🛛 🗘 #M
			Search man Page Index in Terminal
			Searching
			🔤 Look Up in Dictionary
			Ø Search With Google ☆ ℋ L
			Development
			Activity Monitor
			Allocations & Leaks
			File Activity
1+1	l+sgrt(4)		System Trace
			Time Profile Active Application
			📄 Time Profile App Under Mouse
			Time Profile Entire System
			Toggle Instruments Recording
			Services Preferences
-			

The selection will be replaced by the result.

The calculation is performed in background by Calcline providing the result directly to the current running application.

Installing Calcline on your Mac, you will have its mathematical power inside any application.



You can invoke the services also selecting the text and using a contextual menu



Over 28 Functions and Operators

See the full list in the Function Section.

You can insert mathematical function using the "Paste Function" Submenu under the "Edit" menu or using the function popup above the input field.

	Calcline
x=9 y=12,1623 pi=3.14159 ✓ 4	z=4
_{deg} 1+2*((1+3) [*]	*((5-1)/(3-1)))+ Ø
Var 🗸 Const 🗸 [🕂 v precision: 4 v degº 🖹 Copy 🖽 Table 🗏 Log 🔨 Al Al <u>A</u> 🚱
_	sqrt cbrt
	sin
	cos
	tan
	atan
	sinh
	cosh
	tanh
	asinh
	acosh
	atanh
	log
	log10
	exp
	exp2
	expm1
	abs
	ceil
	floor
	rand
	+
	•
	^

Using Variables

You can use alphanumeric names in your equation and have Calcline manages them.

Assuming you assigned value of 0.32 to the variable named 'rate', inserting it directly in the table creating a new variable and double clicking it to edit it.

	🕽 🔴 🔵 Table					
💿 Variables 🔵 Constants Calcline						
Variable Name	Variable Value (Modif	able via equation assignment)				
x	9					
У	12,1623					
z	4					
rate	32					
+ - 🗇 🗸 4 Variable	es in Table	Double click a value in	the table to edit it			

then inside the Calcline window typing '100*rate' will obtain 3200

	• •				Calcline				
0	x=9 y=12,1623 pi=3.14159 65	z=4	rate=32						
rad	2"rate+1								8
Va	ar v Const v [fx 、	precision: 4	∽ rad	🖹 Сору	III Table	🗐 Log	🔨 Al Al 슆 🚱	

and you can see in the log, if you open it, the passages made for the calculation.



You can add, modify and remove variables in the drawer in two ways: Using the buttons to add and remove variables and double clicking in the table and editing directly inside the table

or...

You can insert an equation specifying the left value as: myVal=150*(3+2)

Calcline will create automatically the value 'myVal' in the variables table assigning to it the right value and you can use the variable length in successive expressions.

•••	Calcl	ine				
x=9 y=12,1623 z=4 rate=32 myVal=750 pi=3.14159 ✓ 750 rad mvVal=150*(3+2)						
Var ∨ Const ∨ <u>f</u> _≭ ∨	precision: 4 🗸 rad 🗎 Co	opy 🖽 Table 📃	Log ۲ _۷ A			
	Table					
💿 Variables 🕒 Consta	nts		Calcline			
Variable Name	Variable Value (Modifiable via e	quation assignment)				
x	9					
У	12,1623					
z	4					
rate	32					
myVal	750					
+ - © - 5 Variables i	n Table	Double click a value in t	he table to edit it			

If you assign again a value to 'myVal', Calcline will update the value in the table. The general rules are:

If you use a name as left value not yet in the table, Calcline will add it, if you use a variable name already in the table Calcline will update it with the new value.
After a variable name is in the table, you can use it in the right part of the equation.
If you try to use e variable name not present yet in the table you will get an error.
If you try to use a function name as a variable in the left value you will get an error.
If you try to use a variable with a misspelled name you will get an error

Formatting

Output format can be customised selecting "Preferences" under the "Calcline" menu.

It is possible to use for format number the USA style (1000000.245) or (1,000,000.245) with thousand separator or the one used in other countries (1000000,245) or (1.000.000,245) with thousand separator.

You can select the decimal precision and to optionally have numbers zero-filled up to the selected decimal precision.



You can select to show steps to accomplish calculation or not.

View the **Calcline Reference** section for all the info on preferences.

