

How can I use the FISHER function in Excel to calculate the Fisher transformation of a given value?

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The FISHER function in Excel is a useful tool for calculating the Fisher transformation of a given value. This transformation is often used in statistics to convert a dataset with a non-normal distribution into a more normally distributed dataset. To use the FISHER function, simply enter the desired value as the input and the function will return the Fisher transformation of that value. This can be especially helpful in analyzing data and making more accurate statistical inferences. By using the FISHER function, users can easily and efficiently transform their data to better fit statistical models and improve the accuracy of their analyses.

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

Description

Returns the Fisher transformation at x. This transformation produces a function that is normally distributed rather than skewed. Use this function to perform hypothesis testing on the correlation coefficient.

Syntax

FISHER(x)

The FISHER function syntax has the following arguments:

X Required. A numeric value for which you want the transformation.

Remarks

If x is nonnumeric, FISHER returns the #VALUE! error value.

If $x \leq -1$ or if $x \geq 1$, FISHER returns the #NUM! error value.

The equation for the Fisher transformation is:

$$z' = \frac{1}{2} \ln \left(\frac{1+x}{1-x} \right)$$