

## From EULER Project

# PmWiki: Tables

## Table basics

PmWiki has two types of table markup; the markup described in this page is useful for creating *simple* tables with lots of small cells, while [table directive](#) markups help with larger scale tables. For more possibilities with table formatting see [Cookbook:Rowspan in simple tables](#) and [Cookbook:Formatting tables](#).

Tables are created via use of double pipe characters: `||`. Lines beginning with this markup denote rows in a table or a formatting line. Within table row lines the double-pipe is used to delimit cells. In the examples below a border is added for illustration (the default is no border).

The first line in the markup contains formatting commands for the table. It only has double pipe characters at the start of the line.

### Basic table

```
|| border=1
|| cell 1 || cell 2 || cell 3 ||
|| cell 1 || cell 2 ||
```

cell 1	cell 2	cell 3
cell 1	cell 2	

Header cells can be created by placing `!` as the first character of a cell. Note that these are *table headers*, not *headings*, so it doesn't extend to `!!`, `!!!`, etc.

### Table headers

```
|| border=1
||! cell 1 ||! cell 2 ||! cell 3 ||
|| cell 1 || cell 2 || cell 3 ||
```

<b>cell 1</b>	<b>cell 2</b>	<b>cell 3</b>
cell 1	cell 2	cell 3

A table can have a caption, indicated by `||!caption!||`. Any caption must appear prior to other rows of the table.

### Table caption

```
|| border=1
||! A special table !|| | | | |
||! cell 1 ||! cell 2 ||! cell 3 ||
|| cell 1 || cell 2 || cell 3 ||
```

A special table

<b>cell 1</b>	<b>cell 2</b>	<b>cell 3</b>
cell 1	cell 2	cell 3

## Formatting cell contents

Cell contents may be aligned left, centered, or aligned right.

- To left-align contents, place the cell contents next to the leading `||`.
- To center contents, add a space before and after the cell contents.
- To right-align contents, place a space before the cell contents and leave the cell contents next to the trailing `||`.

### Cell alignments

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```
|| border=1 width=100%
||!cell 1      ||! cell 2  ||!      cell 3||
||left-aligned || centered || right-aligned||
```

cell 1	cell 2	cell 3
left-aligned	centered	right-aligned

Default cell alignments

```
|| border=1 width=100%
||!cell default||!cell left ||
||default-aligned||left-aligned ||
```

cell default	cell left
default-aligned	left-aligned

Note that header and detail cells have different default alignments.

To get a cell to span multiple columns, follow the cell with empty cells. (At present there is no markup for spanning rows.)

### Column spanning

```
|| border=1 width=100%
|| ||| right column || |
|| || middle column |||
|| left column |||
|| left column || middle column || right column ||
```

		right column
	middle column	
left column		
left column	middle column	right column

## Table attributes

Any line that begins with `||` but doesn't have a closing `||` sets the *table attributes* for any tables that follow. These attributes can control the size and position of the table, borders, background color, and cell spacing. (In fact these are just standard HTML attributes that are placed in the `<table>` tag.)

Use the `width=` attribute to set a table's width, using either a percentage value, an absolute size, or `*`.

### Table width

```
|| border=1 width=100%
|| cell 1 || cell 2 || cell 3 ||
|| c1 || cellcellcellcell2 || cell 3 ||
```

cell 1	cell 2	cell 3
c1	cellcellcellcell2	cell 3

The `border=` attribute sets the size of a table's borders.

### Bordered table

```

|| border=10 width=70%
||!cell 1      ||! cell 2  ||!
cell 3||
||left-aligned || centered ||
right-aligned||

```

<b>cell 1</b>	<b>cell 2</b>	<b>cell 3</b>
left-aligned	centered	right-aligned

Borderless table

```

|| border=0 width=70%
||!cell 1      ||! cell 2  ||!
cell 3||
||left-aligned || centered ||
right-aligned||

```

**cell 1**      **cell 2**      **cell 3**  
left-aligned centered right-aligned

Use `align=center`, `align=left`, and `align=right` to center, left, or right align a table. Note that `align=left` and `align=right` create a *floating table*, such that text wraps around the table.

Table alignment: center

```

|| border=1 align=center width=50%
||!cell 1      ||! cell 2  ||!      cell 3||
||left-aligned || centered || right-aligned||

```

Notice how text does not wrap with a table using "align=center".

<b>cell 1</b>	<b>cell 2</b>	<b>cell 3</b>
left-aligned	centered	right-aligned

Notice how text does not wrap with a table using "align=center".

Table alignment: left

```

|| border=1 align=left width=50%
||!cell 1      ||! cell 2  ||!      cell 3||
||left-aligned || centered || right-aligned||

```

Notice how text wraps to the right of a table using "align=left".

<b>cell 1</b>	<b>cell 2</b>	<b>cell 3</b>
left-aligned	centered	right-aligned

Notice how text wraps to the right of a table using "align=left".

Table alignment: right

```

|| border=1 align=right width=50%
||!cell 1      ||! cell 2  ||!      cell 3||
||left-aligned || centered || right-aligned||

```

Notice how text wraps to the left of a table using "align=right".

<b>cell 1</b>	<b>cell 2</b>	<b>cell 3</b>
left-aligned	centered	right-aligned

Notice how text wraps to the left of a table using "align=right".

Note: to get a table to align left (but not "float left") requires CSS, as in

```

|| style="margin-left:0px; "

```

The `bgcolor=` attribute sets the background color for a table. At present there is no way to specify the color of individual rows or cells in this type of table (but see [Cookbook:FormattingTables](#)).

```

|| border=1 align=center bgcolor=yellow
width=70%
||!cell 1      ||! cell 2  ||!      cell
3||

```

<b>cell 1</b>	<b>cell 2</b>	<b>cell 3</b>
left-align	center	right-align

```
||left-align || center ||
right-align||
```

How do I create a basic table?

Tables are created via use of the double pipe character: `||`. Lines beginning with this markup denote rows in a table; within such lines the double-pipe is used to delimit cells. In the examples below a border is added for illustration (the default is no border).

## Basic table

```
|| border=1 rules=rows frame=hsides || cell 1 || cell 2 || cell 3 ||
|| cell 1 || cell 2 || cell 3 ||
|| cell 1 || cell 2 || cell 3 ||
```

cell 1	cell 2	cell 3
cell 1	cell 2	cell 3
cell 1	cell 2	cell 3

How do I create cell headers?

Header cells can be created by placing `!` as the first character of a cell. Note that these are *table headers*, not *headings*, so it doesn't extend to `!!`, `!!!`, etc.

## Table headers

```
|| border=1 rules=cols frame=vsides || cell 1 || cell 2 || cell 3 ||
||! cell 1 ||! cell 2 ||! cell 3 ||
|| cell 1 || cell 2 || cell 3 ||
```

<b>cell 1</b>	<b>cell 2</b>	<b>cell 3</b>
cell 1	cell 2	cell 3
cell 1	cell 2	cell 3

How do I create an advanced table?

See [table directives](#)

My tables are by default centered. When I try to use `||align=left` they don't align left as expected.

Use `||style="margin-left:0px;"` instead.

How can I specify the width of columns?

You can define the widths via custom styles, see [Cookbook:FormattingTables](#) and [\\$TableCellAttrFmt](#). Add in `config.php` : `$TableCellAttrFmt = 'class=col\'$TableCellCount\'';`

And add in `pub/css/local.css` :

```
table.column td.col1 { width: 120px; }
table.column td.col3 { width: 40px; }
```

How can I display a double pipe `||` in cell text using basic table markup?

Escape it with `[=| |=]` to display `||` unchanged.

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