Calcline Reference

About Calcline

Calcline is a math and algebraic calculator for Mac OS X. It uses a calculation engine entirely developed by Tension Software. Calcline can manage both mathematical expression typed simply as:

1+1 or 22+(5+1)*cos(2)

or with a left and a right value as: $x=22+(5+1)*\cos(2)$



In the first case Calcline will act as a simple calculator displaying the result. In the second case Calcline can solve the expression and assign to "x" the correct value adding "x" to the variable tables of Calcline.

The variable table is a list of variables with an assigned value.

Calcline manages the variable table adding and updating new values as they are assigned via the input line.

The 'Table' window shows variables and constants in a two separate tables The user can change the content of the tables (variables and constant name and their value) clicking the table button

You can edit directly the variable value clicking directly on the table

When in the expanded form, the Calcline will display the value of variables in a compact form as they are in the table.

		Calcline	
x=19,503 pi=3,141 21,4	31 y=85,5031 z=4 rate=3: 59 4931	2 myVal=750 Ra=85,5031 Rb='	141.7031 Rc=174.7031 Rd=175.7031
rad Re=2	2+(5+1)*cos(2)+66+	56,2+33+1-54,21	8
Var 🗸 Co	nst 🗸 🛃 🗸 precision: 4	🗸 rad 🖹 Copy 🖽 Table	🗏 Log 🗞 Al Al 🚖 🚱
1		Table	
	💿 Variables 🔵 Constan	ts	Calcline
	Variable Name	Variable Value (Modifiable via equati	ion assignment)
	x	19,5031	
	у	85,5031	
	z	4	_
	rate	32	
	myVal	750	_
	Ra	85,5031	
	Rb	141.7031	_
	Rc	174.7031	
	Rd	175.7031	_
	Re	121,4931	
1	+ - © - 10 Variables ir	n Table	Double click a value in the table to edit it

In the 'Calcline' window the variables and constants area can scroll to accommodate values that don't fit inside the window

At any moment the user can open to the extended 'Table' window form clicking the Table button at the bottom of the Calcline window



The dedicated Table window can be enlarged to the full screen area to add and edit many variables in a easy way.

Dimension and position of the window are remembered over successive launches of the app.

When you relaunch Calcline you will find it in the state you left it.

Using Calcline

To correctly use Calcline you just to know a bit of mathematic (basic principles) and just few more specific rules (very general).

In an expression with the '=' sign, you have the left value and the right value. In Calcline an equation is an assignment of the value of the right part to the left part. In that way inserting x=2+2and pressing return means: assign to the variable named "x" the value of 2+2 (which is 4). Now if you type x+1and press return, the value of 5 will be displayed (Calcline picks up the value of 4 from the var table that is assigned to x)

You can omit the left value and the equal sign, in that way you specify that you want to just display the result without assigning the result to any variable.

In case you type an expression with a left value with a variable already in the table, its value will be update in accordance with the result of the expression.

As an example inserting x=101-2and pressing return , will assign to x (previous value of x was 4) the new value 99

Now inserting the new expression x+1 and pressing return will show the value of 100 (the new value of x is used)

Left values must be choose with few rules in mind:

It must be an alphanumeric value starting with a letter, as example 'Ada' or 'Ada22' but not '22Ada' or '22'

It must be a single word, as example 'AsaRep' but not 'Asa Rep'

It can't be a function name, as example it can't be 'Sin'

It can't contains reserved characters except standard alphabet letters and numbers, as example it can't be 'Sep*' or 'fea#'

They are case sensitive, as example `Pai7' is different from `pai7' You can add and change value in the variable table by typing directly inside the table

Evaluation of the right value, the expression, follows general mathematical rules: Precedence operator are respected as usually in mathematics in this order: Functions. Factorial operator ! Operator ^ power. Operator * and / Last to be evaluated are + and -Obviously parenthesis are used in the standard way to change evaluation precedence In that way 2*3+1 is equal to 7 and $2^{(3+1)}$ is equal to 8 just because what is inside the parenthesis is evaluated first. These are not a Calcline standards, they are mathematical standards and Calcline just uses them. Constant value are provided by Calcline directly by default, such as Pi= 3.141592653589793 e=2.718281828459045 phi=1.618033988749894 If you need to use other constants introduce them as constant in the constant table. As an example if you need constant K22 as 78.123456 just insert K22 and 78.123456 as value in the Constants table From now you can use theconstant K22 in your successive expression. You cant change its value via an assignment, as example inserting k22=1+1 in the formula field because you specified k22 as a constant

You can do it only for what you inserted in variables. That is the difference between variable and constant, you can use both for calculation but you can't use a constant as left value. The only way to change the value of a constant is to type its new value in the constant table.

