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

Spreadsheet using jQuery.sheet

The Spreadsheet feature can be accessed through the jquery.sheet interface, added to Tiki since version 5.0

A review of jQuery.Sheet

Light years beyond other solutions at least as first impression, jQuery.sheet by Robert Plummer is a really wonderful library.

Usage

When adding a new spreadsheet, the interface is as usual in Tiki5: you have the option to allow wiki parsing of wiki content inside the spreadsheet, plus defining some parent relationship with other spreadsheets:

When editing the spreadsheet, you can add more rows and columns, add content to them, move among the cells using the cursor keys, etc. If wiki parsing was enabled for the spreadsheet, then you can add any wiki syntax to the cell (including Wiki plugins!)

That wiki markup will be parsed when saved.

New sheets can be added when clickling at the plus sign ("+") at the bottom of the spreadsheet.

Then, this new sheet is added to the workbook.

Spreadsheet Help

<table>
<thead>
<tr>
<th>Function</th>
<th>Arguments</th>
<th>Example</th>
<th>Result</th>
<th>Additional Information</th>
<th>Sample #</th>
<th>Sample Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABS</td>
<td>numbers_as_array</td>
<td>&quot;=ABS(F4)&quot;</td>
<td>62</td>
<td></td>
<td>23</td>
<td>Hello World</td>
</tr>
<tr>
<td>AVERAGE</td>
<td>values_as_array</td>
<td>&quot;=AVERAGE(F4:F14)&quot;</td>
<td>46.92307692307692</td>
<td>Synonym:?AVG</td>
<td>45</td>
<td>True</td>
</tr>
<tr>
<td>CEILING</td>
<td>numbers_as_array</td>
<td>&quot;=CEILING(F4:F14)&quot;</td>
<td>6,21E+016</td>
<td></td>
<td>62</td>
<td>False</td>
</tr>
<tr>
<td>COUNT</td>
<td>html_as_string</td>
<td>&quot;=COUNT(F2:F14)&quot;</td>
<td>13</td>
<td></td>
<td>108</td>
<td>To High</td>
</tr>
<tr>
<td>DAYSFROM</td>
<td>url_as_string</td>
<td>&quot;=DAYSFROM(2009,4,15)&quot;</td>
<td>-11</td>
<td></td>
<td>200</td>
<td>To Low</td>
</tr>
</tbody>
</table>
### DOLLAR

```excel
=DOLLAR(F13)
```

