

CELF functions list

Category	Function	Description	Arguments
Information	ISBLANK	If a blank cell is referred, return TRUE.	value
Information	ISERROR	If a cell is in ERROR state, return TRUE.	value
Information	ISFORMULA	If there is a reference to a cell that contains a formula, return TRUE.	reference
Information	ISNUMBER	If a cell is number value, return TRUE.	value
Logic	AND	If and only if all operands are TRUE, return TRUE.	logical1, logical2, ...
Logic	FALSE	Return FALSE	
Logic	IF	Valuate whether a value or expression meets condition.	logical_test, value_if_true, value_if_false
Logic	IFERROR	If result of expression is error, return the specified value, otherwise return result of expression.	value, value_is_error
Logic	NOT	Return logical NOT value of operand.	logical
Logic	OR	Return TRUE if whichever of the oprands is TRUE.	logical1, logical2, ...
Logic	TRUE	Return TRUE.	
Logic	XOR	Return true only when operands differ.	logical1, logical2, ...
Logic	EQUALWITHSTYLE	Return true when operands are equal and have the same text style properties. Formatting information other than styles such as Number and Alignment is not compared. Also, styles are not compared if the value is anything other than text, such as a number, date, or time.	value1, value2
Find/Line-column	ADDRESS	Return a string for referring cell of worksheet.	row_num, column_num, abs_num, a1, sheet_text
Find/Line-column	COLUMN	Return column number of a cell.	reference
Find/Line-column	FORMULATEXT	Return the formula at the given reference as text.	reference
Find/Line-column	HLOOKUP	Find value in first row of specified range, return value of the specified row in the same column.	lookup_value, table_array, row_index_num, range_lookup
Find/Line-column	HYPERLINK	Create shortcut or jump for opening documents stored in network servers, intranet or internet.	link_location, friendly_name
Find/Line-column	INDEX	Return the value of a cell in a range based on the specified row and column.	range, row_num, [column_num]
Find/Line-column	INDIRECT	Indirectly specify a cell through the string in a cell referred with a string.	ref_text, a1
Find/Line-column	LOOKUP	Return value of a cell found in a range of one row or one column.	lookup_value, lookup_vector, result_vector
Find/Line-column	MATCH	Return the relative position of an item in a range of cells (lookup_array) that matches a specified value based on the setting of the match_type argument.	lookup_value, lookup_array, [match_type]
Find/Line-column	ROW	Return row number of a cell.	reference
Find/Line-column	STYLED	Return text from a cell without removing styling information. It doesn't return formatting information other than text styles such as Number and Alignment. Also, if the value is anything other than text, such as a number, date, or time, styling information will not be returned.	reference
Find/Line-column	VLOOKUP	Find value in first column of specified range, return value of the specified column in the same row.	lookup_value, table_array, column_index_num, range_lookup
Find/Line-column	XLOOKUP	Find value in specified range, return value of the specified return range.	lookup_value, lookup_array, return_array, if_not_found, match_mode, search_mode
Date/Time	DATE	Return the value that represents a particular date.	year, month, date
Date/Time	DAY	Return the day of a date, represented by a serial number. The day is given as an integer ranging from 1 to 31.	date
Date/Time	EOMONTH	Return the last day of the specified number of months from the start date.	start_date, months
Date/Time	HOUR	Return the hour of a time value. The hour is given as an integer, ranging from 0 (12:00 A.M.) to 23 (11:00 P.M.).	time
Date/Time	MINUTE	Return the minutes of a time value. The minute is given as an integer, ranging from 0 to 59.	time
Date/Time	MONTH	Return the month of a date represented by a serial number. The month is given as an integer, ranging from 1 (January) to 12 (December).	date
Date/Time	NOW	Return the current date and time.	
Date/Time	SECOND	Return the seconds of a time value. The second is given as an integer in the range 0 (zero) to 59.	time
Date/Time	TIME	Return the value that represents a particular time.	hour, minute, secound
Date/Time	TODAY	Return the current date.	
