

? How can I calculate the covariance in Google Sheets?

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June 30, 2024

RECOMMENDED CITATION

stats writer (2024). ? How can I calculate the covariance in Google Sheets?.
PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=162228>

The process of calculating covariance in Google Sheets involves using a specific formula to determine the relationship between two variables in a data set. This statistical measure is used to analyze the degree to which two variables vary together, and can be useful in identifying patterns and trends within the data. By using the built-in functions and tools in Google Sheets, users can easily calculate covariance and gain valuable insights into their data.

COVAR

Calculates the covariance of a dataset.

Sample Usage

```
COVAR(A2:A100, B2:B100)
```

Syntax

```
COVAR(data_y, data_x)
```

`data_y` - The range representing the array or matrix of dependent data.

`data_x` - The range representing the array or matrix of independent data.

Notes

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

Positive covariance indicates that the independent data and dependent data tend to change together in the same direction; negative indicates that they tend to change together in the opposite direction (i.e. increase in one leads to decrease in the other). The magnitude of covariance is difficult to interpret - use `CORREL` or `PEARSON`, the normalized version of `COVAR`, to gauge strength of linear correlation.

See Also

`STEYX`: Calculates the standard error of the predicted y-value for each x in the regression of a dataset.

`SLOPE`: Calculates the slope of the line resulting from linear regression of a dataset.

`RSQ`: Calculates the square of r, the Pearson product-moment correlation coefficient of a dataset.

`INTERCEPT`: Calculates the y-value at which the line resulting from linear regression of a dataset

will intersect the y-axis ($x=0$).

FORECAST: Calculates the expected y-value for a specified x based on a linear regression of a dataset.

COVAR: Calculates the covariance of a dataset.

CORREL: Calculates r, the Pearson product-moment correlation coefficient of a dataset.

Examples

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