Excel functions list

Below are over 200 Excel functions to help you become a world-class financial analyst.

Date and Time

DATE

Create a valid date from year, month, and day



DATEDIF

Get days, months, or years between two dates



DATEVALUE

Convert a date in text format to a valid date



DAY

Get the day as a number (1-31) from a date



DAYS

Get days between dates



DAYS360

Get days between 2 dates in a 360-day year



EDATE

Get the same date in future or past months



EOMONTH

Get the last day of the month in future or past months



HOUR

Get the hour as a number (0-23) from a time



ISOWEEKNUM

Get ISO week number for a given date



MINUTE

Get the minute as a number (0-59) from a time



MONTH

Get the month as a number (1-12) from a date





NETWORKDAYS

Get the number of working days between two dates



NETWORKDAYS.INTL

Get work days between two dates



NOW

Get the current date and time



SECOND

Get the second as a number (0-59) from a time



TIME

Create a time with hours, minutes, and seconds



TIMEVALUE

Get a valid time from a text string



TODAY

Get the current date





WEEKDAY

Get the day of the week as a number



WEEKNUM

Get the week number for a given date



WORKDAY

Get a date n working days in the future or past



WORKDAY.INTL

Get date n working days in future or past



YEAR

Get the year from a date



YEARFRAC

Get the fraction of a year between two dates

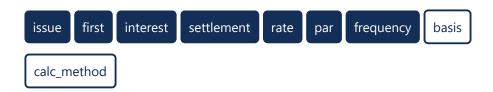


Financial



ACCRINT

Get the accrued interest for a security that pays interest on a periodic basis



ACCRINTM

Get the accrued interest for a security that pays interest on maturity



CUMIPMT

Get the cumulative interest paid on a loan



CUMPRINC

Get the cumulative principal paid on a loan



DB

Calculate the depreciation of an asset



DISC

Calculate the rate of discount for a bond





DOLLARDE

Converts a dollar value in fractional notation into a dollar value expressed in decimal notation



DOLLARFR

Convert a dollar value in decimal notation into a dollar value in fractional notation



DURATION

Get the duration of a security



EFFECT

Get the annual interest rate and the number of compounding periods per year



FV

Get the future value of an investment



FVSCHEDULE

Get the future value of an investment with a variable interest rate





<u>INTRATE</u>

Get the interest rate for a security



<u>IPMT</u>

Get principal for given period



<u>IRR</u>

Get the Internal Rate of Return for a given cash flow



<u>ISPMT</u>

Get the interest paid during a specific period of Investment



MDURATION

Get the duration of a security using the Modified Macauley method



MIRR

Get the modified internal rate of return for given periodic cash flows



NOMINAL

Get the nominal annual interest rate





NPER

Get number of periods for loan or investment



NPV

Get the Net Present Value (NPV) for periodic cash flows



PDURATION

Get the time or specific number of periods required for an investment to reach a particular value



PMT

Get the periodic payment for a loan



PPMT

Get the payment on the principal for an investment or a loan



PRICE

Get the price of a bond per \$100 face value





PRICEDISC

Get the price of a bond per \$100 face value of a discounted security



PRICEMAT

Get the price of a bond that pays interest at maturity per \$100 face value



PV

Get the present value of an investment



RATE

Get the interest rate per period of an annuity



RECEIVED

Get the amount received at maturity for a fully invested security



<u>SLN</u>

Get the straight-line depreciation of an asset



<u>SYD</u>

Get the sum-of-years' digits depreciation of an asset





TBILLPRICE

Get the fair market value of a Treasury bill



TBILLEQ

Get the bond-equivalent yield of a Treasury bill



TBILLYIELD

Get the yield on a Treasury bill



VDB

Get the depreciation of an asset using the Double Declining Balance method



XIRR

Get the Internal Rate of Return (IRR) for a series of cash flows that may not be periodic



XNPV

Get the Net Present Value (NPV) for a series of cash flows that may not be periodic





YIELD

Get the yield on a security



YIELDDISC

Get the annual yield for a discounted security



YIELDMAT

Get the annual yield on a security



Engineering

CONVERT

Convert measurement units



Information

CELL

Get information about a cell





ERROR.TYPE

Test for a specific error value



<u>INFO</u>

Get information about current environment



ISBLANK

Test if a cell is blank



<u>ISERR</u>

Test for any error but #N/A



ISERROR

Test for any error



ISEVEN

Test if a value is even



ISFORMULA

Test if a cell contains a formula





ISLOGICAL

Test if a value is logical



<u>ISNA</u>

Test for the #N/A error



ISNONTEXT

Test for a non-text value



ISNUMBER

Test for numeric value



<u>ISODD</u>

Test if a value is odd



<u>ISREF</u>

Test for a reference



<u>ISTEXT</u>

Test for a text value





<u>N</u>

Convert a value to a number



<u>NA</u>

Create an #N/A error



TYPE

Get the type of value in a cell



Logical

<u>AND</u>

Test multiple conditions with AND



FALSE

Generate the logical value FALSE



<u>IF</u>

Test for a specific condition





IFERROR

Trap and handle errors



IFNA

Returns a specified alternate value if a formula results in an #N/A error



<u>IFS</u>

Test multiple conditions, return first true



NOT

Reverse arguments or results



<u>OR</u>

Test multiple conditions with OR



SWITCH

Evaluates a given expression and returns a result corresponding to the first matching value





