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 clicking 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><code>=ABS(F4)</code></td>
<td>62</td>
<td></td>
<td>23</td>
<td>Hello World</td>
</tr>
<tr>
<td>AVERAGE</td>
<td>values_as_array</td>
<td><code>=AVERAGE(F4:F14)</code></td>
<td>46.92307692307692</td>
<td>Synonym: ?AVG</td>
<td>45</td>
<td>True</td>
</tr>
<tr>
<td>CEILING</td>
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<td></td>
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<td>False</td>
</tr>
<tr>
<td>COUNT</td>
<td>html_as_string</td>
<td><code>=COUNT(F2:F14)</code></td>
<td>13</td>
<td></td>
<td>108</td>
<td>To High</td>
</tr>
<tr>
<td>DAYSFROM</td>
<td>url_as_string</td>
<td><code>=DAYSFROM(2009,4,15)</code></td>
<td>-11</td>
<td></td>
<td>200</td>
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<td>DOLLAR</td>
<td>numbers_as_array</td>
<td><code>=DOLLAR(F13)</code></td>
<td>$55.00</td>
<td></td>
<td>36</td>
<td>Perfect</td>
</tr>
<tr>
<td>FALSE</td>
<td></td>
<td><code>=IF(F4 &lt; 100, TRUE(), FALSE())</code></td>
<td>TRUE</td>
<td></td>
<td>17</td>
<td>number</td>
</tr>
<tr>
<td>FIXED</td>
<td>number, decimals, noCommas?</td>
<td><code>=FIXED(F4+F14)</code></td>
<td>41.00</td>
<td>Two decimal places</td>
<td>99</td>
<td>numbers_as_array</td>
</tr>
<tr>
<td>FLOOR</td>
<td>numbers_as_array</td>
<td><code>=FLOOR(F4-F5)</code></td>
<td>-46</td>
<td>Synonym: INT</td>
<td>100</td>
<td>values_as_array</td>
</tr>
<tr>
<td>HYPERLINK</td>
<td></td>
<td><code>=HYPERLINK(&quot;http://www.jquery.com&quot;, &quot;jQuery's website&quot;)</code></td>
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<td>-14</td>
<td>url_as_string</td>
</tr>
<tr>
<td>IF</td>
<td>IF(logical_test, value if true, value if false)</td>
<td><code>=IF(F12 &lt; 100, TRUE(), FALSE())</code></td>
<td>TRUE</td>
<td></td>
<td>55</td>
<td>values</td>
</tr>
<tr>
<td>IMG</td>
<td></td>
<td><code>=IMG(&quot;http://ui.jquery.com/images/logo.gif&quot;)</code></td>
<td></td>
<td></td>
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<td>MAX</td>
<td>values_as_array</td>
<td><code>=MAX(F3:F13)</code></td>
<td>200</td>
<td></td>
<td>21</td>
<td></td>
</tr>
<tr>
<td>MIN</td>
<td>values_as_array</td>
<td><code>=MIN(F3:F13)</code></td>
<td>-100</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>N</td>
<td>numbers_as_array</td>
<td><code>=N(F3)</code></td>
<td>45</td>
<td></td>
<td></td>
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If you use "=PI" it will return the actual function as text, which is incorrect. Use "=PI()".

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()
jQuery.sheet.evt.cellClick()
Right Arrow
Active cell moves right if possible.
jQuery.sheet.evt.cellClick()
jQuery.sheet.evt.cellClick()
Up Arrow
Active cell moves up if possible.
jQuery.sheet.evt.cellClick()
jQuery.sheet.evt.cellClick()
Down Arrow
Active cell moves down if possible.
jQuery.sheet.evt.cellClick()
jQuery.sheet.evt.cellClick()
Escape
Active cell is removed from focus.
jQuery.sheet.evt.cellEditAbandon()
jQuery.sheet.evt.cellEditAbandon()
Enter
Starts in-place edit / Active cell moves down if possible.
jQuery.sheet.evt.formulaKeyDown()
jQuery.sheet.evt.formulaKeyDown()
Ctrl + Enter
Ends in-place edit / Active cell moves down if possible.
jQuery.sheet.evt.formulaKeyDown()
jQuery.sheet.evt.formulaKeyDown()
Tab
Active cell moves right if possible.
jQuery.sheet.evt.cellClick()
jQuery.sheet.evt.cellClick()

Chart
Type
Example
Chart
Data Month Year

Vertical Bar
"=BARCHART(D2:D13)"

<svg height="172" width="421" version="1.1"
xmlns="http://www.w3.org/2000/svg"><desc>Created with Raphaël</desc><defs><path d="M80,139L58,139L58,127L80,127Z" stroke="none" fill="#1751a7"></path><path d="M108,139L86,139L86,127L115,127L115,139Z" stroke="none" fill="#1751a7"></path><path d="M136,139L114,139L114,127L143,127L143,139Z" stroke="none" fill="#1751a7"></path><path d="M155,139L133,139L133,127L163,127L163,139Z" stroke="none" fill="#1751a7"></path></defs></svg>

Jan 2001

Horizontal Bar
"=HBARCHART(D2:D13)"

<svg height="148" width="421" version="1.1"

Feb 2002
Input Type | Example | Data | Data String |
--- | --- | --- | --- |
Select List | =INPUT.SELECT(D3:D10) | 34 | Lorem Proin Aliquam Vivamus |
Radio List | =INPUT.RADIO(E3:E10) | -20 | Proin |
Checkbox | =INPUT.CHECKBOX(E3) | | |
Get Select List Value | =INPUT.SELECTVAL(C3) | 4 | 123 Quisque |
Get Radio List Value | =INPUT.RADIOVAL(C4) | 4 | 123 Aliquam |
Get Checkbox Value | =INPUT.CHECKBOXVAL(C5) | Lorem | 534456 Vivamus |
Detect if Checkbox is Checked | =INPUT.ISCHECKED(C5) | FALSE | 3 Etiam |

### Function Arguments | Example | Results | Additional Information |
--- | --- | --- | --- |
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 | | | |
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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

References:

- 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:

  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,
  NEGBINCFD: 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,
  FCRIT: jQuery.fcrit,
  ASR: jQuery.asr

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):

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

or like this

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

Aliases:
- Spreadsheet Jquery | Spreadsheet jquery.sheet | jquery.sheet