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

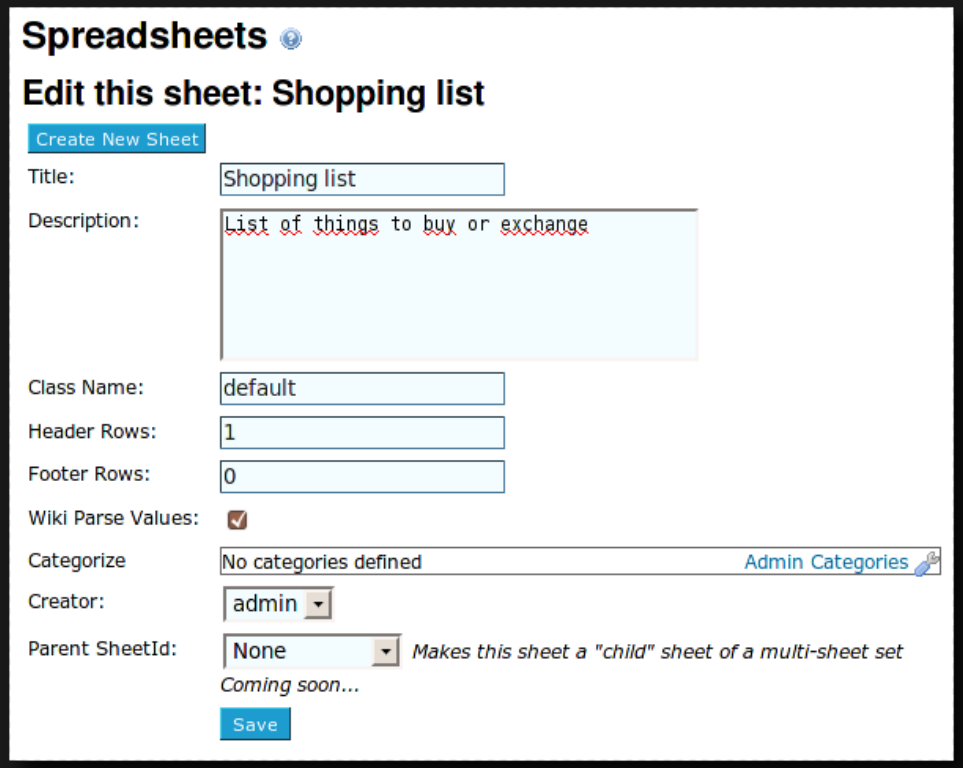
The Spreadsheet feature can be be accessed through the jquery.sheet interface, added to Tiki since version 5.0

A REVIEW OF JQUERY.SHEET

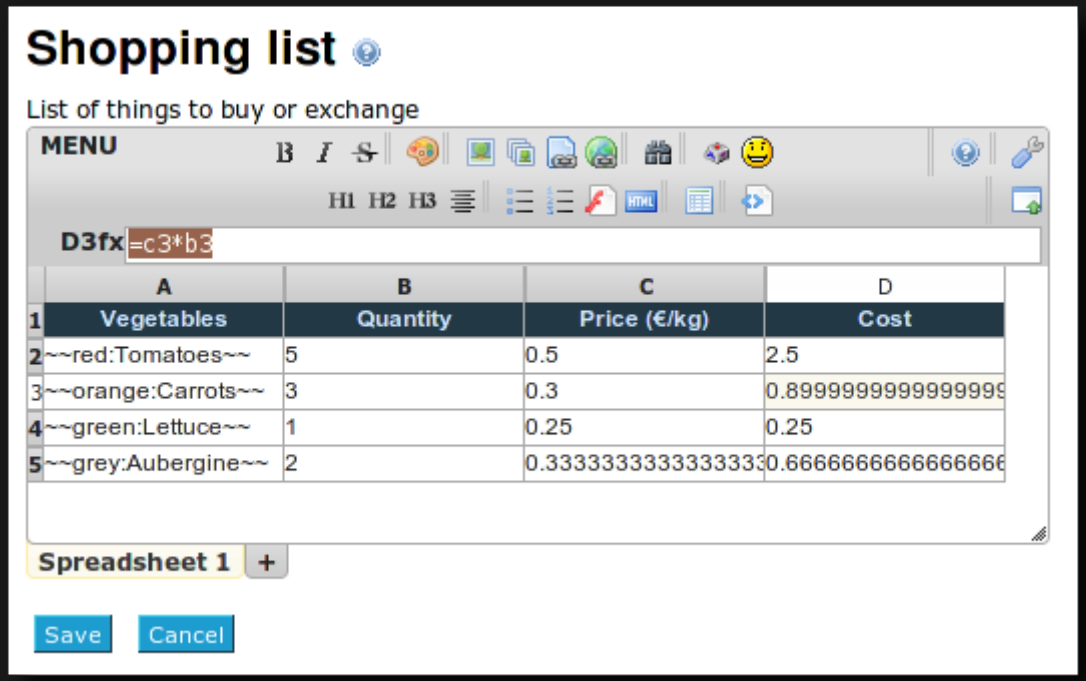
Light years beyond other solutions at least as first impression, jQuery.sheet by Robert Plummer is a really wonderful library.