TRUE

Generate the logical value TRUE



XOR

Perform exclusive OR



Lookup and Reference

ADDRESS

Create a cell address from a given row and column



AREAS

Get the number of areas in a reference



CHOOSE

Get a value from a list based on position



COLUMN

Get the column number of a reference





COLUMNS

Get the number of columns in an array or reference



FORMULATEXT

Get the formula in a cell



GETPIVOTDATA

Get data from a pivot table in a formula



HLOOKUP

Look up a value in a table by matching on the first row



HYPERLINK

Create a clickable link



INDEX

Get a value in a list or table based on location



INDIRECT

Create a reference from text





LOOKUP

Look up a value in a one-column range



MATCH

Get the position of an item in an array



OFFSET

Create a reference offset from given starting point



ROW

Get the row number of a reference



ROWS

Get the number of rows in an array or reference



RTD

Get real-time data from a COM automation server



TRANSPOSE

Flip the orientation of a range of cells





VLOOKUP

Look up a value in a table by matching on the first column



Math

<u>ABS</u>

Find the absolute value of a number



ARABIC

Convert a Roman numeral to an Arabic numeral



BASE

Converts a number into the supplied base



CEILING

Round a number up to the nearest specified multiple



CEILING.MATH

Round a number to the nearest integer or multiple of significance





CEILING.PRECISE

Round up a number to the nearest integer or multiple of significance



COMBIN

Calculate the total number of combinations



COMBINA

Calculate the total number of combinations along with repetitions



DEGREES

Convert radians to degrees



EVEN

Round a number up to the next even integer



ISO.CEILING

Get a number rounded up to the nearest integer or multiple of significance



MOD

Get the remainder from division





MROUND

Round a number to the nearest specified multiple



ODD

Round a number up to the next odd integer



Ы

Get the value of π



RAND

Get a random number between 0 and 1



RANDBETWEEN

Get a random integer between two values



ROUND

Round a number to a given number of digits



ROUNDDOWN

Round a number down to a given number of digits





ROUNDUP

Round a number up to a given number of digits



SQRT

Find the positive square root of a number



SUBTOTAL

Get a subtotal in a list or database



SUM

Add numbers together



SUMIF

Sum numbers in a range that meet supplied criteria



SUMIFS

Sum cells that match multiple criteria



SUMPRODUCT

Multiply, then sum arrays





TRUNC

Truncate a number to a given precision



Statistical

AVERAGE

Get the average of a group of numbers



AVERAGEA

Get the average of a group of numbers and text



AVERAGEIF

Get the average of numbers that meet criteria



AVERAGEIFS

Average cells that match multiple criteria



BINOM.DIST

Get the binomial distribution probability for the number of successes from the trials



BINOM.DIST.RANGE

Get the binomial distribution probability for a given number of successes



CHISQ.DIST

Get the chi-square distribution



CHISQ.DIST.RT

Get the right-tailed probability of a chi-square distribution



CHISQ.INV

Get the inverse of the left-tailed probability of the chi-square distribution



CHISQ.INV.RT

Get the inverse of the right-tailed probability of a chi-square distribution



CHISQ.TEST

Get the chi-square distribution of two provided datasets



CONFIDENCE

Get the confidence interval for a population mean





CONFIDENCE.NORM

Get the confidence interval for a population mean



CONFIDENCE.T

Get the confidence value for the confidence interval of a population mean



CORREL

Calculate the correlation coefficient between two variables



COUNT

Count numbers



COUNTA

Count the number of non-blank cells



COUNTBLANK

Count cells that are blank



COUNTIF

Count cells that match criteria





COUNTIFS

Count cells that match multiple criteria



COVAR

Get the covariance of two sets of values



COVARIANCE.P

Get the covariance of two given set of values



COVARIANCE.S

Get the sample covariance for two sets of values



CRITBINOM

Get the smallest value that is greater than or equal to the criterion value in a Cumulative Binomial Distribution



DEVSQ

Get the sum of the squared deviations from the sample mean





F.DIST

Calculate the probability density function



F.DIST.RT

Calculate the (right-tailed) F Probability Distribution



F.INV

Calculate the inverse of the Cumulative F Distribution for a supplied probability