Date/Time	WEEKDAY	Return the day of the week corresponding to a date. The day is given as an integer, ranging from 1 (Sunday) to 7 (Saturday).	date, [type]
Date/Time	YEAR	Return the year corresponding to a date. The year is returned as an integer in the range 1900-9999.	date
Math/Triangle	ABS	Return the absolute value of a number.	number
Math/Triangle	CEILING	Return a number rounded up to the nearest multiple of a specified value(significance).	number, significance
Math/Triangle	COS	Return the cosine of an angle.	number
Math/Triangle	FLOOR	Return a number rounded down to the nearest multiple of a speficed value(significance).	number, significance
Math/Triangle	INT	Round a number down to the nearest integer.	number
Math/Triangle	LOG	Return the logarithm of a number to a specified base.	number, [base]
Math/Triangle	LOG10	Return the base-10 logarithm of a number.	number
Math/Triangle	MOD	Return the remainder after number is divided by divisor.	number, divisor
Math/Triangle	MROUND	Return a number rounded to the desired multiple.	number, multiple
Math/Triangle	PI	Return pi.	
Math/Triangle	POWER	Return the result of a number raised to a power.	number, power
Math/Triangle	PRODUCT	Return the product of a supplied list of numbers.	number1, number2, ...
Math/Triangle	RAND	Return a random number between 0 and 1.	
Math/Triangle	RANDBETWEEN	Return a random integer number between the numbers you specify.	bottom, top
Math/Triangle	ROUND	Round a number to a specified number of digits.	number, num_disits
Math/Triangle	ROUNDDOWN	Round a number down, toward zero.	number, num_digits
Math/Triangle	ROUNDUP	Round a number up, away from zero.	number, num_digits
Math/Triangle	SIGN	Return the sign of a number.	number
Math/Triangle	SIN	Return the sign of the angle.	number

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Math/Triangle	SUBTOTAL	Return subtotal result of specified ranges.	ftype, range1, range2, ...
Math/Triangle	SUM	Adds its arguments.	number1, number2, ...
Math/Triangle	SUMIF	Adds the cells specified by a given criteria.	range, criteria, sum_range
Math/Triangle	SUMIFS	Adds the cells in a range that meet multiple criteria.	sum_range, criteria_range1, criteria1, ...
Math/Triangle	SQRT	Return the positive square root of a number.	number
Math/Triangle	TRUNC	Truncates a number to an integer.	number, num_disits
Statistics	AVERAGE	Return the average of its arguments.	number1, number2, ...
Statistics	AVERAGEA	Return the average of its arguments, including numbers, text, and logical values.	value1, value2, ...
Statistics	AVERAGEIF	Return the average (arithmetic mean) of all the cells in a range that meet a given criteria.	range, criteria, average_range
Statistics	AVERAGEIFS	Return the average (arithmetic mean) of all cells that meet multiple criteria.	average_range, criteria_range1, criteria1, ...
Statistics	COUNT	Return the count of numbers contained in each item of the argument list.	value1, value2, ...
Statistics	COUNTA	Return the count of data contained in each item of the argument list.	value1, value2, ...
Statistics	COUNTBLANK	Return the number of blank cells within a range.	range
Statistics	COUNTIF	Count the number of cells within a range that meet the given criteria.	range, criteria
Statistics	COUNTIFS	Count the number of cells within a range that meet multiple criteria.	criteria_range1, criteria1, ...
Statistics	INTERCEPT	Calculate the point at which a line will intersect the y-axis by using existing x-values and y-values.	known_y's, known_x's
Statistics	MAX	Return the maximum value in a list of arguments.	number, number2, ...
Statistics	MIN	Return the minimum value in a list of arguments.	number1, number2, ...
Statistics	SLOPE	Return the slope of the linear regression line through data points in known_y's and known_x's.	known_y's, known_x's
Statistics	STDEV	Alias of STDEV.S, estimates standard deviation based on a sample.	number1, number2, ...
Statistics	STDEV.S	Estimate standard deviation based on a sample.The standard deviation is a measure of how widely values are dispersed from the average value (the mean).	number1, number2, ...
Statistics	STDEVP	Alias of STDEV.P. Calculates standard deviation based on the entire population given as arguments.	number1, number2, ...
Statistics	STDEV.P	Calculate standard deviation based on the entire population given as arguments. The standard deviation is a measure of how widely values are dispersed from the average value (the mean).	number1, number2, ...
Statistics	VAR	Alias of VAR.S. Estimates variance based on a sample.	number1, number2, ...
