Table of Contents

Table Plugin **1**
- Sorting 1
- Row spans 2
- TablePlugin Global Settings 2
- Table Attributes 2
- Examples 6
  - Use of %TABLE{...}% 6
  - Table with 4 digit year dates and no use of %TABLE{...}% 6
- TablePlugin and CSS 7
  - CSS written by TablePlugin 7
- Plugin Installation Instructions 7
- Plugin Info 7

Table Plugin

Gives extra control of table display:

- Allows sorting
- Changing table properties like border width, cell spacing and cell padding
- Changing background color and text color for header cells
- Changing background color and text color for data cells - colors can *alternate*
- Table attributes can be set and overridden in this order:
    - Default `TABLEATTRIBUTES` Plugin setting in this topic.
    - A `TABLEATTRIBUTES` preferences setting on site-level (SitePreferences) or web-level (any WebPreferences), e.g.
        - `Set TABLEATTRIBUTES = tableborder="0" cellpadding="1" ...`
    - Before a table using `%TABLE{...}%`
- Row spans

Sorting

Click on column heading text to sort by a column. Initial column will be sorted in descending order, click again to get ascending order. The type of data in the cell is determined automatically:

- Date with supported date formats View date formatsView date formats
    - Default Foswiki format
        - 31 Dec 2001 - 23:59
        - 31-Dec-2001 - 23:59
    - Foswiki format without time (defaults to 00:00)
        - 31 Dec 2001
        - 31-Dec-2001
    - Date separated by '/', '.' or '-', time with '.' or ':'
    - Date and time separated by ' ', '.' and/or '-'
        - 2001/12/31 23:59:59
        - 2001.12.31.23.59.59
        - 2001/12/31 23:59
        - 2001.12.31.23.59
        - 2001-12-31 23:59
        - 2001-12-31 - 23:59
        - 2009-1-12
        - 2009-1
        - 2009
    - ISO format
        - 2001-12-31T23:59:59
        - 2001-12-31T
    - ISO dates may have a timezone specifier, either Z or a signed difference in hh:mm format. For example:
        - 2001-12-31T23:59:59+01:00
        - 2001-12-31T23:59Z

- Number is digits, with optional decimal point
- Otherwise treated as text

Row spans

Table cells with a single caret indicate follow-up rows of multi-row spans. For example,

```
| One One | One Two | One Three |
| ^ | Two Two | Two Three |
| Three One | ^ | Three Three |
```

One One	One Two	One Three
	Two Two	Two Three
Three One		Three Three

TablePlugin Global Settings

You can override the default settings for the plugin by defining the following preferences.

Preference	Meaning	Default
TABLEPLUGIN_SORT	Make all tables in a topic sortable. If this is set to `all`, all tables that have a header row (including those that do not have %TABLE before them) will be made sortable. If set to `none`, only tables with %TABLE will be sortable. Topic rendering is faster if this is set to `none`.	all
TABLEPLUGIN_TABLEATTRIBUTES	Default table attributes	tableborder="1" cellpadding="0" cellspacing="0" valign="top" headercolor="#ffffff" headerbg="#687684" headerbgsorted="#334455" databg="#ffffff,#edf4f9" databgsorted="#f1f7fc,#ddebf6" tablerules="rows"

Table Attributes

Attributes are defined as a `TABLEATTRIBUTES` preference, or on the line before the table using `%TABLE{...}%`:

- Supported attributes:

Argument	Comment	Default value	Example
`sort`	Set table sorting by clicking headers `"on"` or `"off"`.	unspecified	`sort="on"`
`initsort`	Column to sort initially (`"1"` to number of columns).	unspecified	`initsort="2"`
`initdirection`		unspecified	`initdirection="up"`

