

# Tables

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# 1 Help:Tables

**Template:PD Help Page Tables** may be authored in wiki pages using either XHTML table elements directly, or using wikicode formatting to define the table. XHTML table elements and their use are well described on various web pages and will not be discussed here. The benefit of wikicode is that the table is constructed of character symbols which tend to make it easier to perceive the table structure in the article editing view compared to XHTML table elements.

As a general rule, it is best to avoid using a table unless you need one. Table markup often complicates page editing.

## 1.1 Wiki table markup summary

|  |   |
|--|---|
| <code>table</code>                     | <code>start</code>  |
| <code>table</code><br><code>row</code> | <code>caption</code> , <i>optional</i> ; only between <b>table start</b> and first <b>table row</b>   |
| <code>table</code>                     | <code>row</code> , <i>optional on first row</i> -- wiki engine assumes the first row  |
| <code>table</code>                     | <b>header</b> cell, <i>optional</i> . Consecutive <b>table header</b> cells may be added on same line separated by double marks ( ! ! ) or start on new lines, each with its own single mark ( ! ). |
| <code>table</code>                     | <b>data</b> cell, <i>required!</i> Consecutive <b>table data</b> cells may be added on same line separated by double marks (     ) or start on new lines, each with its own single mark (   ).      |
| <code>table</code>                     | <code>end</code>  |

- The above marks must **start on a new line** except the double | | and ! ! for optionally adding consecutive cells to a line. However, blank spaces at the beginning of a line are ignored.
- **XHTML attributes.** Each mark, except table end, optionally accepts one or more XHTML attributes. Attributes must be on the same line as the mark. Separate attributes from each other with a single space.
  - ◆ Cells and caption ( | or | | , ! or ! ! , and | + ) hold content. So separate any attributes from content with a single pipe ( | ). Cell content may follow on same line or on following lines.
  - ◆ Table and row marks ( { | and | - ) do not directly hold content. Do *not* add pipe ( | ) after their optional attributes. If you erroneously add a pipe after attributes for the table mark or row mark the parser will delete it *and* your final attribute if it was touching the erroneous pipe!
- **Content** may (a) follow its cell mark on the same line after any optional XHTML attributes or (b) on lines below the cell mark. Content that uses wiki markup that itself needs to start on a new line, such as lists, headings, or nested tables, must be on its own new line.
  - ◆ **Pipe character as content.** To insert a pipe ( | ) character into a table use the `<nowiki> | </nowiki>` escaping markup

## 1.2 Basics

The following table lacks borders and good spacing but shows the simplest wiki markup table structure.

| You type   | You get   |
|--|---|
| <pre>{    Orange  Apple  -  Bread  Pie  -  Butter  Ice cream }</pre> | <pre> Orange Apple Bread Pie Butter Ice cream</pre> |

The cells in the same row can be listed on one line separated by | | (two pipe symbols). If the text in the cell contains a line break, use `<br />` instead.

| You type  | You get   |
|---|---|
| <pre>{  Orange   Apple   more  -  Bread   Pie   more  - }</pre> | <pre> Orange Apple more Bread Pie more Butter</pre> |



| You type   | You get            |
|--|--------------------|
| <code>  Butter     Ice<br/>&lt;br /&gt;cream     and<br/>&lt;br /&gt;more  </code> | Ice and cream more |

Extra spaces within cells in the wiki markup, as in the wiki markup below, do not affect the actual table rendering.

| You type  | You get  |
|---|--|
| <code>{  <br/>  Orange     Apple     more<br/>-<br/>  Bread     Pie     more<br/>-<br/>  Butter     Ice cream     and more<br/>}</code> | Orange Apple more<br>Bread Pie more<br>Butter Ice and cream more |

