

The Tiki spreadsheet feature was [added to Tiki in 2004 \(version 1.9\)](#) using Tiki specific PHP and JavaScript code. Starting in [Tiki5](#), the Tiki spreadsheet front-end was upgraded to use [jquery.sheet](#) for a much nicer interface, and more features. It worked well for years, and eventually, jQuery.sheet was renamed to WickedGrid. However, WickedGrid [has been inactive for years](#) so we need to switch to one of the [many impressive modern alternatives](#). If you would like to help with this, we are looking for financial sponsors and/or volunteer developers. And later, testers. Please contact [Marc Laporte](#).

This page should merge with [Spreadsheet JQ](#)

# Spreadsheet

Tiki Spreadsheet performs calculations on user entered numeric data and presents the resulting data in tables and/or graphics within Tiki pages. The documentation describes the various available calculations performed by the Tikisheet.

## Enable the feature

## Overview

## Sheet management

|         |                                              |
|---------|----------------------------------------------|
| Graph   | Create graphics and charts                   |
| History | View spreadsheet modification history        |
| Export  | Save the spreadsheet data in an other format |
| Import  | Load data from an other data source          |
| Edit    | Modify the parameters of the spreadsheet     |
| Delete  | Deletes the spreadsheet                      |

## Add one

Insert this code in a wiki page in order to have on spreadsheet added there:

```
{sheet}
```

And follow the instructions/links that you will be provided in the page after saving it.

## Usage - text

### Cell Navigation

- Left Arrow - Active cell moves left if possible
- Right Arrow - Active cell moves right if possible
- Up Arrow - Active cell moves up if possible
- Down Arrow - Active cell moves down if possible

### Cell Highlighting With Arrow Keys

- Left Arrow + Shift - Highlights left if possible
- Right Arrow + Shift - Highlights right if possible
- Up Arrow + Shift - Highlights up if possible
- Down Arrow + Shift - Highlights down if possible

## Editing

- Escape - Active cell is removed from focus
- Enter - Active cell is set and cell moves down if possible.
- Shift + Enter - Adds a line break to the cell's value
- Tab - Active cell is set and active cell moves right if possible
- Ctrl + X - Cut
- Ctrl + C - Copy
- Ctrl + V - Paste

## Undo & Redo

- Ctrl + Z - Undo
- Ctrl + Y - Redo

A formula is the reason why spreadsheets are so powerful. jQuery.sheet has a very powerful and secure formula engine that can be used in the following way:

- Starting a cell's value with '=' activates the formula engine on the active cell(s) you are editing, for example (results in 100):

=100

- This would really be the same as setting the cell's value to '100'
- Now lets start really using formulas (results in 0.03):

=(100 + 200) /1000

jQuery.sheet v3 offers the option of [creating and referencing variables](#) (see [jQuery.sheet setting formulaVariables](#))

- Example of using simple variable in formula:

=variable\_name

Variables can also have attributes:

- Example of using variable with attributes in formula:

=variable\_name.attribute

- Example of using variable with math:

=100 \* variable\_name

Functions are where much of the work is done within spreadsheets. Here is how to use them:

- To use the SUM function, enter the following:

=SUM()

- To use SUM with a single cell:

=SUM(A1)

- To use SUM with a range of cells:

=SUM(A1:B2)

- Nested functions:

=DOLLAR(SUM(A1:B2) + SUM(D1:E2))

## **Available Function (To be written)**

Cells can be referenced in the following ways:

- Single cell - example:

A1

- Range of cells - example:

A1:B2

- Single cell fixed - example:

\$A\$1

- Range of cells fixed - example:

\$A\$1:\$B\$2

- Other spreadsheet single cell - Example:

SHEET2!A1

- Other spreadsheet range of cells - Example:

