

Date Time Calc 2.4 User Guide



We Make Software - Ecleti.com

Date Time Calc © 2011-2022 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 Date Time Calc

Date Time Calc to calculate future and past dates and to calculate differences between dates

Date Time Calc, is a simple tool to solve problems that often users have with dates in business and in technical fields:

Calculate a date starting from a given date and adding a time interval
Calculate a previous date starting from a given date and subtracting a time interval.
Calculate the difference between two separate dates, in years, months, days or with more precision (days, hours, minutes, seconds)

Date Time Calc can work at level of days or also calculating dates and differences using years, months, days, hours, minutes and seconds.

All that, wrapped inside and intuitive and easy of use Mac interface. In Date Time Calc any time you change a value everything changes to make values coherent.

Date time calc was realised to be simple to use and effective in its results

You can modify it's input and see the result live as you change the data

You can change the left or the right date and the app keeps all the datas current according with your last input

The values you read are always correct and updated as you type or click, there is no a 'Calc' button or a 'Calculation Required' state when you modify things

•••	Date Time Calc	
Jul 2021 ◄ ● ▶ Mo Tu We Th Fr Sa Su 28 28 29 30 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 23/ 7/2021 Image: Content of the second se	Guess Difference Calendar Date Time Precise Years Months Days 120 Total Days 120	Nov 2021
Copy to Clipboard	Changing Above Updates: << >> 23 Jul 2021 + (120 days) = 20 Nov Add To Log	ڑ 2021 Show Log ⇒

You have guarantee that Date Time Calc result is always up to date with the current input.

Getting Started with Date Time Calc

Calculating 90 days from now

- · Launch Date Time Calc and if not already opened, open a new document
- Select in the upper tab view 'Guess' (a date)
- · Select also 'Calendar date' below

Guess	Difference
Calen	dar Date
Time Precise	

· Press on the left part, in left date' the button 'Set to Now'



- Be sure in the central part is selected '>>'
- · Select 'Calendar Date'

· Insert 90 days



Done

On the right part date time is set to the date on the left + 90 days

You can see the result displayed also in amore clear way on the bottom of the window.

The date is visualised according to your international settings and language selected in the System Preference (using your language and h24 or h12 am/pm time format)



Now any changes in any of the two date will update the other date maintaining the 90 days of difference between the two dates

Try to modify 'the left date or right date, any changes is reflected in the other date to maintain the inserted 'Difference'

If you change the difference, the date updates is the one selected in the 'Change Here Updates' control, the one on the left or the one on the right



Reference

Calculation performed

Date Time Calc allows to calculate 'Guess' a future or past date from an initial date adding or subtracting a specified amount of years, months and days in 'Calendar Date' mode or using days, hours minutes and seconds using the 'Time Precise' mode.

It allows also to calculate differences between two specified dates.

Date Guess

Calculation of future and past dates is performed selecting the 'Guess' tab



The window has a Date 1 on the left and a Date 2 on the right and a difference between the two dates in the middle

	Guess Difference	
Jul 2021	Calendar Date Time Precise Years Months Days 10 V Total Days 10	Nov 2021 • • • Mo Tu We Th Fr Sa Su 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11 12 2/11/2021 5 5 5 5 5
Set To Now	Changing Above Updates:	Set To Now උ

When you modify the date on the left (left date) the content is updated to maintain the right date equal to left date plus the difference: left date + (difference) = right date

In this way if you put 90 days in the difference, the date on the right will be always 90 days after left date

If you change the the right date, left date will be maintained 90 days before right date

If you change the difference in the middle, the date changed is the one specified in the control in the middle 'Changing Here Updates'



If you press the '+' button it changes to a '-' and it switches from adding the time interval to subtracting it from the left date

	Gu	uess Difference		
Jul 2021	Yea Mo Da Tot	Calendar Date Time Precise ars onths 3 ys 10 V tal Days 100	Apr 2021 • • • • Mo Tu We Th Fr Sa Su 20 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 13/ 4/2021	
	Chan	iging Above Updates: << >>	Ç	
	23 Jul 2021 - (3 n	nonths, 10 days) = 13 Ap	or 2021	

left date - (difference) = right date

Date Difference

To calculate difference between two dates select the upper tab 'Date Difference' Insert the first date on the left and the second date on the right

		Guess Difference	
Jul 2021	۲ ۲ ۲ ۲	Calendar Date Time Precise Years 0 Months 4 Days 17	Dec 2021
		C	
	23 Jul 2021 + (4	months, 17 days) = 10	0 Dec 2021

The central part will show the difference

Calendar Date

Calendar date allows to insert a time difference in years, months and days. We added this from release 1 at popular request, so we know it was a most wanted feature.