**Value:** $55.00

**Data Type:** number

### FALSE

```excel
=IF(F4 < 100, TRUE(), FALSE())
```

**Value:** TRUE

### FIXED

```excel
=FIXED(F4+F14)
```

**Value:** 41.00

### FLOOR

```excel
=FLOOR(F4-F5)
```

**Value:** -46

### HYPERLINK

```excel
=HYPERLINK("http://www.jquery.com", "jQuery's website")
```

**Value:** jQuery's website

### IF

```excel
=IF(F12 < 100, TRUE(), FALSE())
```

**Value:** TRUE

### IMG

```excel
=IMG("http://ui.jquery.com/images/logo.gif")
```

**Value:** 55 values

### MAX

```excel
=MAX(F3:F13)
```

**Value:** 200

### MIN

```excel
=MIN(F3:F13)
```

**Value:** -100

### N

```excel
=N(F3)
```

**Value:** 45

### PI

```excel
=PI()
```

**Value:** 3.141592653589793

### TODAY

```excel
=TODAY()
```

**Value:** Wed Sep 15 2010 14:32:35 GMT-0400

### TRUE

```excel
=TRUE() || FALSE()
```

**Value:** TRUE

### SUM

```excel
=SUM(F2:F13)
```

**Value:** 631

### ROUND

```excel
=ROUND(1.6)
```

**Value:** 2

### RAND

```excel
=RAND()
```

**Value:** 0.2405688383833392

### Cell Navigation

<table>
<thead>
<tr>
<th>Action</th>
<th>Description</th>
<th>Dependancy</th>
<th>Synonym</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Arrow</td>
<td>Active cell moves left if possible.</td>
<td>jQuery.sheet.evt.cellClick()</td>
<td>jS.evt.cellClick()</td>
</tr>
<tr>
<td>Right Arrow</td>
<td>Active cell moves right if possible.</td>
<td>jQuery.sheet.evt.cellClick()</td>
<td>jS.evt.cellClick()</td>
</tr>
<tr>
<td>Up Arrow</td>
<td>Active cell moves up if possible.</td>
<td>jQuery.sheet.evt.cellClick()</td>
<td>jS.evt.cellClick()</td>
</tr>
<tr>
<td>Down Arrow</td>
<td>Active cell moves down if possible.</td>
<td>jQuery.sheet.evt.cellClick()</td>
<td>jS.evt.cellClick()</td>
</tr>
<tr>
<td>Escape</td>
<td>Active cell is removed from focus.</td>
<td>jQuery.sheet.evt.cellEditAbandon()</td>
<td>jS.evt.cellEditAbandon()</td>
</tr>
<tr>
<td>Enter</td>
<td>Starts in-place edit / Active cell moves down if possible.</td>
<td>jQuery.sheet.evt.formulaKeyDown()</td>
<td>jS.evt.formulaKeyDown()</td>
</tr>
<tr>
<td>Ctrl + Enter</td>
<td>Ends in-place edit / Active cell moves down if possible.</td>
<td>jQuery.sheet.evt.formulaKeyDown()</td>
<td>jS.evt.formulaKeyDown()</td>
</tr>
<tr>
<td>Tab</td>
<td>Active cell moves right if possible.</td>
<td>jQuery.sheet.evt.cellClick()</td>
<td>jS.evt.cellClick()</td>
</tr>
</tbody>
</table>

### Chart

<table>
<thead>
<tr>
<th>Type</th>
<th>Example</th>
<th>Chart Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data</td>
<td>Month</td>
<td>Year</td>
</tr>
</tbody>
</table>
Inputs are for capturing fixed data, such as a drop down list (INPUT.SELECT), or a checkbox (INPUT.CHECKBOX)

<table>
<thead>
<tr>
<th>Input Type</th>
<th>Example</th>
<th>Data Type</th>
<th>Data String</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select List</td>
<td>&quot;=INPUT.SELECT(D3:D10)&quot;</td>
<td>Number</td>
<td>Lorem</td>
</tr>
</tbody>
</table>
### Radio List

```
"=INPUT.RADIO(E3:E10)"
```

<table>
<thead>
<tr>
<th>Lorem Proin</th>
<th>Alium Quisque</th>
<th>Vivamus</th>
<th>Etiam Donec</th>
</tr>
</thead>
<tbody>
<tr>
<td>-20</td>
<td>Proin</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Checkbox

```
"=INPUT.CHECKBOX(E3)"
```

<table>
<thead>
<tr>
<th>Lorem</th>
<th>123</th>
<th>Alium</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Get Select List Value

```
"=INPUT.SELECTVAL(C3)"
```

<table>
<thead>
<tr>
<th>4</th>
<th>123</th>
<th>Quisque</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Get Radio List Value

```
"=INPUT.RADIOVAL(C4)"
```

<table>
<thead>
<tr>
<th>Donec</th>
<th>4</th>
<th>Alium</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Get Checkbox Value

```
"=INPUT.CHECKBOXVAL(C5)"
```

<table>
<thead>
<tr>
<th>Lorem</th>
<th>534456</th>
<th>Vivamus</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Detect if Checkbox is Checked

```
"=INPUT.ISCHECKED(C5)"
```

<table>
<thead>
<tr>
<th>FALSE</th>
<th>3</th>
<th>Etiam</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Function Arguments Example Results Additional Information Sample # Sample Text