You can have longer text or more complex wiki syntax inside table cells, too:

| You type   | You get   |
|--|---|
| <code>{  <br/>  Lorem ipsum dolor sit amet,<br/>consetetur sadipscing elitr,<br/>sed diam nonumy eirmod tempor invidunt<br/>ut labore et dolore magna aliquyam erat,<br/>sed diam voluptua.<br/><br/>At vero eos et accusam et justo duo dolores<br/>et ea rebum. Stet clita kasd gubergren,<br/>no sea takimata sanctus est Lorem ipsum<br/>dolor sit amet.<br/> <br/>* Lorem ipsum dolor sit amet<br/>* consetetur sadipscing elitr<br/>* sed diam nonumy eirmod tempor invidunt<br/> }</code> | <div style="display: flex; justify-content: space-between;"> <div style="width: 80%;"> <p> Lorem ipsum dolor sit amet,<br/>consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua.<br/>At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet.</p> </div> <div style="width: 15%;"> <ul style="list-style-type: none"> <li>• Lorem ipsum dolor sit amet</li> <li>• consetetur sadipscing elitr</li> <li>• sed diam nonumy eirmod tempor invidunt</li> </ul> </div> </div> |

### 1.2.1 Table headers

Table headers can be created by using "!" (exclamation mark) instead of "|" (pipe symbol). Headers usually show up bold and centered by default.

| You type   | You get   |              |        |      |        |    |      |       |   |      |        |   |      |              |  |              |
|--|---|--------------|--------|------|--------|----|------|-------|---|------|--------|---|------|--------------|--|--------------|
| <code>{  <br/>! Item<br/>! Amount<br/>! Cost<br/>-<br/>Orange<br/>10<br/>7.00<br/>! Item Amount Cost<br/>-<br/>Orange 10 7.00<br/>Bread<br/>4<br/>3.00<br/>Butter 1 5.00<br/>-<br/>! Total<br/>15.00<br/> }</code> | <table border="1"> <thead> <tr> <th>Item</th> <th>Amount</th> <th>Cost</th> </tr> </thead> <tbody> <tr> <td>Orange</td> <td>10</td> <td>7.00</td> </tr> <tr> <td>Bread</td> <td>4</td> <td>3.00</td> </tr> <tr> <td>Butter</td> <td>1</td> <td>5.00</td> </tr> <tr> <td><b>Total</b></td> <td></td> <td><b>15.00</b></td> </tr> </tbody> </table> | Item         | Amount | Cost | Orange | 10 | 7.00 | Bread | 4 | 3.00 | Butter | 1 | 5.00 | <b>Total</b> |  | <b>15.00</b> |
| Item   | Amount  | Cost         |        |      |        |    |      |       |   |      |        |   |      |              |  |              |
| Orange   | 10  | 7.00         |        |      |        |    |      |       |   |      |        |   |      |              |  |              |
| Bread  | 4   | 3.00         |        |      |        |    |      |       |   |      |        |   |      |              |  |              |
| Butter   | 1   | 5.00         |        |      |        |    |      |       |   |      |        |   |      |              |  |              |
| <b>Total</b>   |   | <b>15.00</b> |        |      |        |    |      |       |   |      |        |   |      |              |  |              |

### 1.2.2 Caption

A **table caption** can be added to the top of any table as follows.

| You type   | You get   |                  |  |        |       |       |     |
|--|---|------------------|--|--------|-------|-------|-----|
| <code>{  <br/>+Food complements<br/>-<br/>Orange<br/>Apple<br/>-<br/>Bread<br/> }</code> | <table border="1"> <thead> <tr> <th colspan="2">Food complements</th> </tr> </thead> <tbody> <tr> <td>Orange</td> <td>Apple</td> </tr> <tr> <td>Bread</td> <td>Pie</td> </tr> </tbody> </table> | Food complements |  | Orange | Apple | Bread | Pie |
| Food complements   |   |                  |  |        |       |       |     |
| Orange   | Apple   |                  |  |        |       |       |     |
| Bread  | Pie   |                  |  |        |       |       |     |



| You type                            | You get                     |
|-------------------------------------|-----------------------------|
| <pre>Pie - Butter Ice cream }</pre> | <pre>Butter Ice cream</pre> |

### 1.3 XHTML attributes

You can add XHTML attributes to tables. For the authoritative source on these, see [the W3C's HTML 4.01 Specification page on tables](#).