Calcline can show in the log area every single step made to solve your algebraic expression. In that way you can check the precedence rules and the result is a lot more understandable. You can copy from the board selecting the text with the mouse.



At any moment you can insert an expression in the input field and have it solved. The operator to indicate decimal position, in the input field can be both comma or dot, considering in the world both are used it was possible to enable both without trouble, simply use the one you prefer.

DO NOT use comma or dot as thousand separator in the input field or in the table. You can insert value as 1000000,235 or 1000000.235 and Calcline will recognize it always as 1000000(decimal point)235 regardless of your international setting, but never use thousand separator in input phase.

Values in the var table are reported always without thousand separators to allow them to be edited easily.

You can use in calculation radians (the constant pi can help at this) or degree to make trigonometric calculation, a label button in Calcline make you switch the adopted convention at any moment just because both can be useful. Click the label to switch from radians to degree and back.

Preferences allow to customize the way output is performed.

To open preferences select "Preferences" from the "Calcline" menu.

See the Preferences paragraph for further details

Functions and Operators

To use a function in Calcline simply use the name of the function followed by the argument/arguments enclosed between parenthesis. Example: sin(0.12) where sin' is the function and 0.12 the argument.

Function can be used inside a normal calculation as : Example: $(sin(0.12)+0.03)^{*}2.43$

Function can be nested as: sin(cos(sqrt(1.456)))

See below the full list of the functions available in Calcline and click the name function to have further help.

To insert a function in Calcline you can also use the "Paste Function" submenu under "Edit" or the popup f menu in the Calcline window.



The following rules are used in pasting the function:

After inserting a function using the popup f menu, the cursor is positioned inside the parenthesis ready to type the function argument.

If the popup f is used when a selection is active inside the input field, the selection is used as argument of the function selected

List of Available functions and operators:

sqrt(x) cbrt(x) ____ sin(x) cos(x)tan(x)asin(x) acos(x) atan(x)___ sinh(x) cosh(x)tanh(x)asinh(x)acosh(x) atanh(x)____ log(x)log10(x)exp(x)exp2(x)expm1 ____ abs(x) ceil(x)floor(x) rand(x) + _ * / ۸ Ţ

To read more about the functions available see the 'Function Appendix' details

Variable Use as right value

You can use variables available in the variable table as right value of algebraic expression. During evaluation of the expression the value will be picked up from the table and used for calculation

As example if you write y=x+1

the value of x inside the variable table will be used for calculation

To copy and paste variable name from the table inside the input field you can use the variable popup to avoid errors

To enable it the cursor must be inside the input field



You can edit a variable value also inside the table

After changing manually it's value, future calculation will be affected by this change

💿 Variables 🛛 🔘 Co	onstants	Calcline
Variable Name	Variable Value (Modifiable v	via equation assignment)
v	19 50 31	
v	85 5031	
Z	4	
rate	32	
myVal	750	
Ra	85,5031	
Rb	141.7031	
Rc	174.7031	
Rd	175.7031	
Re	121.4931	
Zu	-54,9314	
+ — 💿 🗸 🛛 11 Varia	ables in Table	Double click a value in the table to edit i

Manipulating variables inside the Variable table is intuitive and immediate. You can Add remove and perform further functions on the variable inside the table using the additional popup menu at the bottom of the table.

+ -	· · · · · · · · · · · · · · · · · ·	in Table
	Set to Zero Set All to Zero	
	Delete All Import Var Export Var	

You can undo and redo action performed on variables via the Undo/Redo command under the Edit menu

Variable Use as left value

You can use variables available in the table also as left value during calculation.

The variable will be assigned the value resulting from the expression calculation. as example if you input:

x=700/4.56 the result of the operation will be assigned to a variable of name x.

If there is already a variable with that name inside the Variable table, the value will be updated, if not a new variable with that name will be created.