SHEET2!A1:B2

## Copy-Paste from a desktop spreadsheet

See:

| Function  | Arguments                                             | Example                                                   | Result            | Additional Information                                                                                                                                                                                                                                                       | Sample # | Sample Text      |
|-----------|-------------------------------------------------------|-----------------------------------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------|
| ABS       | numbers_as_array                                      | "=ABS(F4)"                                                | 62                |                                                                                                                                                                                                                                                                              | 23       | Hello World      |
| AVERAGE   | values_as_array                                       | "=AVERAGE(F4:F14)"                                        | 46.92307692307692 | Synonym: ?AVG                                                                                                                                                                                                                                                                | 45       | True             |
| CEILING   | numbers_as_array                                      | "=CEILING(F4:F14)"                                        | 6,21E+016         |                                                                                                                                                                                                                                                                              | 62       | False            |
| COUNT     | html_as_string                                        | "=COUNT(F2:F14)"                                          | 13                |                                                                                                                                                                                                                                                                              | 108      | To High          |
| DAYSFROM  | url_as_string                                         | "=DAYSFROM(2009,4,15)"                                    | -11               |                                                                                                                                                                                                                                                                              | 200      | To Low           |
| DOLLAR    | numbers_as_array                                      | "=DOLLAR(F13)"                                            | \$55.00           |                                                                                                                                                                                                                                                                              | 36       | Perfect          |
| FALSE     |                                                       | "=IF(F4 < 100, TRUE(), FALSE())"                          | TRUE              |                                                                                                                                                                                                                                                                              | 17       | number           |
| FIXED     | number,<br>decimals,<br>noCommas?                     | "=FIXED(F4+F14)"                                          | 41.00             | Two decimal places                                                                                                                                                                                                                                                           | 99       | numbers_as_array |
| FLOOR     | numbers_as_array                                      | "=FLOOR(F4-F5)"                                           | -46               | Synonym: INT                                                                                                                                                                                                                                                                 | 100      | values_as_array  |
| HYPERLINK |                                                       | "=HYPERLINK("http://www.jquery.com", "jQuery's website")" | jQuery's website  |                                                                                                                                                                                                                                                                              | -100     | html_as_string   |
| IF        | IF(logical_test,<br>value_if_true,<br>value_if_false) | "=IF(F12 < 100, TRUE(), FALSE())"                         | TRUE              | Can have nested IF functions.<br>The url can be sensitive to numbers. Also, on initial load, because the image doesn't really have a size, the outerheight can be distorted. An easy way to offset this is to have some text in front of it that's taller than the image :). | -14      | url_as_string    |
| IMG       |                                                       | "=IMG("http://ui.jquery.com/images/logo.gif")"            |                   |                                                                                                                                                                                                                                                                              | 55       | values           |
| MAX       | values_as_array                                       | "=MAX(F3:F13)"                                            | 200               |                                                                                                                                                                                                                                                                              | -21      |                  |
| MIN       | values_as_array                                       | "=MIN(F3:F13)"                                            | -100              |                                                                                                                                                                                                                                                                              |          |                  |
| N         | numbers_as_array                                      | "=N(F3)"                                                  | 45                |                                                                                                                                                                                                                                                                              |          |                  |

|                        |                                                            |                                                                    |                                                                                                                 |
|------------------------|------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| PI                     | "=PI()"                                                    | 3.141592653589793                                                  | If you use<br>"=PI" it will<br>return the<br>actual function<br>as text, which<br>is incorrect.<br>Use "=PI()". |
| TODAY                  | "=TODAY()"                                                 | Wed Sep 15 2010<br>14:32:35 GMT-0400<br>(Eastern Daylight<br>Time) |                                                                                                                 |
| TRUE                   | "=TRUE()    FALSE()"                                       | TRUE                                                               |                                                                                                                 |
| SUM                    | values_as_array<br>"=SUM(F2:F13)"                          | 631                                                                |                                                                                                                 |
| ROUND                  | numbers_as_array<br>"=ROUND(1.6)"                          | 2                                                                  |                                                                                                                 |
| RAND                   | "=RAND()"                                                  | 0.2405688383833392                                                 | Synonym: RND                                                                                                    |
| Cell Navigation Result |                                                            | Dependancy                                                         | Synonym                                                                                                         |
| Left Arrow             | Active cell moves left if possible.                        | jQuery.sheet.evt.cellClick()                                       | JS.evt.cellClick()                                                                                              |
| Right Arrow            | Active cell moves right if possible.                       | jQuery.sheet.evt.cellClick()                                       | JS.evt.cellClick()                                                                                              |
| Up Arrow               | Active cell moves up if possible.                          | jQuery.sheet.evt.cellClick()                                       | JS.evt.cellClick()                                                                                              |
| Down Arrow             | Active cell moves down if possible.                        | jQuery.sheet.evt.cellClick()                                       | JS.evt.cellClick()                                                                                              |
| Escape                 | Active cell is removed from focus.                         | jQuery.sheet.evt.cellEditAbandon()                                 | JS.evt.cellEditAbandon()                                                                                        |
| Enter                  | Starts in-place edit / Active cell moves down if possible. | jQuery.sheet.evt.formulaKeyDown()                                  | JS.evt.formulaKeyDown()                                                                                         |
| Ctrl + Enter           | Ends in-place edit / Active cell moves down if possible.   | jQuery.sheet.evt.formulaKeyDown()                                  | JS.evt.formulaKeyDown()                                                                                         |
| Tab                    | Active cell moves right if possible.                       | jQuery.sheet.evt.cellClick()                                       | JS.evt.cellClick()                                                                                              |