Statistics	VAR.S	Estimate variance based on a sample (ignores logical values and text in the sample).	number1, number2, ...
Statistics	VARP	Alias of VAR.P. Calculates variance based on the entire population.	number1, number2, ...
Statistics	VAR.P	Calculate variance based on the entire population.	number1, number2, ...
String	ASC	Change full-width (double-byte) English letters or katakana within a character string to half-width (single-byte) characters.	text
String	CONCATENATE	Join several text items into one text item.	text1, text2, ...
String	DBCS	Change half-width (single-byte) English letters or katakana within a character string to full-width (double-byte) characters.	text
String	EXACT	Check to see if two text values are identical.	text1, text2
String	FIND	Find one text value within another (case-sensitive).	find_text, within_text, start_num
String	FINDB	Find one text value within another (case-sensitive).	find_text, within_text, start_num
String	JIS	Change half-width (single-byte) English letters or katakana within a character string to full-width (double-byte) characters.	text
String	LEFT	Return the leftmost characters from a text value.	text, num_chars
String	LEFTB	Return the leftmost characters from a text value.	text, num_bytes
String	LEN	Return the number of characters in a text string.	text
String	LENB	Return the number of characters in a text string.	text
String	LOWER	Convert text to lowercase.	text
String	MID	Return a specific number of characters from a text string starting at the position you specify.	text, start_num, num_chars
String	MIDB	Return a specific number of characters from a text string starting at the position you specify.	text, start_num, num_bytes
String	REPT	Repeat text a given number of times.	text, num_repeats
String	RIGHT	Return the rightmost characters from a text value.	text, num_chars
String	RIGHTB	Return the rightmost characters from a text value.	text, num_bytes
String	SEARCH	Find one text value within another (not case-sensitive).	find_text, within_text, start_num
String	SEARCHB	Find one text value within another (not case-sensitive).	find_text, within_text, start_num
String	SUBSTITUTE	Substitute new text for old text in a text string.	text, old_text, new_text, instance_num
String	TEXT	Apply the specified format to value, and return a string converted from the value.	value, format_text
String	TRIM	Remove spaces from text.	text
String	UPPER	Convert text to uppercase.	text
Engineering	BIN2DEC	Convert a binary number to decimal.	number
Engineering	BIN2HEX	Convert a binary number to hexadecimal.	number, places
Engineering	BIN2OCT	Convert a binary number to octal.	number, places
Engineering	BITAND	Return a 'Bitwise And' of two numbers.	number1, number2
Engineering	BITLSHIFT	Return a value number shifted left by shift_amount bits	number, shift_amount
Engineering	BITOR	Return a bitwise OR of 2 numbers.	number1, number2
Engineering	BITRSHIFT	Return a value number shifted right by shift_amount bits.	number, shift_amount
Engineering	BITXOR	Return a bitwise 'Exclusive Or' of two numbers.	number1, number2
Engineering	DEC2BIN	Convert a decimal number to binary.	number, places
Engineering	DEC2HEX	Convert a decimal number to hexadecimal.	number, places

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Engineering	DEC2OCT	Convert a decimal number to octal.	number, places
Engineering	HEX2BIN	Convert a hexadecimal number to binary.	number, places
Engineering	HEX2DEC	Convert a hexadecimal number to decimal.	number
Engineering	HEX2OCT	Convert a hexadecimal number to octal.	number, places
Engineering	OCT2BIN	Convert an octal number to binary.	number, places
Engineering	OCT2DEC	Convert an octal number to decimal.	number
Engineering	OCT2HEX	Convert an octal number to hexadecimal.	number, places
Input format	BUTTON	Place a BUTTON control in cell	label_text, id_num
Input format	CALENDAR	PLace a CALENDAR control in cell	year_num, month_num, day_num
Input format	CHECK	Place a CHECK button control in cell	checked, label_text
Input format	LIST	Place a LIST control in cell	selected_num, item1_text, item2_text, ...
Special	COMBOCHART	Show a "combo chart" built from multiple XY charts.	xychart1, xychart2, ...