USAGE

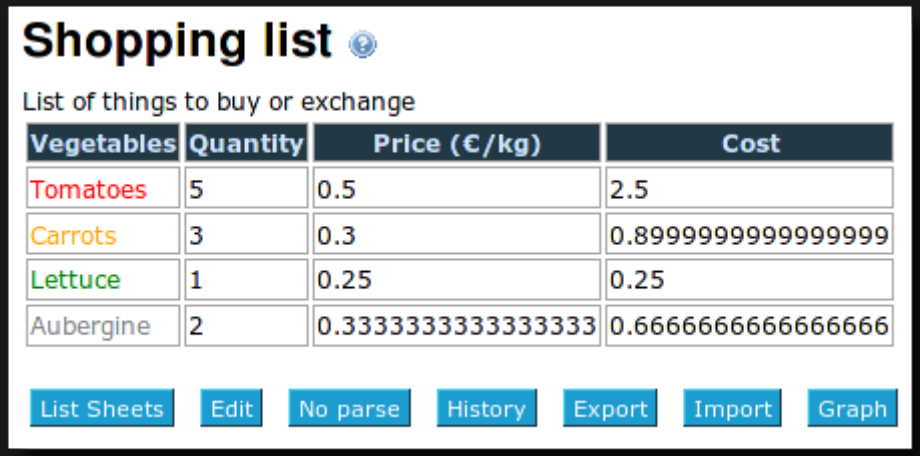
When adding a new spreadsheet, the interface is as usual in Tiki5: you have the option to allow wiki parsing of wiki content inside the spreadsheet, plus defining some parent relationship with other spreadsheets:



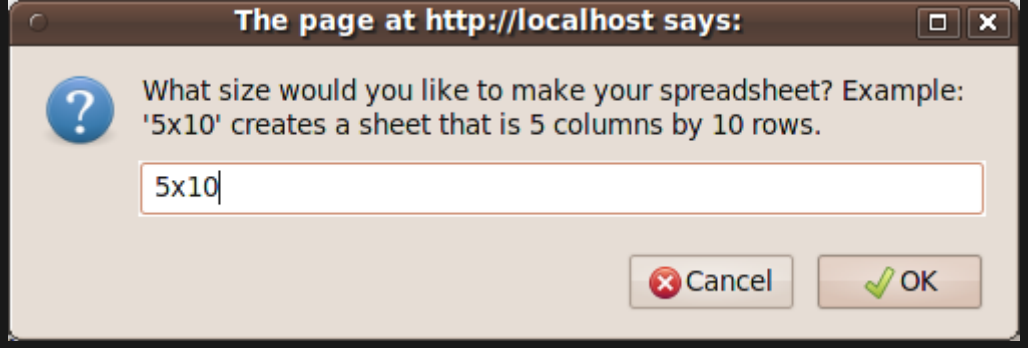
When editing the spreadsheet, you can add more rows and columns, add content to them, move among the cells using the cursor keys, etc. If wiki parsing was enabled for the spreadsheet, then you can add any wiki syntax to the cell (including Wiki plugins!)