| Function       | Arguments                      | Example             | Results | Additional Information | Sample # | Sample Text |
|----------------|--------------------------------|---------------------|---------|------------------------|----------|-------------|
| FACTORIAL      | number                         | '=FACTORIAL(5)'     | 120     |                        |          |             |
| COMBINATION    | number, number                 | '=COMBINATION(7,5)' | 21      |                        |          |             |
| PERMUTATION    | number, number                 | '=PERMUTATION(7,5)' | 2520    |                        |          |             |
| GAMMA          | number                         |                     |         |                        |          |             |
| PRECISION      | num, precision                 |                     |         |                        |          |             |
| MINIMUM        | array                          |                     |         |                        |          |             |
| MODE           | array                          |                     |         |                        |          |             |
| MAXIMUM        | array                          |                     |         |                        |          |             |
| MEAN           | array                          |                     |         |                        |          |             |
| SUM            | array                          |                     |         |                        |          |             |
| MEDIAN         | array                          |                     |         |                        |          |             |
| QUARTILES      | array                          |                     |         |                        |          |             |
| VARIANCE       | array                          |                     |         |                        |          |             |
| MEANDEV        | array                          |                     |         |                        |          |             |
| STDEV          | array                          |                     |         |                        |          |             |
| COVARIANCE     | array, array                   |                     |         |                        |          |             |
| CORR_COEFF     | array, array                   |                     |         |                        |          |             |
| UNIFORMCDF     | number, number, number         |                     |         |                        |          |             |
| BINOMIAL       | number, number, number         |                     |         |                        |          |             |
| BIONOMIALCDF   | num, num, num                  |                     |         |                        |          |             |
| NEGBIN         | num, num, num                  |                     |         |                        |          |             |
| NEGBINCDF      | N, m, n, x                     |                     |         |                        |          |             |
| HYPGEOM        | N, m, n, x                     |                     |         |                        |          |             |
| HYPGEOMCDF     | N, m, n, x                     |                     |         |                        |          |             |
| EXPONENTIALCDF | l, x                           |                     |         |                        |          |             |
| POISSON        | l, x                           |                     |         |                        |          |             |
| POISSONCDF     | l, x                           |                     |         |                        |          |             |
| NORMCDF        | u, s, t                        |                     |         |                        |          |             |
| LINEAR_REQ_EQ  | array, array                   |                     |         |                        |          |             |
| EXP_REG_EQ     | array, array                   |                     |         |                        |          |             |
| SECANTMETHOD   | func, min, max, error, maxiter |                     |         |                        |          |             |
| FIVEPT         | func, x, h                     |                     |         |                        |          |             |
| FCRIT          | f, a, b                        |                     |         |                        |          |             |
| ASR            | f, a, b, precision             |                     |         |                        |          |             |

# Usage -&nbsp;Graphs

For the time being, see this external documentation page:

<https://github.com/Spreadsheets/WickedGrid>

See also:

| Function               | Arguments                                                  | Example                                                   | Result                                                    | Additional Information                                                                                                                                                                                                                                                           | Sample # | Sample Text      |
|------------------------|------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------|
| ABS                    | numbers_as_array                                           | "=ABS(F4)"                                                | 62                                                        |                                                                                                                                                                                                                                                                                  | 23       | Hello World      |
| AVERAGE                | values_as_array                                            | "=AVERAGE(F4:F14)"                                        | 46.92307692307692                                         | Synonym: ?AVG                                                                                                                                                                                                                                                                    | 45       | True             |
| CEILING                | numbers_as_array                                           | "=CEILING(F4:F14)"                                        | 6,21E+016                                                 |                                                                                                                                                                                                                                                                                  | 62       | False            |
| COUNT                  | html_as_string                                             | "=COUNT(F2:F14)"                                          | 13                                                        |                                                                                                                                                                                                                                                                                  | 108      | To High          |
| DAYSFROM               | ur l_as_string                                             | "=DAYSFROM(2009,4,15)"                                    | -11                                                       |                                                                                                                                                                                                                                                                                  | 200      | To Low           |
| DOLLAR                 | numbers_as_array                                           | "=DOLLAR(F13)"                                            | \$55.00                                                   |                                                                                                                                                                                                                                                                                  | 36       | Perfect          |
| FALSE                  |                                                            | "=IF(F4 &lt; 100, TRUE(), FALSE())"                       | TRUE                                                      |                                                                                                                                                                                                                                                                                  | 17       | number           |
| FIXED                  | number,<br>decimals,<br>noCommas?                          | "=FIXED(F4+F14)"                                          | 41.00                                                     | Two decimal places                                                                                                                                                                                                                                                               | 99       | numbers_as_array |
| FLOOR                  | numbers_as_array                                           | "=FLOOR(F4-F5)"                                           | -46                                                       | Synonym: INT                                                                                                                                                                                                                                                                     | 100      | values_as_array  |
| HYPERLINK              |                                                            | "=HYPERLINK("http://www.jquery.com", "jQuery's website")" | jQuery's website                                          |                                                                                                                                                                                                                                                                                  | -100     | html_as_string   |
| IF                     | IF(logical_test, value_if_true, value_if_false)            | "=IF(F12 &lt; 100, TRUE(), FALSE())"                      | TRUE                                                      | Can have nested IF functions.<br><br>The url can be sensitive to numbers. Also, on initial load, because the image doesn't really have a size, the outerheight can be distorted. An easy way to offset this is to have some text in front of it that's taller than the image :). | -14      | ur l_as_string   |
| IMG                    |                                                            | "=IMG("http://ui.jquery.com/images/logo.gif")"            |                                                           |                                                                                                                                                                                                                                                                                  | 55       | values           |
| MAX                    | values_as_array                                            | "=MAX(F3:F13)"                                            | 200                                                       |                                                                                                                                                                                                                                                                                  | -21      |                  |
| MIN                    | values_as_array                                            | "=MIN(F3:F13)"                                            | -100                                                      |                                                                                                                                                                                                                                                                                  |          |                  |
| N                      | numbers_as_array                                           | "=N(F3)"                                                  | 45                                                        |                                                                                                                                                                                                                                                                                  |          |                  |
| PI                     |                                                            | "=PI()"                                                   | 3.141592653589793                                         | If you use "=PI" it will return the actual function as text, which is incorrect. Use "=PI()".                                                                                                                                                                                    |          |                  |
| TODAY                  |                                                            | "=TODAY()"                                                | Wed Sep 15 2010 14:32:35 GMT-0400 (Eastern Daylight Time) |                                                                                                                                                                                                                                                                                  |          |                  |
| TRUE                   |                                                            | "=TRUE()    FALSE()"                                      | TRUE                                                      |                                                                                                                                                                                                                                                                                  |          |                  |
| SUM                    | values_as_array                                            | "=SUM(F2:F13)"                                            | 631                                                       |                                                                                                                                                                                                                                                                                  |          |                  |
| ROUND                  | numbers_as_array                                           | "=ROUND(1.6)"                                             | 2                                                         |                                                                                                                                                                                                                                                                                  |          |                  |
| RAND                   |                                                            | "=RAND()"                                                 | 0.2405688383833392                                        | Synonym: RND                                                                                                                                                                                                                                                                     |          |                  |
| Cell Navigation Result |                                                            |                                                           | Dependancy                                                | Synonym                                                                                                                                                                                                                                                                          |          |                  |
| Left Arrow             | Active cell moves left if possible.                        |                                                           | jQuery.sheet.evt.cellClick()                              | jS.evt.cellClick()                                                                                                                                                                                                                                                               |          |                  |
| Right Arrow            | Active cell moves right if possible.                       |                                                           | jQuery.sheet.evt.cellClick()                              | jS.evt.cellClick()                                                                                                                                                                                                                                                               |          |                  |
| Up Arrow               | Active cell moves up if possible.                          |                                                           | jQuery.sheet.evt.cellClick()                              | jS.evt.cellClick()                                                                                                                                                                                                                                                               |          |                  |
| Down Arrow             | Active cell moves down if possible.                        |                                                           | jQuery.sheet.evt.cellClick()                              | jS.evt.cellClick()                                                                                                                                                                                                                                                               |          |                  |
| Escape                 | Active cell is removed from focus.                         |                                                           | jQuery.sheet.evt.cellEditAbandon()                        | jS.evt.cellEditAbandon()                                                                                                                                                                                                                                                         |          |                  |
| Enter                  | Starts in-place edit / Active cell moves down if possible. |                                                           | jQuery.sheet.evt.formulaKeyDown()                         | jS.evt.formulaKeyDown()                                                                                                                                                                                                                                                          |          |                  |