Special	DIRECTORY.EXISTS	Return TRUE if the folder of the specified path exists. If the folder does not exist in the specified path or it is a file, return FALSE.	directory_path
Special	FILE.EXISTS	Return TRUE if the file of the specified path exists. If the file does not exist in the specified path or it is a folder, return FALSE.	file_path
Special	FILE.SIZE	If a file exists in the specified path, return its file size (byte). If the file does not exist in the specified path or it is a folder, return an error.	file_path
Special	IMAGE	Display the image of the specified file ID. If you specify a second argument, the value will be displayed as text in a cell along with the image. Please specify TRUE for the third argument in the case to fit the image to the size of the cell.	file_id, [text], [fit?]
Special	PIECHART	Show a pie chart in specified cell.	chart_type, data_range, data_point_labels, data_set_labels, data_point_colors
Special	SCATTERCHART	Show a scatter chart in the specified cell.	chart_type, data_range, data_point_labels, data_set_labels, data_set_colors
Special	USER.COMPANYID	Return the company ID currently logged in. Return #N/A if the license file is unregistered in a non-multi-tenant environment such as an on-premise version.	
Special	USER.ID	Return login user ID.	
Special	USER.INGROUP	Return TRUE if login user belongs to the specified group.	group-id
Special	USER.ISADMIN	Return TRUE when the login user has system administrator authority.	
Special	USER.ISDBA	Return TRUE when the login user has database administration authority.	
Special	USER.ISDEV	Return TRUE when the login user has sheet creation authority.	
Special	USER.NAME	Return login user name.	
Special	UTIL.CELLV	Return the cell value specified by the row number and column number (number or column name).	row_num, column_num, sheet_text
Special	UTIL.DECRYPT	Return the decrypted string of the specified encrypted string, using the key with the specified encryption key name. If the encryption key name is omitted, the encryption key with the encryption key name "default" is used. Note that the specified encryption string must be a string encrypted with the UTIL.ENCRYPT function and with the same encryption key.	encrypted_text, [encryption_key_name]
Special	UTIL.ENCRYPT	Return the encrypted string of the specified value, using the key with the specified encryption key name. If the encryption key name is omitted, the encryption key with the encryption key name "default" is used.	value, [encryption_key_name]
Special	UTIL.ISCHARTYPE	Check whether the string belongs to the specified type. Specify the type with one of the following numbers. (1:Half-width upper-case alphabetical characters, 2:Half-width lower-case alphabetical characters, 3:Half-width alphabetical characters, 4:Half-width numbers, 5:Half-width Katakana, 6:Half-width characters (except Katakana), 7:Half-width characters, 11:Full-width upper-case alphabetical characters, 12:Full-width lower-case alphabetical characters, 13:Full-width alphabetical characters, 14:Full-width numbers, 15:Full-width Hiragana, 16:Full-width Katakana, 17:Full-width characters).	text, type, ...
Special	UTIL.ISDATE	If the specified cell contains a Date, return TRUE.	value
Special	UTIL.ISMAILADDR	If the string is a valid e-mail address, return TRUE.	text
Special	UTIL.ISNUMBER	If the specified cell contains a number, return TRUE. Dates and times are not considered to be numbers.	value
Special	UTIL.ISPHONENO	If the string is a valid phone number, return TRUE.	text
Special	UTIL.ISPOSTALCODE	If the string is a valid zip code, return TRUE.	text
Special	UTIL.ISTIME	If the specified cell contains a Time, return TRUE.	value
Special	UTIL.ISURL	If the string is a valid URL starting with 'http' or 'https', return TRUE.	text
Special	UTIL.JOIN	Join all text in specified range into one text. Separator can be specified at second argument. (Default separator is comma.)	text_range, [separator]
Special	UTIL.LOCALE	Return the PC locale. If 1 is specified for the output format, return the language code; if 2 is specified, return the language/region tag. If not specified, it works as 1.	[output_format]
Special	UTIL.REGEXP	If matched with the specified regular expression, return TRUE.	regexp, text
Special	WEB.IMAGE	Display the image of the specified Web App file ID. If you specify a second argument, the value will be displayed as text in a cell along with the image. Please specify TRUE for the third argument in the case to fit the image to the size of the cell. The fourth argument should be a WebAppID. Note that the Web app ID you specify must be a Web app that the user can use.	web_app_file_id, [text], [fit?], [web_app_id]
Special	XYCHART	Show a XY chart in specified cell.	chart_type, data_range, data_point_labels, data_set_labels, data_set_colors