

# How can I calculate the kurtosis of a data set in Google Sheets?

Authored by  
**stats writer**

June 30, 2024

## RECOMMENDED CITATION

stats writer (2024). *How can I calculate the kurtosis of a data set in Google Sheets?*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=162541>

Kurtosis is a statistical measure that describes the shape of a data set's distribution. It measures the degree to which the data is clustered around the mean and the presence of outliers. In order to calculate the kurtosis of a data set in Google Sheets, the user can follow these steps:

1. Select a cell where the kurtosis value will be displayed.
2. Enter the formula "`=KURT(range)`", where "range" is the range of cells that contains the data set.
3. Press Enter to calculate the kurtosis value.
4. The result will be a numerical value, with a value of 3 indicating a normal distribution. A positive value greater than 3 indicates a more peaked distribution with heavier tails, while a negative value less than 3 indicates a flatter distribution with lighter tails.

By following these steps, the user can easily calculate the kurtosis of a data set in Google Sheets, providing valuable insights into the shape and distribution of the data.

## KURT

Calculates the kurtosis of a dataset, which describes the shape, and in particular the "peakedness" of that dataset.

### Sample Usage

```
KURT(1,2,3,4,5,6,7,8,9,10)
```

```
KURT(A2:A100)
```

### Syntax

```
KURT(value1, )
```

`value1` - The first value or range of the dataset.

`value2, ...` - Additional values or ranges to include in the dataset.

### Notes

Although `KURT` is specified as taking a maximum of 30 arguments, Google Sheets supports an arbitrary number of arguments for this function.

If the total number of values supplied as `value` arguments is not at least two, `KURT` will return the `#DIV/0!` error.

Any text encountered in the `value` arguments will be ignored.

Positive kurtosis indicates a more "peaked" distribution in the dataset, while negative kurtosis indicates a flatter distribution.

## See Also

**VARPA**: Calculates the variance based on an entire population, setting text to the value `0`.

**VARP**: Calculates the variance based on an entire population.

**VARA**: Calculates the variance based on a sample, setting text to the value `0`.

**VAR**: Calculates the variance based on a sample.

**STDEVP**: Calculates the standard deviation based on an entire population, setting text to the value `0`.

**STDEV**: Calculates the standard deviation based on an entire population.

**STDEVA**: Calculates the standard deviation based on a sample, setting text to the value `0`.

**SKEW**: Calculates the skewness of a dataset, which describes the symmetry of that dataset about the mean.

**DVARP**: Returns the variance of an entire population selected from a database table-like array or range using a SQL-like query.

**DVAR**: Returns the variance of a population sample selected from a database table-like array or range using a SQL-like query.

**DSTDEVP**: Returns the standard deviation of an entire population selected from a database table-like array or range using a SQL-like query.

**DSTDEV**: Returns the standard deviation of a population sample selected from a database table-like array or range using a SQL-like query.

**DEVSQ**: Calculates the sum of squares of deviations based on a sample.

**AVEDEV**: Calculates the average of the magnitudes of deviations of data from a dataset's mean.

## Examples