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

And

```
{sheet(id=2 simple=y width="100%" height="100%" subsheets=n})
```

<table>
<thead>
<tr>
<th>Function</th>
<th>Arguments</th>
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<td>numbers_as_array</td>
<td>'=ABS(F4)'</td>
<td>62</td>
<td></td>
<td>23</td>
<td>Hello World</td>
</tr>
<tr>
<td>AVERAGE</td>
<td>values_as_array</td>
<td>'=AVERAGE(F4:F14)'</td>
<td>46.92307692307692</td>
<td>Synonym:?AVG</td>
<td>45</td>
<td>True</td>
</tr>
</tbody>
</table>

```
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, decimals, 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 (logical test, value_if_true, value_if_false) "=IF(F12 < 100, TRUE(), FALSE())" TRUE Can have nested IF functions.
IMG html_as_string "=IMG("http://ui.jquery.com/images/logo.gif")" 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 :).
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 55 values
TODAY "=TODAY()" Wed Sep 15 2010 14:32:35 GMT-0400 (Eastern Daylight Time)
TRUE "=TRUE() || FALSE()" TRUE
SUM values_as_array "=SUM(F3:F13)" 631
ROUND numbers_as_array "=ROUND(1.6)" 2
RAND "=RAND()" 0.240568838333392 Synonym: RND

References:

  updated link to jQuery.sheet
- Jquery
- Spreadsheet
- Tiki5

Tiki6 features
A lot of work has happened from Tiki5 to Tiki6,

- Fill down, fill right
  - including formulas which update
- colors of cell and text
- Copy-paste from Excel
Make cells referencing variable names
  - Done - through use of calculations engine function CELLREF (example: "=CELLREF('mycell')"), but you must first set the cell's name using jQuery.sheet.instance.setCellRef()

Remember columns size

Added startup option "minSize: {rows: 15, cols: 5}" and fn "checkMinSize" that will automatically add columns/rows

Merge & unmerge cell

Better error reporting (ex.: if a formula has a loop)

Uses AJAX for smoother user experience

**PluginSheet**
  - Show a range of cells (or single cell). Default shows all. e.g. "D1:F3" (or "e14:e14")
    - This allows using in a wiki page the result from a spreadsheet cell! (that's going to be very powerful for dynamic reports in wiki pages, not only of graphs but also from specific results from calculations). Budgets for projects, shown in wiki pages dynamically, etc. Templates of invoices, etc.
  - Now handles multisheet

The project plugin "jsanalysis" was dropped due to license issues, but it has been migrated those same functions to a new library for sheet: "jquery.sheet.advancedfn". Thus, we can now use this in the future for more advanced functions used in sheet for those users who need them. List of functions included:

```javascript
FACTORIAL: jQuery.factorial,
COMBINATION: jQuery.combination,
PERMUTATION: jQuery.permutation,
GAMMA: jQuery.gamma,
PRECISION: jQuery.precision,
MINIMUM: jQuery.minimum,
MAXIMUM: jQuery.maximum,
MEAN: jQuery.mean,
SUM: jQuery.sum,
MODE: jQuery.mode,
MEDIAN: jQuery.median,
QUARTILES: jQuery.quartiles,
VARIANCE: jQuery.variance,
MEANDEV: jQuery.meandev,
STDEV: jQuery.stdev,
COVARIANCE: jQuery.covariance,
CORR_COEFF: jQuery.corr_coeff,
UNIFORM: jQuery.uniform,
BINOMIAL: jQuery.binomial,
BINOMIALCDF: jQuery.binomialcdf,
NEGBIN: jQuery.negbin,
NEGBINCDF: jQuery.negbincdf,
HYPGEOM: jQuery.hypgeom,
HYPGEOMCDF: jQuery.hypgeomcdf,
EXPONENTIALCDF: jQuery.exponentialcdf,
POISSON: jQuery.poisson,
POISSONCDF: jQuery.poissoncdf,
NORMCDF: jQuery.normcdf,
LINEAR_REG_EQ: jQuery.linear_reg_eq,
SECANTMETHOD: jQuery.secantmethod,
FIVEPT: jQuery.fivept,
```
History: sheet differences shown

Since Tiki6 spreadsheets versions can be compared showing easily differences between any pair of versions: pink background for deleted content, green background when new content has been added, and prepending a "+" sign for the new text added, and a negative "-" sign for text deleted.

Example:

Sheet in edit mode, showing the new toolbar specific from the spreadsheet feature:

When you click in the "History" button below each spreadsheet when it is in view mode, you are shown a table to choose which versions you want to compare:

Then, after you select any pair, you can click on "compare", and you can see the differences between those two versions of the same spreadsheet:

Note that scrollbars will be locked together to ease navigation on them both synchronized on the same columns at the same time with a single scrollbar movement.

New syntax for formulas

You can use some formulas like in OOo Calc or MS Excel, using slightly different syntax (because the JQ Spreadsheet is using Javascript for the formulas):

```javascript
=IF(E10=="Y",695,IF(E10=="N",495,"ERROR"))
```

or like this

```javascript
=IF(SHEET1:E10=="N",0.08,IF(SHEET1:E10="Y",0.25,"ERROR"))
```

Aliases:

- Spreadsheet Jquery | Spreadsheet jquery.sheet | jquery.sheet