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


## 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  |
|--------------------------|---|------------------|---|
| <code>caption</code>     | Table caption: A title that will be displayed just above the table. | unspecified      | <code>caption="Users"</code>  |
| <code>cellborder</code>  | Cell border width (pixels).   | unspecified      | <code>cellborder="0"</code>   |
| <code>cellpadding</code> | Cell padding (pixels).  | <code>"0"</code> | <code>cellpadding="0"</code>  |
| <code>cellspacing</code> | Cell spacing (pixels).  | <code>"0"</code> | <code>cellspacing="3"</code>  |

| Argument       | Comment   | Default value                     | Example  |
|----------------|---|-----------------------------------|---|
| columnwidths   | Column widths: Comma delimited list of column widths, percentage or absolute pixel value.   | unspecified                       | columnwidths="80%,20%"  |
| 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"  |
| 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 <code>databg</code> .   | the values of <code>databg</code> | databgsorted="#d4e8e4, #e5f5e0"   |
| datacolor      | Data cell text colour, a comma separated list.  | unspecified                       | datacolor="#0000CC, #000000"  |
| datavalign     | Vertical alignment of data cells; overrides <code>valign</code> .   | unspecified                       | datavalign="top"  |
| disableallsort | Disable all sorting, both <code>initsort</code> and <code>header sort</code> . This is mainly used by plugins such as the <code>EditTablePlugin</code> to disable sorting in a table while editing the table. | unspecified                       | disableallsort="on"   |
| footerrows     | Number of footer rows to exclude  | "0"                               | footerrows="1"  |

| Argument                    | Comment   | Default value   | Example  |
|-----------------------------|---|---|---|
|                             | from sort. (will be rendered in a HTML <code>tfoot</code> section)  |   |   |
| <code>headeralign</code>    | Header 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   | <code>headeralign="left, right"</code>  |
| <code>headerbg</code>       | Header cell background colour.  | <code>"#6b7f93"</code>  | <code>headerbg="#999999"</code>   |
| <code>headerbgsorted</code> | Header cell background colour of a sorted column.   | the value of <code>headerbg</code>                                  | <code>headerbgsorted="#32596c"</code>   |
| <code>headercolor</code>    | Header cell text colour.  | <code>"#ffffff"</code>  | <code>headercolor="#0000cc"</code>  |
| <code>headerrows</code>     | Number of header rows to exclude from sort. (will be rendered in a HTML <code>thead</code> section)   | <code>"1"</code>  | <code>headerrows="1"</code>   |
| <code>headervalign</code>   | Vertical alignment of header cells; overrides <code>valign</code> .   | unspecified   | <code>headervalign="top"</code>   |
| <code>id</code>             | Unique table identifier string, used for targeting a table with CSS.  | <code>tableN</code> (where N is the table order number on the page) | <code>id="userTable"</code>   |
| <code>initdirection</code>  | Initial sorting direction for <code>init sort</code> , set to "up" (descending) or "down" (ascending).  | unspecified   | <code>initdirection="up"</code>   |
| <code>init sort</code>      | Column to sort initially (" <code>1</code> " to number of columns).   | unspecified   | <code>init sort="2"</code>  |
| <code>sort</code>           | Set table sorting by clicking headers   | unspecified   | <code>sort="on"</code>  |

| Argument    | Comment   | Default value | Example  |
|-------------|---|---------------|---|
|             | "on" or "off".  |               |   |
| summary     | Table summary used by screenreaders: A summary of what the table presents. It should provide an orientation for someone who listens to the table.   | unspecified   | summary="List of subscribed users"  |
| 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 only), "vsides" (the right and left sides only), "box" (all four sides), "border" (all four sides). | unspecified   | tableframe="hsides"   |
| 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"   |
| tablewidth  | Table width: Percentage of window width, or absolute pixel value.   | unspecified   | tablewidth="100%"   |
| valign      |   | unspecified   | valign="top"  |

| Argument | Comment  | Default value | Example  |
|----------|--|---------------|---|
|          | Vertical alignment of cells and headers, set to "top", "middle", "bottom" or "baseline". |               |   |

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:<br>foswikiTableCol0    |
| .foswikiTableRow + type + row number | Unique row identifier, for instance:<br>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

|                 |   |
|-----------------|---|
| Copyright:      | Copyright (C) 2001-2008 TWiki:Main/JohnTalintyre, Peter Thoeny, peter@thoeny.org and TWiki Contributors; © 2008-2010 Foswiki Contributors |
| License:        | GPL (GNU General Public License)  |
| 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 <code>initdirection</code> not working in persistent 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 <code>initstort</code> . Ignore if it is not a number.                            |
| 12 Sep 2009     | 1.042: Kenneth Lavrsen: Added a new API call <code>initialiseWhenRender</code> 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.<br>Fixed an issue where TablePlugin produced invalid css if no 'px' or '%' is passed in a size parameter.<br>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 <code>disableallsort</code> so plugins such as EditTablePlugin can temporarily disable all sorting for a table. Additionally the CGI variable (URL parameter or hidden formfield) <code>sort</code> 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 <code>thead</code> , <code>tfoot</code> and <code>tbody</code> ; corrected <code>id</code> 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 <code>tablerules</code> on Internet Explorer.  |
| 23 May 2007 | 1.021: Michael Daum: Fixed css attribute <code>priority</code> to cooperate nicely with skin themes.   |
| 27 Dec 2006 | 1.020: Kenneth Lavrsen: Fixed <code>initsort</code> so all tables can be <code>initsorted</code> 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 <code>initsort</code> .  |
| 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 <code>datacolor</code> and <code>databgcolor</code> .  |
| 26 Nov 2006 | 1.017: Arthur Clemens: Better support for <code>tablerules</code> .  |
| 24 Nov 2006 | 1.016: Arthur Clemens: Added new attribute <code>cellborder</code> .   |
| 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 <code>headervalign</code> and <code>datavalign</code> .   |
| 16 Aug 2006 | Michael Daum: Added CSS support for even/odd table rows  |
| 13 Dec 2005 | Arthur Clemens: Added support for <code>id</code> , <code>summary</code> and <code>caption</code>  |
| 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: | <a href="http://foswiki.org/Extensions/TablePlugin">http://foswiki.org/Extensions/TablePlugin</a>  |
| Support:     | <a href="http://foswiki.org/Support/TablePlugin">http://foswiki.org/Support/TablePlugin</a>  |

Edit | Attach | Print version | History: %REVISIONS% | Backlinks | Raw View | More topic actions  
Topic revision: r1 - 07 Oct 2007 - 06:09:24 - ProjectContributor

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