

HTML5. Tables

Tables are used to arrange data in tabular format - rows and columns of cells. You can put a variety of data like text, images, forms, links and even other tables in your table.

Tables are not used for layout because:

- They are **semantically incorrect** for layout because **they represent presentation and not content**.
- It puts presentation data in your content **making your HTML larger**. The user must download this unnecessary presentation data for every page they visit.
- **Accessibility**: tables **are not very screen reader friendly**. Using tables for layout will clutter your HTML making it harder for assistive technology to parse your Web page.
- **Redesigns are harder** when your HTML is cluttered with presentational code that should go into CSS. To change the layout of the page, you shouldn't be editing your content. Instead, you should just have to make CSS related changes.

Using CSS is easier to maintain consistency among pages.

Table elements

Type	Element
	<code><table></code>
	<code><caption</code>
Row groups	<code><thead><tfoot><tbody></code>
Column groups	<code><colgroup><col></code>
Table row	<code><tr></code>
Table cols	<code><th><td></code>

The `<table>` tag

This tag defines a table in HTML5.

Attribute:

- **Border**: has two values, 0 and 1. It is used to specify a border around table cells. 0 - no border, 1 - add border. 0 also suggests that it is a layout table.

Though there is an attribute for border, the table elements should be styled using CSS. You can use the CSS border property to do that instead.

`<caption>`

It is used to give a title to the table and should be used as the first child element of `<table>`.

```
<table>
  <caption>
```

```

    <p>Table 1.0</p>
    <p>Student's final exam results 2021</p>
  </caption>
</table>

```

The tr, th, td, colgroup, col tags

<tr>

Creates a table row

<th>

There are two types of cells in a table - header and standard.

<th> creates table header cells. The content of table header cells is bold and centered by default.

Attributes for th	Purpose	Usage
Colspan	Specifies the number of cells you want that column to span(cover) Possible values: positive integer number	<th colspan="2">
rowspan	Specifies the number of cells you want the row to span (cover). Possible values: positive integer number	<th rowspan="2">
scope	Specifies if a header cell is the header for a row, column, rowgroup or colgroup. Possible values: row, col, rowgroup, colgroup, auto	<th scope="row">

<https://codepen.io/paqui-molina/pen/eYYVajb>

<td>

Creates table data (standard) cells. Content of table data cells is regular and left-aligned by default.

Attributes for td	Purpose	Usage
Colspan	Specifies the number of cells you want that column to span(cover) Possible values: positive integer number	<td colspan="2">
Rowspan	Specifies the number of cells you want the row to span (cover).	<td rowspan="2">

	Possible values: positive integer number	
headers	Values is the 'id' of the <th> tag it corresponds to if any	<pre> <tr> <th id="header-id"> </tr> <tr> <td Headers="header-id"> <td Headers="header-id"> </tr> </pre>

<colgroup>

This tag allows you to group columns in a table. Grouping columns is useful if you want to specify properties for a group of columns like applying styles to the whole column instead of repeating it for each cell.

Attribute:

- Span: takes a positive integer value. It specifies the number of columns you want your colgroup to span (cover). The colgroup element shares its attributes like style and width with all the columns it spans.

<col>

Used within <colgroup>, the <col> tag specifies the column property for each column within a colgroup. The only element a <colgroup> can contain is <col>.

<https://codepen.io/paqui-molina/pen/MWWQdxz>

The thead, tbody and tfoot tags

<thead>

<thead> is used to group the header content in a HTML table.

<tbody>

Following <thead>, subsequent rows are considered body rows in a table. Regular cells are specified using <td> as a child of <tr>

<tfoot>

The footer is the last to be specified and rows within <tfoot> are considered footer rows at the end of a table.

<https://codepen.io/paqui-molina/pen/yLLvvgj?editors=1100>

Más sobre tablas: <https://htmlreference.io/tables/>