

# How can I use the function IMLOG2 in Google Sheets?

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## RECOMMENDED CITATION

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PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=157886>

The IMLOG2 function in Google Sheets is a useful tool for calculating the logarithm of a complex number to the base 2. To use this function, simply select a cell and type =IMLOG2, followed by the complex number you wish to calculate the logarithm for. This function can be used for a variety of applications, such as signal processing and data analysis. It is important to note that this function is only available in Google Sheets and not in other spreadsheet programs. With the IMLOG2 function, users can easily and accurately calculate the logarithm of complex numbers in Google Sheets.

## IMLOG2 function

The IMLOG2 function returns the logarithm of a complex number with base 2.

### Parts of an IMLOG2 formula

IMLOG2 (value)

Part	Description	Notes
value	The input value of the logarithm function.	The number can be written as plain numbers, for example 1, to be interpreted as a real number. The number can be written as quoted text in order to specify both the real and complex coefficients.

### Sample formulas

IMLOG2 ("1+i", 3.5)

IMLOG2 (COMPLEX (25, 34), 2.3)

IMLOG2 (100, 10)

### Notes

IMLOG2 is equivalent to IMLOG given base of 2 for all numbers.

### Examples

	A	B
1	<b>Formula</b>	<b>Result</b>
2	=IMLOG2 ("1+i")	0.5+1.1330900354568i
3	=IMLOG2 (COMPLEX (25, 34))	5.39923590055081+1.35147863744424i

4	=IMLOG2(100)	6.64385618977473
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## Related functions

**IMLOG:** The IMLOG function returns the logarithm of a complex number for a specified base.

**IMLOG10:** The IMLOG10 function returns the logarithm of a complex number with base 10.

**COMPLEX:** The COMPLEX function creates a complex number, given real and imaginary coefficients.

**IMAGINARY:** Returns the imaginary coefficient of a complex number.

**IMREAL:** Returns the real coefficient of a complex number.

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