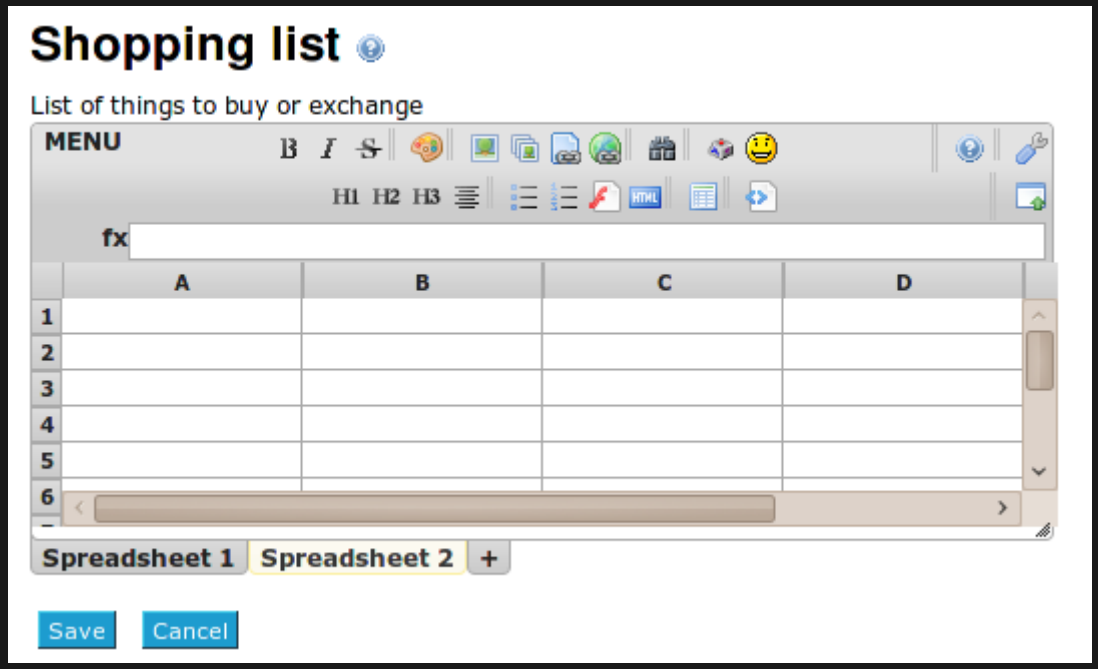
That wiki markup will be parsed when saved.



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

{sheet(id=2)}

Function	Arguments
ABS	numbers_as_array
AVERAGE	values_as_array
CEILING	numbers_as_array
COUNT	html_as_string
DAYSFROM	url_as_string
DOLLAR	numbers_as_array
FALSE	
FIXED	number, decimals, noCommas?
FLOOR	numbers_as_array
HYPERLINK	

Example

"=ABS(F4)"

"=AVERAGE(F4:F14)"

"=CEILING(F4:F14)"

"=COUNT(F2:F14)"

"=DAYSFROM(2009,4,15)"

"=DOLLAR(F13)"

"=IF(F4 < 100, TRUE(), FALSE())"

"=FIXED(F4+F14)"

"=FLOOR(F4-F5)"

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

Result

62

46.92307692307692

6,21E+016

13

-11

$55.00

TRUE

41.00

-46

jQuery's website

Additional Information

Synonym:?AVG

Two decimal places

Synonym: INT

Sample #	Sample Text
23	Hello World
45	True
62	False
108	To High
200	To Low
36	Perfect
17	number
99	numbers_as_array
100	values_as_array
-100	html_as_string

Cell Navigation

Left Arrow

Right Arrow

Up Arrow

Down Arrow

Escape

Enter

Ctrl + Enter

Tab

Result

Active cell moves left if possible.

Active cell moves right if possible.

Active cell moves up if possible.

Active cell moves down if possible.

Active cell is removed from focus.

Starts in-place edit / Active cell moves down if possible.

Ends in-place edit / Active cell moves down if possible.

Active cell moves right if possible.