•	••			Cal	cline			
 ✓ rad 	x=153,5088 pi=3,14159 153,5088 x=700/4.5	y=85,5031 } 56	z=4 rate=32	myVal=750	Ra=85,5031	Rb=141.7031	Rc=174.7031	8
V	ar 🗸 Const	~ [fx ~	precision: 4 🗸	rad 🗐	Сору 🎹 Та	ible 📃 Log	🛛 🖕 🗛 Al Al 会 🤅	2

Constant Use

You can use constants in a similar way of variables in the right part of expressions

	Table	
🔵 Variables 💿 Consta	ants	Calcline
Constant Name	Constant Value (Not modifiable via ec	uation assignment)
pi	3,14159	
е	1.4446	
phi	1.618033988749895	
+ - © - 3 Constants	in Table	Double click a value in the table to edit it

You can manipulate constants directly in the Constant Table

Constant can't be used as left value of equations

Trying to assign a constant value using a constant in a left part of an expression will generate an error.

•	• •		Calcline										
•	 Error: Constant as left value 												
rad	k1=1+1							⊗					
Va	ar v Const v f <mark>x</mark> v	precision: 4 🗸 rad	🖹 Сору	III Table	🗐 Log	× _K AI A	At 🚖 😳						
(Tab	le										
	Variables • Consta	alcline											
	Constant Name	Constant Value (Not me	odifiable via	equation ass	ignment)								
	рі	3,14159											
	e	1.4446											
	phi	1.618033988749895	5										
	k1	7.89											
	+ - 💿 🗸 4 Constants	in Table		Double clic	k a value in the ta	ble to edit it							

If you need to change a constant value, the only way is to edit it's value in the table.

Manipulating constants inside the Constants table is easy as for the variables. You can Add remove and perform further functions on the constants inside the table using the additional popup menu at the bottom of the table.

You can undo and redo action performed on variables via the Undo/Redo command under the Edit menu

Import of variables and constant

It is possible to import and export variables and constant from and to text files

Input has to be a text file in tab separated value or comma separated values To import select the Variables or Constant in the upper part of the table

•••		
💿 Variables 🛛 Const	ants	Calcline
Variable Name	Variable Value (Modifiable via equation	n assignment)
x	153.5088	
у	85,5031	
z	4	
rate	32	
myVal	750	
Ra	85,5031	
Rb	141.7031	•
Rc	174.7031	
ראס + − ⊚ ~ 12 Variable	175 7091 s in Table	Double click a value in the table to edit it

Then select Import from the Tool popup at the bottom of the window

рд + —	نې د	12 Variables	in Table
	Set Set	to Zero All to Zero	_
	Del	ete All	
	lmp Exp	oort Var oort Var	

Then select a file to import and after selection select what to import

	Table					
Select Target Fields for Data to Import:	😑 Data to Impo	ort		E	Target Fields	
	Teta		» (Variable	\$	
1.49143	390312095052		» (Value	\$	
< │ i i Record 5 of 9		> ۞	~ (Imported	l Fields: 2	
Cancel First Row as New C	Col Name 🛛	Do not in	nport	first row	Import	

You can browse all the rows inside the dialog to make the right selection Confirm and the values will be imported inside the table

Export of variables and constant

It is possible to export to a text file Select in the upper part of the table Variables or Constants Select which fields to export from the 2 available (name and value)

Available Field		Exported Field
		Variable Value
	Remove <	
III 0 not exported fields	Remove All <	1 Jector 2 exported fields
1 records on 2 fields will be exported		Cancel Continue

which format from the available (you can even select a custom format defining the tag you like then save on disk.

Radians and Degree

You can switch between radians and degree using the button in the window



Performing calculation in radians or degree changes the result in trigonometric functions

Numeric Precision

You can change numeric precision used using the precision popup

~	precision: 4 🗸	
	0	
	1	
	2	
	3	
	√ 4	
	5	
	6	
	7	
	8	
	9	
	10	
	11	
	12	
	13	
	14	
	15	
	16	

Extended view

It is possible to show variables and Constants inside the calcline windows using the enlarge icon



The variables and the constants are displayed in two rows



Error Handling

Calcline handles and informs you about errors in the input field to let you correct them and retry calculation

	• •		Calcline							
•	Error: Unknown variable									
rad	1+srgh						⊗			
Va	r v Const v f <u>x</u> v	precision: 4 🗸 rad	📋 Сору	III Table	🗐 Log	🖌 🗛 🖓				



After an error it's enough to fix the error and press return again to calculate the expression it again

Custom Size and Color

You can personalise the size of the input and result text and the color of the text and the background color of the window

To increase decrease the size use the two buttons at the bottom of the window



To change the background color of the window use the color icon at the bottom of the window