You can add years, months, days and obtain also difference in those units in a total natural way of thinking at long time intervals.

	Guess	Differenc	e
	CalendTime P	ar Date recise	
	Years	1]
	Months	4	
+	Days	17	
	Total Davs		
	lotal Days		

Remember that years, months and days area not precise method because years, months and even days are not absolute measure unit.

Years are for 3 year of 365 days and for one year of 366 days. (only 4 years have a precise time lenght)

Months vary from 28 days to 31 and february is 28 days and 29 any 4 years. Days are always 24 hours except for 2 times per year when time changes due to daylight saving time changes.

So the question 'How much days are inside 2 years 3 months ' has no answer if you don't specify starting (or ending) from when and you can see that this time interval can have different length using Date Time Calculation.

If you want to have precise reference to a time interval in days (as example in a technical or legal document) without a dependence of when it is placed within a year, always use days only as measure unit and avoid years and months.

Time Precise

Switching to time precise changes the field used to specify a time interval to add or subtract.

The Time Precise mode allows to add days, hours, minutes and seconds.



Insertion of dates

To insert a date in the two areas left date and the right date you can use standard macOS controls that any Mac user already knows

• A standard calendar with point and click use (in Calendar date)



- · A calendar plus a clock with draggable parts in Time precise mode
- A textual date picker

Any of these parts is a representation of the same date time, the left date and the right date used for calculation

Using this control, you can easily set dates

Selecting 'Use Days' or 'Use Days + Time' changes the calendar controls in accordance to make things as easy and simple as possible.



Note that the two dates , left date and right date are always linked via the calculation and when you change one, the other changes according to the difference So if there is 1 day difference and you put November 7, 2013 inside Date Time 1, automatically Date Time 2 will be set to November 8, 2013 The opposite is also true if you put 31 December on the right date the left date adjust to 30 december 2013

How to calculate a forward date

You want to calculate a 'future date', using a 'starting date' and adding some days Insert the 'starting' date on the left. If you want to use the current date press 'Set to Now' in the left date area

In the 'Difference area be sure 'Changing Here Updates' is selected on '>>'



Insert the time differences in days The right date will show the resulting date

The result will be displayed also in the bottom part of the window

	23 Jul 2021 + (3 months, 28 days) = 20 Nov 2021	
Copy to Clipboard	Add To Log	Show Log >

It's the same result you can see from the controls, only better readable and without possibility of misinterpretations.

How to calculate a backward date

You want to calculate a 'past date', using a 'starting date' and subtracting some days.

Insert the 'starting' date on the right. If you want to use the current date press 'Set to Now' in the right date area

In the 'Difference area be sure updates '<< ' is selected



Insert the time differences in days The left date will show the resulting date

The result will be displayed also in the bottom part of the window

If you modify the date in the left date the right date will update its content as you type

If you modify the date in the right date also in the left date the content is updated as you type

If you change the days in the 'Difference' area the the left date is updated, according with your 'Updates' control setting

This is not a suggested method because it can generate confusion and maybe in the future it maybe intentionally disabled to avoid misinterpretations of result

Insert Difference in advance

If you insert the difference in advance, before inserting the dates, you can work regardless of the selection in the 'Changing Here Updates:' control



You just insert the difference in days, then:

you set a date on the left date to obtain the date after the specified days on the right right date

or:

you setup the date in the right date to obtain the date before the specified days on the left date.

The controls always display values in accordance with your last input.

or you insert the starting date on the left and press the '-' butto to subtract the date range.

Changing the sign of the operation

You can click the sign plus between the left date and the Time difference and the time elements will be subtracted and not added



The result will change in accordance

•••	Date Time Calc	
Mar 2021 • • • • Mo Tu We Th Fr Sa Su 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 25/ 3/2021 💭	Guess Difference Calendar Date Time Precise Years Months Days 120 Total Days 120	Jul 2021 • • • Mo Tu We Th Fr Sa Su 28 29 30 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 23/ 7/2021
c	Changing Above Updates: << >>	
	25 Mar 2021 + (120 days) = 23 Ju	ul 2021
Copy to Clipboard	Add To Log	Show Log >

Daylight saving time and how long is considered a day

To see this particular aspect we will try this:

We have as geographic position Europe, so DST is considered for Central Europe Inserting on left date, a past date of march 26, 2016 at 3:48:20 PM and adding 24 hours, we end one day