Dependancy

jQuery.sheet.evt.cellClick()

jQuery.sheet.evt.cellClick()

jQuery.sheet.evt.cellClick()

jQuery.sheet.evt.cellClick()

jQuery.sheet.evt.cellEditAbandon()

jQuery.sheet.evt.formulaKeyDown()

jQuery.sheet.evt.formulaKeyDown()

jQuery.sheet.evt.cellClick()

Synonym

jS.evt.cellClick()

jS.evt.cellClick()

jS.evt.cellClick()

jS.evt.cellClick()

jS.evt.cellEditAbandon()

jS.evt.formulaKeyDown()

jS.evt.formulaKeyDown()

jS.evt.cellClick()

Chart Type Example

Chart Data Month Year

Vertical Bar "=BARCHART(D2:D13)

Function	Arguments
FACTORIAL	number
COMBINATION	number, number
PERMUTATION	number, number
GAMMA	number
PRECISION	num, precision
MINIMUM	array
MODE	array
MAXIMUM	array

Example	Results	Additional Information
'=FACTORIAL(5)'	120	
'=COMBINATION(7,5)	21	
'=PERMUTATION(7,5)	2520	

Sample # Sample Text

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

And

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

Function	Arguments
ABS	numbers_as_array
AVERAGE	values_as_array
CEILING	numbers_as_array
COUNT	html_as_string
DAYSFROM	url_as_string
DOLLAR	numbers_as_array
FALSE	

Example

"=ABS(F4)"

"=AVERAGE(F4:F14)"

"=CEILING(F4:F14)"

"=COUNT(F2:F14)"

"=DAYSFROM(2009,4,15)"

"=DOLLAR(F13)"

"=IF(F4 < 100, TRUE(), FALSE())"

Result

62

46.923076923076923

6,21E+016

13

-11

$55.00

TRUE

Additional Information

Synonym:?AVG

Sample #	Sample Text
23	Hello World
45	True
62	False
108	To High
200	To Low
36	Perfect
17	number

FIXED number, decimals, noCommas?

FLOOR numbers_as_array

HYPERLINK

IF IF(logical_test, value_if_true, value_if_false)

IMG

MAX values_as_array

MIN values_as_array

N numbers_as_array

"=FIXED(F4+F14)"

"=FLOOR(F4-F5)"

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

"=IF(F12 < 100, TRUE(), FALSE())"

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

"=MAX(F3:F13)"

"=MIN(F3:F13)"

"=N(F3)"

41.00

-46

jQuery's website

TRUE

200

-100

45

Two decimal places

Synonym: INT

Can have nested IF functions.

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 :).

99 numbers_as_array

100 values_as_array

-100 html_as_string

-14 url_as_string

55 values

-21

References:

- Jquery.sheet: http://www.visop-dev.com/jquerysheet.html

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.instancei.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,
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,
FCRIT: jQuery.fcrit,

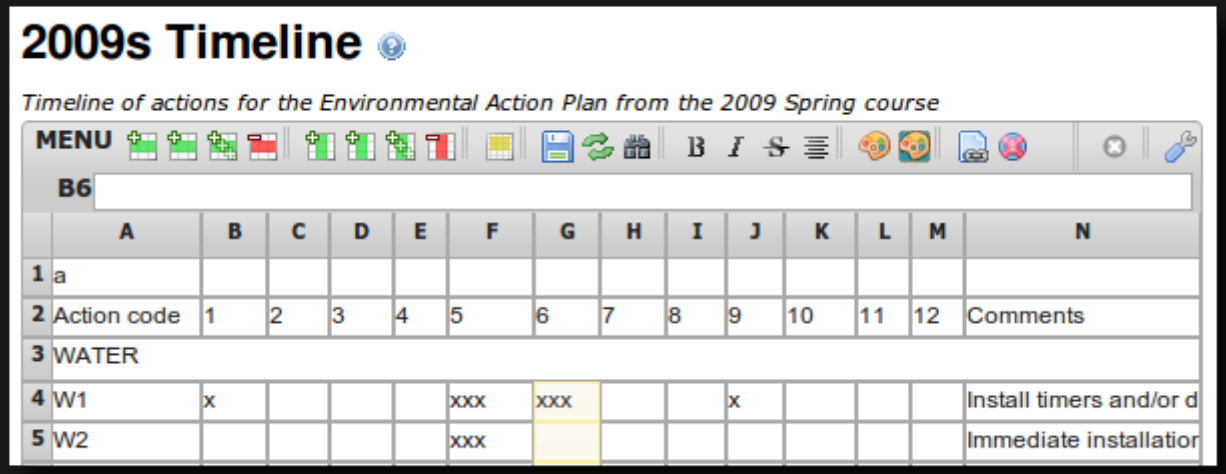
ASR: jQuery.asr

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:



2009s Timeline

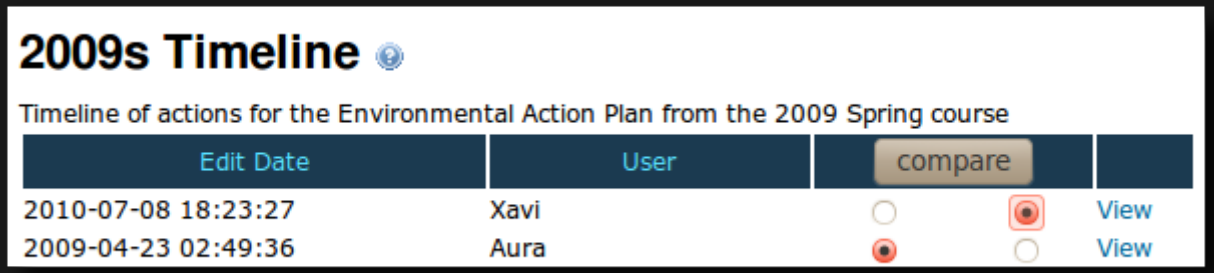
Timeline of actions for the Environmental Action Plan from the 2009 Spring course

MENU

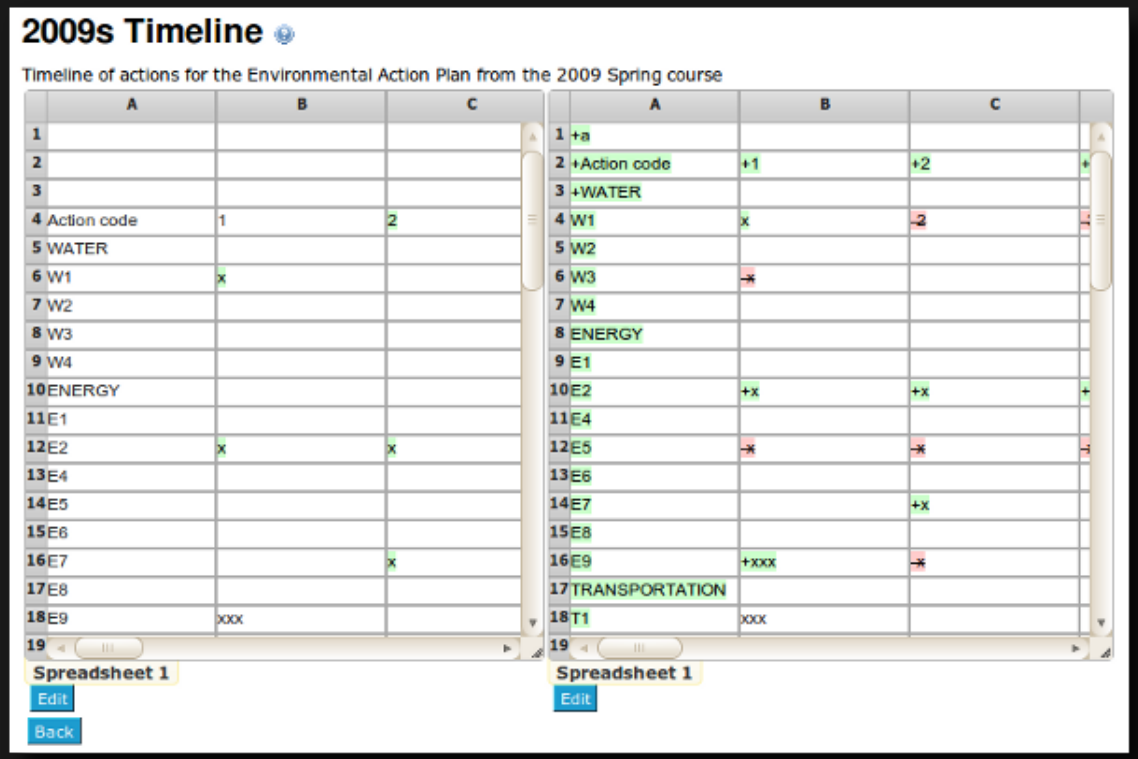
B6

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	a													
2	Action code	1	2	3	4	5	6	7	8	9	10	11	12	Comments
3	WATER													
4	W1	x				xxx	xxx			x				Install timers and/or d
5	W2					xxx								Immediate installatior

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 sme 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