Argument	Comment	Default value	Example
	Initial sorting direction for `initsort`, set to `"up"` (descending) or `"down"` (ascending).		
`disableallsort`	Disable all sorting, both initsort and header sort. This is mainly used by plugins such as the EditTablePlugin to disable sorting in a table while editing the table.	unspecified	`disableallsort="on"`
`headerbg`	Header cell background colour.	`"#6b7f93"`	`headerbg="#999999"`
`headerbgsorted`	Header cell background colour of a sorted column.	the value of `headerbg`	`headerbgsorted="#32596c"`
`headercolor`	Header cell text colour.	`"#ffffff"`	`headercolor="#0000cc"`
`databg`	Data cell background colour, a comma separated list. Specify `"none"` for no colour, that is to use the colour/background of the page the table is on.	`"#edf4f9,#ffffff"`	`databg="#f2f2f2,#ffffff"`
`databgsorted`	Data cell background colour of a sorted column; see `databg`.	the values of `databg`	`databgsorted="#d4e8e4,#e5f5e`
`datacolor`	Data cell text colour, a comma separated list.	unspecified	`datacolor="#0000CC, #000000"`
`tableborder`	Table border width (pixels).	`"1"`	`tableborder="2"`
`tableframe`	Table frame, set to `"void"` (no sides), `"above"` (the top side only), `"below"` (the bottom side only), `"hsides"` (the top and bottom sides only), `"lhs"` (the left-hand side only), `"rhs"` (the right-hand side	unspecified	`tableframe="hsides"`

Argument	Comment	Default value	Example
	only), "vsides" (the right and left sides only), "box" (all four sides), "border" (all four sides).		
tablerules	Table rules, set to "none" (no rules), "groups" (rules will appear between row groups and column groups only), "rows" (rules will appear between rows only), "cols" (rules will appear between columns only), "all" (rules will appear between all rows and columns).	unspecified	tablerules="rows"
cellpadding	Cell padding (pixels).	"0"	cellpadding="0"
cellspacing	Cell spacing (pixels).	"0"	cellspacing="3"
cellborder	Cell border width (pixels).	unspecified	cellborder="0"
valign	Vertical alignment of cells and headers, set to "top", "middle", "bottom" or "baseline".	unspecified	valign="top"
headervalign	Vertical alignment of header cells; overrides valign.	unspecified	headervalign="top"
datavalign	Vertical alignment of data cells; overrides valign.	unspecified	datavalign="top"
headeralign	Header cell alignment, one value for all columns, or a comma separated list for different alignment of individual columns. Set to "left", "center",	unspecified	headeralign="left,right"

Argument	Comment	Default value	Example
	"right" or "justify". Overrides individual cell settings.		
dataalign	Data cell alignment, one value for all columns, or a comma separated list for different alignment of individual columns. Set to "left", "center", "right" or "justify". Overrides individual cell settings.	unspecified	dataalign="center"
tablewidth	Table width: Percentage of window width, or absolute pixel value.	unspecified	tablewidth="100%"
columnwidths	Column widths: Comma delimited list of column widths, percentage or absolute pixel value.	unspecified	columnwidths="80%,20%"
headerrows	Number of header rows to exclude from sort. (will be rendered in a HTML thead section)	"1"	headerrows="1"
footerrows	Number of footer rows to exclude from sort. (will be rendered in a HTML tfoot section)	"0"	footerrows="1"
id	Unique table identifier string, used for targeting a table with CSS.	tableN (where N is the table order number on the page)	id="userTable"
summary	Table summary used by screenreaders: A summary of what the table presents.	unspecified	summary="List of subscribed users"

Argument	Comment	Default value	Example
	It should provide an orientation for someone who listens to the table.		
`caption`	Table caption: A title that will be displayed just above the table.	unspecified	`caption="Users"`

The `%TABLE{...}%` settings override `TABLEATTRIBUTES` preferences settings, which override the `TABLEATTRIBUTES` Plugin settings.

The setting `disableallsort` is normally not used as a TABLE or TABLEATTRIBUTES setting. Plugins such as EditTablePlugin dynamically sets `disableallsort` to disable sorting while editing a table. For this to work it is important that EditTablePlugin runs before TablePlugin, which is the default. The setting `sort` can be overwritten by a URL parameter or hidden formfield of the same name. Plugins such as EditTablePlugin can use this to disable table header sorting while in edit mode.

Examples

Use of %TABLE{...}%

Line before table: `%TABLE{ sort="on" tableborder="0" cellpadding="4" cellspacing="3" cellborder="0" headerbg="#D5CCB1" headercolor="#666666" databg="#FAF0D4, #F3DFA8" headerrows="2" footerrows="1" }%`

Table with two Header Rows and Footer Row					
Num	**Status**	**Action**	**Who**	**When**	**Progress**
Num	**Status**	**Action**	**Who**	**When**	**Progress**
1	C	Chose new colours	John	1-Dec-02	
2	X	Release	John	1-Apr-02	
3		Get feedback	Anne	1-Feb-02	
12	C	Spec error handling	Jack	1-Dec-02	
5		Abc	John		

Table with 4 digit year dates and no use of %TABLE{...}%

When
1-Jan-2004
1-Jan-2003
2-Jan-2005

TablePlugin and CSS

Information for programmers.