|              |                                                                                   |       |                                                           |       |      |
|--------------|-----------------------------------------------------------------------------------|-------|-----------------------------------------------------------|-------|------|
| Ctrl + Enter | Ends in-place edit / Active cell moves down if possible.                          |       | jQuery.sheet.evt.formulaKeyDown() JS.evt.formulaKeyDown() |       |      |
| Tab          | Active cell moves right if possible.                                              |       | jQuery.sheet.evt.cellClick() JS.evt.cellClick()           |       |      |
| Chart Type   | Example                                                                           | Chart | Data                                                      | Month | Year |
| Vertical Bar |  |       |                                                           |       |      |

| Function       | Arguments                      | Example             | Results | Additional Information | Sample # | Sample Text |
|----------------|--------------------------------|---------------------|---------|------------------------|----------|-------------|
| FACTORIAL      | number                         | '=FACTORIAL(5)'     | 120     |                        |          |             |
| COMBINATION    | number, number                 | '=COMBINATION(7,5)' | 21      |                        |          |             |
| PERMUTATION    | number, number                 | '=PERMUTATION(7,5)' | 2520    |                        |          |             |
| GAMMA          | number                         |                     |         |                        |          |             |
| PRECISION      | num, precision                 |                     |         |                        |          |             |
| MINIMUM        | array                          |                     |         |                        |          |             |
| MODE           | array                          |                     |         |                        |          |             |
| MAXIMUM        | array                          |                     |         |                        |          |             |
| MEAN           | array                          |                     |         |                        |          |             |
| SUM            | array                          |                     |         |                        |          |             |
| MEDIAN         | array                          |                     |         |                        |          |             |
| QUARTILES      | array                          |                     |         |                        |          |             |
| VARIANCE       | array                          |                     |         |                        |          |             |
| MEANDEV        | array                          |                     |         |                        |          |             |
| STDEV          | array                          |                     |         |                        |          |             |
| COVARIANCE     | array, array                   |                     |         |                        |          |             |
| CORR_COEFF     | array, array                   |                     |         |                        |          |             |
| UNIFORMCDF     | number, number, number         |                     |         |                        |          |             |
| BINOMIAL       | number, number, number         |                     |         |                        |          |             |
| BIONOMIALCDF   | num, num, num                  |                     |         |                        |          |             |
| NEGBIN         | num, num, num                  |                     |         |                        |          |             |
| NEGBINCDF      | N, m, n, x                     |                     |         |                        |          |             |
| HYPGEOM        | N, m, n, x                     |                     |         |                        |          |             |
| HYPGEOMCDF     | N, m, n, x                     |                     |         |                        |          |             |
| EXPONENTIALCDF | l, x                           |                     |         |                        |          |             |
| POISSON        | l, x                           |                     |         |                        |          |             |
| POISSONCDF     | l, x                           |                     |         |                        |          |             |
| NORMCDF        | u, s, t                        |                     |         |                        |          |             |
| LINEAR_REQ_EQ  | array, array                   |                     |         |                        |          |             |
| EXP_REG_EQ     | array, array                   |                     |         |                        |          |             |
| SECANTMETHOD   | func, min, max, error, maxiter |                     |         |                        |          |             |
| FIVEPT         | func, x, h                     |                     |         |                        |          |             |
| FCRIT          | f, a, b                        |                     |         |                        |          |             |
| ASR            | f, a, b, precision             |                     |         |                        |          |             |

## From Here

- [PluginSheet](#)
- [Spreadsheet Functionality](#)
- [Spreadsheet Interface](#)
- [Spreadsheet Graphics and Charts](#)
- [jQuery](#)
- [Spreadsheet jq](#)

## Alias

- [Sheet](#)
- [TikiSheet](#)
- [Tiki Sheet](#)
- [Spreadsheets](#)