	Date Time Calc	
Mar 2016 ◀ ● ► Mo Tu We Th Fr Sa Su 29 1 2 3 4 5 6 7 8 9 10 11 12 13	Guess Difference Calendar Date Time Precise	Mar 2016
14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 26/ 3/2016, 03:48:20 \$ \$ \$ \$	Days 0 💌 = Hours 24	14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 27/ 3/2016, 04:48:20 © ©
Set To Now උ	Seconds Changing Above Updates:	Set To Now
26 Mar 2016 at 03:48: Copy to Clipboard	20 + (24 hours) = 27 Mar 2 Add To Log	2016 at 04:48:20 Show Log >

later at 4:48:20 PM (valid for Europe Central Time, it may change depending of your time zone, in case do it with the date of when your DST change applies in your time zone)

Why?

In the middle there is a time shift of 1 hour due to daylight saving time change, and there is a day with just 23 hours.

We added 24 hours so Date Time Calc did it exactly, added 24 hours

We try now adding 1 days

	Date Time Calc	
Mar 2016 () Mo Tu We Th Fr Sa Su 29 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 26/ 3/2016, 04:48:20 Set To Now	Guess Difference Calendar Date Time Precise Days Hours Minutes Seconds Changing Above Updates:	Mar 2016 4 • • • Mo Tu We Th Fr Sa Su 29 1 2 3 4 5 7 8 9 10 11 12 1 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 33 4 6 6 7 8 9 10 12 23 4 5 6 7 8 9 10 12 23 4 5 6 7 8 9 10 12 23 4 5 6 7 8 9 10 12 3 4 5 6 7 8 9 10 10 12 3 7 6 5 5 7 8 9 10 12 14 14 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 1
26 Mar 2016 at 04:44 Copy to Clipboard	3:20 + (1 days) = 27 Mar 20 Add To Log)16 at 04:48:20 Show Log ⇒

Now Date Time Calc is smart enough to understand that in that case it has to consider daylight saving time shift and one day will be of 23 hours due to daylight saving time change.

Log

Log allows to write the obtained date time calculation inside the Log using the 'Add to Log' button inside the main window.

Log can be showed and hidden using the 'Show' Log discloser button in the lower right part of the window.

25 May 2021 at 08:53:58 + (60 days) = 24 Jul 2021 at 08:53:58		
Copy to Clipboard	Add To Log	Show Log 🗸
22 Jul 2021 + (90 days) = 20 Oct 2021 22 Jul 2021 + (120 days) = 19 Nov 2021 22 Jul 2021 + (150 days) = 19 Doc 2021 22 Jul 2021 + (33 months, 150 days) = 19 Sep 2024 22 Jul 2021 + (3 years, 10 months, 22 days) = 13 Jun 2025 25 May 2021 at 08:53:58 + (60 days) = 24 Jul 2021 at 08:53:58		
		Reset Log

You can reset the log using the 'Reset Log' button The log keeps it's content over re-launch of the application until you decide to reset it via the 'Reset Log' button

Dark Appearance Mode

This application is also fully compatible with Dark Appearance Mode available on macOS from macOS 10.14 Mojave and successive.

•••	Date Time Calc	
	Guess Difference	
Jul 2021 Mo Tu We Th Fr Sa Su 28 29 30 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 23/ 7/2021, 09:17:24 Set To Now	Calendar Date Time Precise + Days Hours Minutes Seconds	Sep 2021 Image: Constraint of the second state of the secon
Ċ	Changing Above Updates:	
23 Jul 2	2021 at 09:17:24 + (60 days) = 21 Se	p 2021 at 09:17:24
Copy to Clipboard	Add To Log	Show Log $$
22 Jul 2021 + (90 days) = 20 Oct 2021 22 Jul 2021 + (120 days) = 19 Nov 2021 22 Jul 2021 + (150 days) = 19 Dec 2021 22 Jul 2021 + (3 months, 150 days) = 19 S 22 Jul 2021 + (3 years, 10 months, 22 days) 25 May 2021 at 08:53:58 + (60 days) = 24 J	Sep 2024) = 13 Jun 2025 Jul 2021 at 08:53:58	
		Reset Log

Sandbox

Date Time Calc is a sandboxed app. It is not enabled to access your local files for your security.

It is not enabled to access your local files for your security. It doesn't need it to work properly.

Help

Date Time Calc provides a standard help menu ...use the Date Time Calc Help command to access it!

You can use the Help menu also to visit our site or contact us with the 'Web Site' command.

Available under the Help menu also a PDF user guide.

Support

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

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.