

How do I use the CHISQ.INV.RT function in Google Sheets?

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CHISQ.INV.RT is a function in Google Sheets that allows you to calculate the inverse right-tailed probability for a chi-squared distribution. This function is useful for statistical analysis and can help you determine the probability of obtaining a particular result in a chi-squared test. To use this function, simply provide the degrees of freedom and the probability value as inputs, and the function will return the inverse right-tailed probability. This can be helpful for making informed decisions and drawing conclusions from statistical data.

CHISQ.INV.RT

Calculates the inverse of the right-tailed chi-squared distribution.

Sample Usage

CHISQ.INV.RT(0.42, 2)

CHISQ.INV.RT(A2, B2)

Syntax

CHISQ.INV.RT(probability, degrees_freedom)

probability - The probability associated with the right-tailed chi-squared distribution.

Must be greater than 0 and less than 1.

degrees_freedom - The number of degrees of freedom of the distribution.

Notes

degrees_freedom is truncated to an integer if a non-integer is provided.

degrees_freedom must be at least 1.

All arguments must be numeric.

CHISQ.INV.RT is synonymous with CHIINV.

See Also

CHIDIST: Calculates the right-tailed chi-squared distribution, often used in hypothesis testing.

CHIINV: Calculates the inverse of the right-tailed chi-squared distribution.

CHISQ.INV: Calculates the inverse of the left-tailed chi-squared distribution.

CHITEST: Returns the probability associated with a Pearson's chi-squared test on the two ranges of data. Determines the likelihood that the observed categorical data is drawn from an expected distribution.

F.INV: Calculates the inverse of the left-tailed F probability distribution. Also called the Fisher-Snedecor distribution or Snedecor's F distribution.

T.INV: Calculates the negative inverse of the one-tailed TDIST function.

Example

Suppose you want to find the cutoff for the chi-squared statistic associated with a p-value of 0.05. With 4 degrees of freedom, you can consider any chi-squared statistic larger than 9.487729037 to be statistically significant.

	A	B	C
1	Probability	Degrees freedom	Solution
2	0.05	4	9.487729037
3	0.05	4	=CHISQ.INV.RT(0.05, 4)
4	0.05	4	=CHISQ.INV.RT(A2, B2)