TablePlugin implements the following precedence:

- the `TABLEATTRIBUTE` settings only write html styling, no CSS
- the `TABLEATTRIBUTE` settings can be overridden by a skin's CSS
- the `TABLE` tag attributes are converted to CSS styling, written in the head; these override any skin's CSS

CSS written by TablePlugin

`.foswikiTable`	The table
`.foswikiSortedCol`	A sorted column
`.foswikiSortedAscendingCol`	Sorted column, ascending
`.foswikiSortedDescendingCol`	Sorted column, descending
`.tableSortIcon`	The sort icon holder (span)
`.foswikiFirstCol`	The first column
`.foswikiTableEven`	Even numbered rows
`.foswikiTableOdd`	Odd numbered rows
`.foswikiTableCol` + column number	Unique column identifier, for instance: `foswikiTableCol0`
`.foswikiTableRow` + type + row number	Unique row identifier, for instance: `foswikiTableRowdataBg0`

Plugin Installation Instructions

You do not need to install anything in the browser to use this extension. The following instructions are for the administrator who installs the extension on the server.

Open configure, and open the "Extensions" section. Use "Find More Extensions" to get a list of available extensions. Select "Install".

If you have any problems, or if the extension isn't available in `configure`, then you can still install manually from the command-line. See http://foswiki.org/Support/ManuallyInstallingExtensions for more help.

- Test if the plugin is correctly installed:
  - Check above example if the table renders as expected
  - Try click on heading to sort. Other tables should also be sortable

Plugin Info

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Version:	6733 (2010-03-13)
Release:	1.046
Change History:	
13 Mar 2010	1.046: Arthur Clemens: Fixed sorting of decimal numbers and numbers with strings, like "20 cups".
21 Jan 2010	1.045: Kenneth Lavrsen: Fixed `initdirection` not working in persistant perl environment
08 Dec 2009	1.044: Arthur Clemens: Improved documentation for date formats.
21 Sep 2009	1.043: Kenneth Lavrsen: Added check for valid value for initsort. Ignore if it is not a number.
12 Sep 2009	1.042: Kenneth Lavrsen: Added a new API call initialiseWhenRender which plugins like CompareRevisionsAddOn can use to reset the table counters between two renderings of the same topic
03 Sep 2009	1.041: Kenneth Lavrsen: Fix for crash when cell contains the number 0. Allow sorting of negative numbers even when suffixed with unit. Treat whitespace as zero if pure numerical context.
02 Sep 2009	1.040: Kenneth Lavrsen: Fixed the fix of parsing date-time columns so that plain numbers are not interpreted as dates causing wrong sorting
03 Jun 2009	1.039: Michael Daum: fixed parsing date-time columns
19 Apr 2009	1.038: Removed support for settings in the plugin topic which is a bad idea anyway as they get overwritten at each Foswiki upgrade. Define the global settings in Main.SitePreferences instead. Fixed an issue where TablePlugin produced invalid css if no 'px' or '%' is passed in a size parameter. Small refactoring in style attribute handling.
16 Dec 2008	1.037: Foswiki version
30 Sep 2008	1.035: Fix sorting of attachment date column.
03 Aug 2008	1.034: TWiki 4.2.1 release version
20 Mar 2008	1.033: TWikibug:Item5387: allow rowspanned columns to contain HTML tags; otherwise it is impossible to add an invisible anchor to a rowspanned cell
16 Dec 2007	1.030: Kenneth Lavrsen: Fixed the problem of tables being sorted by by TablePlugin while the table is being edited by plugins such as EditTablePlugin. This required adding a new attribute `disableallsort` so plugins such as EditTablePlugin can temporarily disable all sorting for a table. Additionally the CGI variable (URL parameter or hidden formfield) `sort` can be set to "off" which disables all header sorting in the topic. This is used by plugins such as EditTablePlugin to disable the sorting by clicking header fields during editing of tables. Ref: TWikibug:Item5135 and TWikibug:Item2690.
03 Dec 2007	Arthur Clemens: Fixed rendering and order of html elements `thead`, `tfoot` and `tbody`; corrected `id` parameter.
24 Nov 2007	Arthur Clemens: Fixed sorting of columns with only icons; also removed TWiki formatting before sorting.
06 Oct 2007	15180: PTh: Added VarTABLE to have it listed in System.Macros
27 Jun 2007	1.024 - 1.027: Various small bug fixes.
24 Jun 2007	1.023: Arthur Clemens: Inline styles are now written to the head; updated default sort icons (from DocumentGraphics).
23 Jun 2007	1.022: Arthur Clemens: Fixed styling of param `tablerules` on Internet Explorer.
23 May 2007	1.021: Michael Daum: Fixed css attribute priority to cooperate nicely with skin themes.
27 Dec 2006	1.020: Kenneth Lavrsen: Fixed initsort so all tables can be initsorted and not only the first. When you sort a table by clicking on the header of a column the table gets sorted accordingly. When you click the header of another table the previously sorted table goes back being sorted as specified by initsort.
13 Dec 2006	1.019: Arthur Clemens: Prevent sorting of columns that do no exist.

