

How can I use the T.INV function in Excel?

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The T.INV function in Excel is a statistical tool that allows users to find the inverse of a given probability in a Student's t-distribution. This function can be used by entering the desired probability and degrees of freedom, providing the user with the corresponding t-value. This information can then be utilized in various statistical analyses, such as hypothesis testing or confidence interval calculations. By using the T.INV function, users can easily obtain critical values and make informed decisions based on their data. It is a powerful tool for data analysis and can greatly benefit those working with statistical data in Excel.

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

Returns the left-tailed inverse of the Student's t-distribution.

Syntax

T.INV(probability,deg_freedom)

The T.INV function syntax has the following arguments:

Probability Required. The probability associated with the Student's t-distribution.

Deg_freedom Required. The number of degrees of freedom with which to characterize the distribution.

Remarks

If either argument is nonnumeric, T.INV returns the #VALUE! error value.

If probability ≤ 0 or if probability > 1 , T.INV returns the #NUM! error value.

If deg_freedom is not an integer, it is truncated.

If deg_freedom < 1 , T.INV returns the #NUM! error value.

Example

Copy the example data in the following table, and paste it in cell A1 of a new Excel worksheet. For formulas to show results, select them, press F2, and then press Enter. If you need to, you can adjust the column widths to see all the data.

Formula	Description	Result
=T.INV(0.75,2)	The left-tailed inverse of the Student's t-distribution with a probability of 75% and 2 degrees of freedom.	0.8164966

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