To change the text color use the nearby icon button



Select the color you like in the Color selection window



Color and size set are remembered over application relaunches

At any time you can go back to the default color using the 'Default Window Color' command under the 'Tools' menu

	•	•							Cal	cline						
0	2	23														
rad	1	+ 8	alpha	ι												⊗
V	ar	~ (Const	∽ f _x	~	precision: 4	~	rad	Ê	Сору	Table	Log	لا	AI A1	2	

Use Calcline as a services from other applications

You can calculate expression from any other application using Calcline as a services As example you can select a text expression in any other word processor or text editor and select from the application menu of the app in use at the moment Services > Calc With Calcline

The service is also available via a popup menu, selecting a text inside any other application and right clicking or ctrl-clicking the text

		Untit	led —	Edited	
1+1+5	Look Up "1+1+sqrt(4)"				
	Search With Google				
	Cut				
	Сору				
	Share	>			
	Font	>			
	Spelling and Grammar	>			
	Substitutions	->			
	Transformations	>			
	Speech	>			
	Layout Orientation	>			
	Services	>	Add 1	to Music as a Spoken Track	
0			Appe	nd Selection to BBEdit Scratchpad	
			Calc	with Calcline (Add)	
			Calc	with Calcline (Replace)	
			Conv	ert Text to Simplified Chinese	
			Conv	ert Text to Traditional Chinese	
			New	BBEdit Document with Selection	
			New	CryptoEdit Document with Selection	
			Oper	1	
			Oper	n man Page in Terminal	
			Sear	ch man Page Index in Terminal	
			Show	/ in Finder	
			Show	/ Info in Finder	

If you use Calc with Calcline (Replace) the expression will be substituted with the result



If you sue Clc with Calcline (Add) the expression will be kept adding a '=' sign and the result



After installing Calcline on your Mac to have the 'Calc with Calcline' active as a service inside other application, you have to activate it in the preferences selecting the:

Keyboard > Keyboard Shortcut > Services option

••• <	> III к	eyboard	Q Search	
To change a sh Launchpa • Display	Keyboard ortcut, select nd	Text Shortcuts Input S it, click the key combination, a Folder Actions Setu Send File To Blueto	Sources Dictation and then type the new keys. .p none woth Device 介第B	
 Mission C Keyboard Input Sou Screensh Services Spotlight Accessibit App Shor 	:o irc ots lity tc	 Searching Look Up in Dictiona Search With Google Spotlight V Text Add to Music as a S Append SelectiEc New BBEdit Dont Calc with Calcline (ary none e 企業L 企業F Spoken Track none dit Scratchpad none with Selection none (Add) none (Replace) none	I
Use keyboa Press the Ta	rd navigation t ib key to move	o move focus between contro focus forward and Shift Tab to	Restore D Restore D Is o move focus backward. Set Up Bluetooth Keyboa	efaults

Preferences

General

Decimal separator let you set the char used to separate decimal part of numbers

Thousand separator let you set the char used to separate thousands in numbers

Log Let you select the tag used at any line of the logged calculation

Calculation separator let you specify a line of chars to be used as separator between different calculations

🗕 🔍 🖉 General	General	Advanced
Decimal Separator		
 According to International System Pref Force use of 		
Thousands Separator		
Do Not use		
 Use According to International System Pref Force use of 		

Advanced

'Decimal Precision' specify how many positions to use after the decimal place in showing numbers

Force Decimal Precision Zero Fill let you to force the use of a specified 'Decimal Precision' using in case zeros to fill up to the required precision Example: if the required Decimal Precision is 3 and the number to show is 7.4 it will be printed on screen as 7.400

'Show Calculation Steps' specify if to show or not the calculation step by step in the CalcLog area



Light and Dark Appearance Mode

Calcline 4 is fully compatible with Light and Dark Appearance.

•	••				Calcline				
✓	7 1+ alpha	a							
Va	r v Const	∽ [<u>f</u> x ∽	precision: 4	∽ rad	🖹 Сору	III Table	📃 Log	r, Al At <u>A</u> 🕄	

You can switch at any time from one mode to another

	• •	Calcline													
0	7														
rad	1+ alpha														⊗
Va	ar 🗸 Const 🖌 🖡	~	precision: 4	~	rad	🖹 Сору		Table		Log	ĸ	At A	1 会	٩	

Help

Calcline provides a PDF user guide under the Help menu.