02 Dec 2006	1.018: Arthur Clemens: Data rows now start with first `datacolor` and `databgcolor`.
26 Nov 2006	1.017: Arthur Clemens: Better support for `tablerules`.
24 Nov 2006	1.016: Arthur Clemens: Added new attribute `cellborder`.
25 Oct 2006	1.015: Arthur Clemens: Added support for background colors of sorted column. Columns can be unsorted - sorting order is now: sort ascending, sort descending, unsort. Added attributes `headervalign` and `datavalign`.
16 Aug 2006	Michael Daum: Added CSS support for even/odd table rows
13 Dec 2005	Arthur Clemens: Added support for `id`, `summary` and `caption`
05 Mar 2005	1.014: Crawford Currie eliminated deprecated handlers for Dakar
01 Aug 2004	Arthur Clemens: Added CSS support for first column and ascending/descending table headers
21 Mar 2004	PTh: Internal change: Fixed reference to unofficial variable
01 Jan 2004	PTh: Alternating data row colors restart again after each header row
01 Dec 2003	PTh: Fixed error when footerrows was specified on an empty table, contributed by TWiki:Main/PaulineCheung
24 May 2003	PTh: New `|^|` rule for multi row span (TWiki:Main/WalterMundt); added tableframe and tablerules (TWiki:Main/JohannesMartin); ignore columnwidths for multi column span; validate headerrows and footerrows (TWiki:Main/DarrylGreen); fixed link color problem and up/down icon color problem for dark header background
17 Dec 2002	PTh: Removed individual table Plugin settings; added TABLEATTRIBUTES Plugins setting and TABLEATTRIBUTES preferences setting
15 Dec 2002	PTh: Added headerrows and footerrows params (TWiki:Main/DarrylGreen, TWiki:Main/WoutMertens); added tablewidth and columnwidths params (TWiki:Main/ThorstenSommermann)
09 Dec 2002	PTh: Added headercolor and datacolor parameters
05 Jun 2002	PTh: Added "none" value to databg parameter (suggested by TWiki:Main/TaitCyrus); fixed sorting by stripping HTML tags, removing links and making sort ignore case (suggested by TWiki:Main/ShawnBradford)
13 Mar 2002	PTh: Added TWiki:Main/ShawnBradford 's initsort and initdirection
12 Mar 2002	PTh: Added valign, headeralign and dataalign; fixed bug of swapped cellpadding/cellspacing; fixed warning of uninitialized value
05 Jan 2002	PTh: Fixed sorting bug of cells with leading white space
06 Dec 2001	PTh: Fixed date sorting bug 03 Dec 2001 PTh: Fixed sort="off" bug and more
29 Nov 2001	PTh: Fixed Perl warnings
16 Nov 2001	PTh: Added table border, cell spacing, cell padding, gif files
07 Oct 2001	JT: Initial version
Plugin Home:	http://foswiki.org/Extensions/TablePlugin
Support:	http://foswiki.org/Support/TablePlugin

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Topic revision: r1 - 07 Oct 2007 - 06:09:24 - ProjectContributor

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