#### 1.3.1 Attributes on tables

Placing attributes after the table start tag (`{ | }`) applies attributes to the entire table.

| You type  | You get   |           |       |           |       |     |        |        |           |      |
|---|---|-----------|-------|-----------|-------|-----|--------|--------|-----------|------|
| <pre>{   border="1" align="center" style="text-align:center;" Orange Apple 12,333.00 - Bread Pie 500.00 - Butter Ice cream 1.00 }</pre> | <table border="1"> <tr> <td>Orange</td> <td>Apple</td> <td>12,333.00</td> </tr> <tr> <td>Bread</td> <td>Pie</td> <td>500.00</td> </tr> <tr> <td>Butter</td> <td>Ice cream</td> <td>1.00</td> </tr> </table> | Orange    | Apple | 12,333.00 | Bread | Pie | 500.00 | Butter | Ice cream | 1.00 |
| Orange  | Apple   | 12,333.00 |       |           |       |     |        |        |           |      |
| Bread   | Pie   | 500.00    |       |           |       |     |        |        |           |      |
| Butter  | Ice cream   | 1.00      |       |           |       |     |        |        |           |      |

#### 1.3.2 Attributes on cells

You can put attributes on individual **cells**. For example, numbers may look better aligned right.

| You type  | You get   |           |       |           |       |     |        |        |           |      |
|---|---|-----------|-------|-----------|-------|-----|--------|--------|-----------|------|
| <pre>{   border="1" Orange Apple align="right"   12,333.00 - Bread Pie align="right"   500.00 - Butter Ice cream align="right"   1.00 }</pre> | <table border="1"> <tr> <td>Orange</td> <td>Apple</td> <td>12,333.00</td> </tr> <tr> <td>Bread</td> <td>Pie</td> <td>500.00</td> </tr> <tr> <td>Butter</td> <td>Ice cream</td> <td>1.00</td> </tr> </table> | Orange    | Apple | 12,333.00 | Bread | Pie | 500.00 | Butter | Ice cream | 1.00 |
| Orange  | Apple   | 12,333.00 |       |           |       |     |        |        |           |      |
| Bread   | Pie   | 500.00    |       |           |       |     |        |        |           |      |
| Butter  | Ice cream   | 1.00      |       |           |       |     |        |        |           |      |

You can also use **cell** attributes when you are listing multiple **cells** on a single line. Note that the **cells** are separated by `|`, and within each **cell** the attribute(s) and value are separated by `|`.

| You type  | You get   |           |       |           |       |     |        |        |           |      |
|---|---|-----------|-------|-----------|-------|-----|--------|--------|-----------|------|
| <pre>{   border="1" Orange    Apple    align="right"   12,333.00 - Bread    Pie    align="right"   500.00 - Butter    Ice cream    align="right"   1.00 }</pre> | <table border="1"> <tr> <td>Orange</td> <td>Apple</td> <td>12,333.00</td> </tr> <tr> <td>Bread</td> <td>Pie</td> <td>500.00</td> </tr> <tr> <td>Butter</td> <td>Ice cream</td> <td>1.00</td> </tr> </table> | Orange    | Apple | 12,333.00 | Bread | Pie | 500.00 | Butter | Ice cream | 1.00 |
| Orange  | Apple   | 12,333.00 |       |           |       |     |        |        |           |      |
| Bread   | Pie   | 500.00    |       |           |       |     |        |        |           |      |
| Butter  | Ice cream   | 1.00      |       |           |       |     |        |        |           |      |

#### 1.3.3 Attributes on rows

You can put attributes on individual **rows**, too.

| You type   | You get   |           |       |           |       |     |        |        |           |      |
|--|---|-----------|-------|-----------|-------|-----|--------|--------|-----------|------|
| <pre>{   border="1" Orange Apple align="right"   12,333.00 - Bread Pie</pre> | <table border="1"> <tr> <td>Orange</td> <td>Apple</td> <td>12,333.00</td> </tr> <tr> <td>Bread</td> <td>Pie</td> <td>500.00</td> </tr> <tr> <td>Butter</td> <td>Ice cream</td> <td>1.00</td> </tr> </table> | Orange    | Apple | 12,333.00 | Bread | Pie | 500.00 | Butter | Ice cream | 1.00 |
| Orange   | Apple   | 12,333.00 |       |           |       |     |        |        |           |      |
| Bread  | Pie   | 500.00    |       |           |       |     |        |        |           |      |
| Butter   | Ice cream   | 1.00      |       |           |       |     |        |        |           |      |



| You type  | You get |
|---|---------|
| <pre> align="right"   500.00 - style="font-style:italic; color:green;" Butter Ice cream align="right"   1.00 </pre> |         |

### 1.3.3.1 Simple one-pixel table border

The default table formatting uses the "border-collapse: separate" model, which adds table cell spacing (which also separates the table outer border from its content cells). Even with a zero cellspacing, the borders of consecutive cells (and of the overall table container) will add up, so to get a one-pixel separation between cells, you need to selectively remove one or more of the four borders of cells.