Support

You can also obtain support using the 'Support Email...' command. An email will be prepared using your email client with the correct address to send to. Yes, we answer to your emails.

Web Site

Visit our site if you need further info on Calcline or other application we make.

About Tension Software and Ecleti

All the software asset by Tension Software is now under Ecleti New company name but still the same owner and main developer (Roberto Panetta) So for the users nothing changes. We provide the same software and the services. All the user licenses are valid and assistance is provided as before to all our users.

Function Appendix

sqrt(x)

The function returns the real square root of x.

An error occurs if x < 0. Example: sqrt(4.5)

cbrt(x)

The function returns the cubic root of x. Example: cbrt (8)

sin(x)

The function returns the sine of x. Example: sin(1.570796)

This function is effected by the selection radiant/degree Make your imput according to the selected convention

cos(x)

The function returns the cosine of x. Example: cos(1.047198)

This function is effected by the selection radiant/degree Make your imput according to the selected convention

tan(x)

The function returns the tangent of x. Example: tan(0.785398)

This function is effected by the selection radiant/degree Make your imput according to the selected convention

asin(x)

The function returns the arcsin (the angle whose sine is x) in the range [-PI/2, +PI/2] radians.

Example: asin(0.8413)

Argument x must be in the range -1 < x < +1 or it will generate an error. This function is effected by the selection radiant/degree Returned value will be in according to the selected convention

acos(x)

The function returns the arccos (the angle whose cosine is x) in the range [0, +PI] radians. Example: acos(0.215)Argument x must be in the range -1 < x < +1 or it will generate an error. This function is effected by the selection radiant/degree Returned value will be in according to the selected convention

atan(x)

The function returns the arctangent (the angle whose tangent is x) of x. Example: atan(4.235)

This function is effected by the selection radiant/degree Returned value will be in according to the selected convention

sinh(x)

The function returns the hyperbolic sine of x. Example: sinh(0.933) This function is effected by the selection radiant/degree Make your imput according to the selected convention

cosh(x)

The function returns the hyperbolic cosine of x. Example: cosh(1.12232)

This function is effected by the selection radiant/degree Make your imput according to the selected convention

tanh(x)

The function returns the hyperbolic tangent of x. Example: tan(0.7847) This function is effected by the selection radiant/degree Make your imput according to the selected convention

asinh(x)

The inverse hyperbolic sine of the real argument Example: asinh(1,2493670505239753) This function is effected by the selection radiant/degree Returned value will be in according to the selected convention

acosh(x)

The principle value of the inverse hyperbolic cosine of x. The result is in the range [0, +infinity]. acosh(1,2537539340920866) This function is effected by the selection radiant/degree Returned value will be in according to the selected convention

atanh(x)

The inverse hyperbolic tangent of the real argument x. atanh(0,4804727781564516) This function is effected by the selection radiant/degree Returned value will be in according to the selected convention

log(x)

The function returns the natural logarithm of x. Example: log(4.113)Argument x must be >= 0 or it will generate an error.

log10(x)

The function returns the base-10 logarithm of x. Example: log10(100)Argument x must be >= 0 or it will generate an error.

exp(x)

Exponential function. The function returns the base-2 exponential of x

exp2(x)

Exponential 2 function. The function returns the base-e exponential of x

expm1

Exponential 2 minus 1 function. The function returns the base-e exponential of x minus 1 accurately even for very small values of x.

abs(x)

The function returns the absolute value of x. Example: abs(-18.5)

ceil(x)

The smallest integer value greater than or equal to x. Example: ceil(333.25)

floor(x)

The largest integer value less than or equal to x. Example: floor(22.74)

rand(x)

Provides a random floating value included between 0 and x . Example: rand(5.5)

+

Addition of two values Example: 1+1

-

Subtraction of second value from first Example: 3-2

*

Multiplication of first value for the second Example: 2*5

/ Division of first operator by the second Example: 4/2

Nover Elevation

Example: 6^3

! Factorial Value Example: 4! Other Software We Make

Yes. We have more then one app in the App Store. Please have a look using, from the help menu the 'Show App Store List' command.

Maybe we have some other app that you can like! Thank you for your support.

About Tension Software and Ecleti

All the software asset by Tension Software is now under Ecleti New company name but still the same owner and main developer (Roberto Panetta) So for the users nothing changes. We provide the same software and the services. All the user licenses are valid and assistance is provided as before to all our users.