F.INV.RT

Calculate the inverse of the (right-tailed) F probability distribution



FORECAST

Get the future value using existing values



FORECAST.LINEAR

Get the future value using linear progression





FREQUENCY

Get the frequency of values in a data set



F.TEST

Get the result of an F-test for two given arrays or ranges



GAUSS

Get the probability that a member of a standard normal population will be between the mean and a specified number of standard deviations



GROWTH

Get the predicted exponential growth using existing data



LARGE

Get the nth largest value



LOGNORM.DIST

Get the cumulative log-normal distribution function at a given value of x





LOGNORM.INV

Get the inverse of the lognormal cumulative lognormal distribution function at a given value of x



<u>MAX</u>

Get the largest value



MAXA

Get the largest value



MAXIFS

Get maximum value with criteria



MEDIAN

Get the median of a group of numbers



MIN

Get the smallest value





MINA

Get the smallest value



MINIFS

Get minimum value with criteria



MODE

Get the mode of a group of numbers



MODE.MULT

Get a vertical array of statistical modes within a list of given numbers



MODE.SNGL

Get the most frequently occurring number in a numeric data set



NEGBINOM.DIST

Get the negative binomial distribution probability



NORMDIST

Get the normal distribution for a stated mean and standard distribution





NORM.DIST

Get the probability that variable x falls below or at a specified value



NORMINV

Get the inverse of a normal cumulative distribution



NORM.INV

Get the inverse of a normal cumulative distribution



NORM.S.DIST

Get the standard normal distribution function for a given value



NORM.S.INV

Get the inverse of the normal cumulative distribution for a given probability value



PEARSON

Get the Pearson Product-Moment Correlation Coefficient for two sets of values





PERCENTILE

Get the k-th percentile of the values in a range



PERCENTILERANK

Get the rank of a value in a data set



PERMUT

Get the total number of permutations



PERMUTATIONA

Get the total number of permutations, with repetitions



PHI

Get the value of the density function for a standard normal distribution



POISSON.DIST

Get the Poisson probability mass function



PROB

Get the probability that is associated with a given range





QUARTILE

Get the quartile in a data set



QUARTILE.EXC

Get the quartile of a given data set based on percentile values from 0.1 exclusive



QUARTILE.INC

Get the quartile of a given data set based on percentile values from 0.1 inclusive



RANK

Rank a number against a range of numbers



SLOPE

Get the slope of a linear regression line



SMALL

Get the nth smallest value





<u>STANDARDIZE</u>

Get a normalized value (z-score) based on the mean and standard deviation



STDEV

Get the standard deviation in a sample



STDEVA

Get the standard deviation in a sample



STDEVPA

Get the standard deviation of an entire population given as arguments



STDEV.P

Get the standard deviation in a population



STDEV.S

Get the standard deviation in a sample



T.DIST

Get the student's t-distribution





T.DIST.RT

Get the right-tailed student's t-distribution



T.INV

Get the left-tailed student's t-distribution



T.INV.2T

Get the two-tailed student's T-Distribution



T.TEST

Get the probability associated with a student's t-test



TREND

Get the linear trend line to the arrays of known_y's and known_x's



VARA

Get the sample variance of a set of values



VAR.P

Get the variance of a set of values (population)





VAR.S

Get the variance of a sample



WEIBULL.DIST

Get the Weibull distribution for a supplied set of parameters



Z.TEST

Get the one-tailed P-value of a Z-test



Text

CHAR

Get a character from a number



CLEAN

Strip non-printable characters from text



CODE

Get the code for a character





CONCAT

Join text values without delimiter



CONCATENATE

Join text together



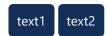
DOLLARDE

Converts a dollar value in fractional notation into a dollar value in decimal notation



EXACT

Compare two text strings



FIND

Get the location of text in a string



FIXED

Rounds and converts a supplied number to text





LEFT

Extract text from the left of a string



LEN

Get the length of text



LOWER

Convert text to lower case



<u>MID</u>

Extract text from inside a string



NUMBERVALUE

Converts a text string into a number in a locale-independent manner



<u>PROPER</u>

Capitalize the first letter in each word



REPLACE

Replace text based on location





REPT

Repeat text as specified



RIGHT

Extract text from the right of a string



SEARCH

Get the location of text in a string



SUBSTITUTE

Replace text based on content



Ι

Tests if the value provided is a text or not



TEXT

Convert a number to text in a number format



TEXTJOIN

Join text values with a delimiter





TRIM

Remove extra spaces from text



UNICHAR

Get the Unicode character for a given number



UNICODE

Get the code point for a given character



<u>UPPER</u>

Convert text to upper case



VALUE

Convert text to a number