Such tables may be formatted more simply, using the "border-collapse: collapse" CSS property; in this table formatting model, the cellspacing attribute (or the CSS "border-spacing:" property) and the table's "padding:" CSS property is ignored and only the larger border of adjacent inner cells (or the table border for outer cells) will be used.

An example of the above for one-pixel table border, using each model (without need for external extensions):

| You type   | You get |
|--|---------|
| <pre> {  style="border-collapse: separate; border-spacing: 0; border-width: 1px; border-style: solid; border-color: #000"  - !style="border-style: solid; border-width: 0 1px 1px 0"   Orange !style="border-style: solid; border-width: 0 0 1px 0"   Apple  - !style="border-style: solid; border-width: 0 1px 0 0"   Bread !style="border-style: solid; border-width: 0"   Pie  } </pre> |         |
| <pre> {  style="border-collapse: collapse; border-width: 1px; border-style: solid; border-color: #000"  - !style="border-style: solid; border-width: 1px"   Orange !style="border-style: solid; border-width: 1px"   Apple  - !style="border-style: solid; border-width: 1px"   Bread !style="border-style: solid; border-width: 1px"   Pie  } </pre>                                      |         |

Notes :

- When using the "border-width:" CSS shortcut property, the order of the four space-separated specified values is: top, right, bottom, left. As an example from above:

"border-width: 0 1px 0 0"

When there are fewer than 4 values, the value for left takes its default from the value for right, the value for bottom takes its default from the value for top, and the value for right takes its default from the value for top.

- The HTML attributes (such as "width=", "border=", "cellspacing=", "cellpadding=") do not need any length unit (the pixel unit is assumed). The CSS style properties (which override the HTML attributes) require an explicit length unit (if the value is not 0) such as "px" for the pixel.

### 1.3.4 HTML colspan and rowspan

You can use HTML **colspan** and **rowspan** attributes on cells for advanced layout.

| You type  | You get  |               |        |           |         |  |  |                |     |      |        |           |  |        |           |  |        |         |           |  |  |  |  |  |        |  |  |  |  |  |         |  |  |  |  |  |
|---|--|---------------|--------|-----------|---------|--|--|----------------|-----|------|--------|-----------|--|--------|-----------|--|--------|---------|-----------|--|--|--|--|--|--------|--|--|--|--|--|---------|--|--|--|--|--|
| <pre> {  border="1" !colspan="6"   Shopping List  - !rowspan="2"   Bread &amp; Butter Pie Buns Danish !colspan="2"   Croissant &amp; Cheese - !colspan="2"   Ice cream Butter Yoghurt  } </pre> | <table border="1"> <tr> <td colspan="6">Shopping List</td> </tr> <tr> <td rowspan="2">Bread &amp; Butter</td> <td>Pie</td> <td>Buns</td> <td>Danish</td> <td colspan="2">Croissant</td> </tr> <tr> <td>Cheese</td> <td colspan="2">Ice cream</td> <td>Butter</td> <td>Yoghurt</td> </tr> <tr> <td colspan="6">Ice cream</td> </tr> <tr> <td colspan="6">Butter</td> </tr> <tr> <td colspan="6">Yoghurt</td> </tr> </table> | Shopping List |        |           |         |  |  | Bread & Butter | Pie | Buns | Danish | Croissant |  | Cheese | Ice cream |  | Butter | Yoghurt | Ice cream |  |  |  |  |  | Butter |  |  |  |  |  | Yoghurt |  |  |  |  |  |
| Shopping List   |  |               |        |           |         |  |  |                |     |      |        |           |  |        |           |  |        |         |           |  |  |  |  |  |        |  |  |  |  |  |         |  |  |  |  |  |
| Bread & Butter  | Pie  | Buns          | Danish | Croissant |         |  |  |                |     |      |        |           |  |        |           |  |        |         |           |  |  |  |  |  |        |  |  |  |  |  |         |  |  |  |  |  |
|   | Cheese   | Ice cream     |        | Butter    | Yoghurt |  |  |                |     |      |        |           |  |        |           |  |        |         |           |  |  |  |  |  |        |  |  |  |  |  |         |  |  |  |  |  |
| Ice cream   |  |               |        |           |         |  |  |                |     |      |        |           |  |        |           |  |        |         |           |  |  |  |  |  |        |  |  |  |  |  |         |  |  |  |  |  |
| Butter  |  |               |        |           |         |  |  |                |     |      |        |           |  |        |           |  |        |         |           |  |  |  |  |  |        |  |  |  |  |  |         |  |  |  |  |  |
| Yoghurt   |  |               |        |           |         |  |  |                |     |      |        |           |  |        |           |  |        |         |           |  |  |  |  |  |        |  |  |  |  |  |         |  |  |  |  |  |



