

# How do I use the YEARFRAC function in Excel?

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## RECOMMENDED CITATION

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The YEARFRAC function in Excel is a useful tool for calculating the number of years between two given dates. It can be used to determine the fractional number of years between two dates, which can be helpful for financial and time-based calculations. To use the YEARFRAC function, simply input the start and end dates in the correct format and the function will return the number of years between them. This function can be particularly useful for analyzing trends and making projections based on historical data. It is a straightforward and efficient way to calculate the passage of time in Excel.

This article describes the formula syntax and usage of the **YEARFRAC** function in Microsoft Excel.

## Description

**YEARFRAC** calculates the fraction of the year represented by the number of whole days between two dates (the **start\_date** and the **end\_date**). For instance, you can use **YEARFRAC** to identify the proportion of a whole year's benefits, or obligations to assign to a specific term.

## Syntax

YEARFRAC(start\_date, end\_date, )

The YEARFRAC function syntax has the following arguments:

**Start\_date** Required. A date that represents the start date.

**End\_date** Required. A date that represents the end date.

**Basis** Optional. The type of day count basis to use.

Basis	Day count basis
0 or omitted	US (NASD) 30/360
1	Actual/actual
2	Actual/360
3	Actual/365
4	European 30/360

### Important:

Dates should be entered by using the **DATE** function, or as results of other formulas or functions. For example, use DATE(2018,5,23) for the 23rd day of May, 2018. Problems can occur if dates are

entered as text.

The **YEARFRAC** function may return an incorrect result when using the US (NASD) 30/360 basis, and the start\_date is the last day in February.

## Remarks

Excel stores dates as sequential serial numbers so they can be used in calculations. By default, January 1, 1900 is serial number 1, and January 1, 2018 is serial number 43101 because it is 43,101 days after January 1, 1900.

All arguments are truncated to integers.

If start\_date or end\_date are not valid dates, YEARFRAC returns the #VALUE! error value.

If basis < 0 or if basis > 4, YEARFRAC returns the #NUM! error value.

## Need more help?

You can always ask an expert in the [Excel Tech Community](#) or get support in [Communities](#).