

Structuring information in a website

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HTML TABLES

Tables

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- Tables work a lot like HTML list tags, in that you must use the *table container tag* to hold together a group of tags that define each individual row.
- A table (defined using the `<table>` non-empty tag) is a list of table rows (defined using the `<tr>` non-empty tag).
- A table row is a list of table-data (cells, defined using the `<td>` non-empty tag).
- Most tables will also use an element for ***table headers*** (`<th>`) which is generally used as the title text for rows and columns.

A Table example

A table with two rows (tr).

Each row with three cells (td).

`style="width:100%"` is used to define that the width of the table should be as 100% of the width of the browser window.

```
<!DOCTYPE HTML>
<html>
  <head></head>
  <body>
    <table style="width:100%">
      <tr>
        <td>Jill</td>
        <td>Smith</td>
        <td>50</td>
      </tr>
      <tr>
        <td>Eve</td>
        <td>Jackson</td>
        <td>94</td>
      </tr>
    </table>
  </body>
</html>
```

Adding borders

`style = "border: 1px solid black"` is used to define that a border around the table should be drawn as a solid black line with thickness of 1 pixel.

The same should be used as an attribute to a `td` tag in order to draw a border around a particular cell.

```
<!DOCTYPE HTML>
<html>
  <head></head>
  <body>
    <table style="border: 1px solid black">
      <tr>
        <td>Jill</td>
        <td>Smith</td>
        <td>50</td>
      </tr>
      <tr>
        <td>Eve</td>
        <td>Jackson</td>
        <td>94</td>
      </tr>
    </table>
  </body>
</html>
```

Combining width and border

A single style can be used for both width and border!

```
<!DOCTYPE HTML>
<html>
  <head></head>
  <body>
    <table style="width:100%; border: 1px solid
    black">
      <tr>
        <td>Jill</td>
        <td>Smith</td>
        <td>50</td>
      </tr>
      <tr>
        <td>Eve</td>
        <td>Jackson</td>
        <td>94</td>
      </tr>
    </table>
  </body>
</html>
```

Defining a style for all cells

Instead of using the attribute `style` in every `td` `table` and `th` tags, we can universally define a common style at the head, using the `style` tag

```
<!DOCTYPE HTML>
<html>
  <head>
    <style>
      table,th,td{border: 1px solid black}
    </style>
  </head>
  <body>
    <table>
      <tr>
        <td>Jill</td>
        <td>Smith</td>
        <td>50</td>
      </tr>
      <tr>
        <td>Eve</td>
        <td>Jackson</td>
        <td>94</td>
      </tr>
    </table>
  </body>
</html>
```

The <table> tag style attribute

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- In HTML 5, all table attributes that define style of the table are deprecated (no longer supported).
- Instead CSS is used (we will talk about it next time) with the **style** is used for everything.
- Examples:
 - `<table style="width:100%; text-align: right;">`
 - `<table style="border: 1px solid black">`
 - `<table style="width: 80%; border: 2px solid red; border-collapse: collapse; vertical-align: bottom;">`

The caption tag

The **<caption>** tag allows to put a caption at a table

The **<caption>** tag has to be defined immediately after the **<table>** tag.

By default, text is also aligned to center (horizontally).

In HTML 5 the **<caption>** tag has no attributes.

```
<!DOCTYPE HTML>
<html>
  <head></head>
  <body>
    <table style="width:100% border: 1px solid
    black">
      <caption>A small table</caption>
      <tr>
        <td>Jill</td>
        <td>Smith</td>
        <td>50</td>
      </tr>
      <tr>
        <td>Eve</td>
        <td>Jackson</td>
        <td>94</td>
      </tr>
    </table>
  </body>
</html>
```


Expanding a cell to its neighbors

`rowspan` and `colspan` are attributes of the `td` and `th` tags that are used to expand a cell to multiple rows and or columns!

```
<!DOCTYPE HTML>
<html>
  <head></head>
  <body>
    <table style="width:100% border: 1px solid
    black">
      <caption>A small table</caption>
      <tr>
        <td colspan="2">Jill</td>
        <td>50</td>
      </tr>
      <tr>
        <td>Eve</td>
        <td>Jackson</td>
        <td>94</td>
      </tr>
    </table>
  </body>
</html>
```

Tables and Images

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- One thing that hasn't really been touched on so far is the possibility of including images in tables. It's definitely possible, and just about as easy as anything else you've done with tables.
- Graphics look very nice in tables, and they work well to enliven what would otherwise be drier, text-heavy information (like computer specs).