### 1.3.5 With HTML attributes and CSS styles

CSS style attributes can be added with or without other HTML attributes.

| You type  | You get |           |
|---|---------|-----------|
| <pre>{   style="color:green; background-color:#ffffcc;" cellpadding="10" cellspacing="0" border="1"   Orange   Apple   -   Bread   Pie   -   Butter   Ice cream   }</pre> | Orange  | Apple     |
|   | Bread   | Pie       |
|   | Butter  | Ice cream |

Attributes can be added to the caption and headers as follows.

| You type   | You get                 |           |
|--|-------------------------|-----------|
| <pre>{   border="1" cellpadding="20" cellspacing="0" + align="bottom" style="color:#e76700;"   'Food complements   -   Orange   Apple   -   Bread   Pie   -   Butter   Ice cream   }</pre> | Orange                  | Apple     |
|  | Bread                   | Pie       |
|  | Butter                  | Ice cream |
|  | <i>Food complements</i> |           |

### 1.3.6 Accessibility of table header cells

Table header cells do not explicitly specify which table data cells they apply to (those on their right on the same row, or those below them on the same column). When the table is rendered in a visual 2D environment, this is usually easy to infer.

However when tables are rendered on non-visual medias, you can help the browser to determine which table header cell applies to the description of any selected cell (in order to repeat its content in some accessibility helper) using a `scope="row"` or `scope="col"` attribute on table header cells. In most cases with simple tables, you'll use `scope="col"` on all header cells of the first row, and `scope="row"` on the first cell of the following rows:

| You type  | You get       |                 |              |
|---|---------------|-----------------|--------------|
| <pre>{   border="1" cellspacing="0" cellpadding="2"   -   !scope="col"   Item   !scope="col"   Quantity   !scope="col"   Price   -   !scope="row"   Bread   0.3 kg   \$0.65   -   !scope="row"   Butter   0.125 kg   \$1.25   -   !scope="row" colspan="2"   Total   \$1.90   }</pre> |               |                 |              |
|   | <b>Item</b>   | <b>Quantity</b> | <b>Price</b> |
|   | <b>Bread</b>  | 0.3 kg          | \$0.65       |
|   | <b>Butter</b> | 0.125 kg        | \$1.25       |
|   | <b>Total</b>  |                 | \$1.90       |

## 1.4 Caveats

### 1.4.1 Negative numbers

If you start a cell on a new line with a negative number with a minus sign (or a parameter that evaluates to a negative number), your table can get broken, because the characters `| -` will be parsed as the wiki markup for table row, not table cell. To avoid this, insert a space before the value (`| -6`) or use in-line cell markup (`| | -6`).



## 1.4.2 CSS vs Attributes

Table borders specified through CSS rather than the border attribute will render incorrectly in a small subset of text browsers.

## 1.4.3 Common attributes for columns, column groups and row groups

The MediaWiki syntax for tables currently offers no support for specifying common attributes for columns (with the HTML element `<col />`), column groups (HTML element `<colgroup>...</colgroup>`) and row groups (HTML elements `<thead>...</thead>`, `<tbody>...</tbody>` and `<tfoot>...</tfoot>`). Those standard HTML elements are not accepted even in their HTML or XHTML syntax.

All the rows and cells (header or data) of the table are rendered within a single implicit row group (HTML element `<tbody>...</tbody>`) without any attributes or styles.

## 1.5 See also

- [Template:Mediawiki](#)
- [Template:Mediawiki](#)

[Template:Languages](#)

