HTML : table, caption, table row, table head, table data, rowspan, colspan

CSS : border-collapse, text-align, font-weight, nth-child

Introduction

1 Table coding is only applied to **data** that is displayed in columns and rows, for example: accommodation rates, bus timetables, transport schedules, shipping costs, etc. Table coding is **not used for page layouts**

2 View the online **Introduction to Tables tutorial** located at
https://www.youtube.com/watch?v=BczLWImAmBk (LearnWebCode, 10 mins duration)

```html
<main>

<!-- <h1>Groceries</h1>   Note: apply a
caption tag inside the table to associate
the heading with the table -->

<table>

<caption>Groceries</caption>

<tr>
    <th>Item Name</th>
    <th>Price</th>
    <th>Quantity</th>
    <th>Aisle Number</th>
</tr>

<tr>
    <td>Milk</td>
    <td>$3.00</td>
    <td>1</td>
    <td>A3</td>
</tr>

<tr>
    <td>Whole Wheat Bread</td>
    <td>$2.85</td>
    <td>1</td>
    <td>A5</td>
</tr>

<tr>
    <td>Carrots</td>
    <td>$2.00</td>
    <td>2</td>
    <td>C2</td>
</tr>

<tr>
    <td>Apples</td>
    <td>$3.00</td>
    <td>4</td>
    <td>C2</td>
</tr>

</table>

</main>
```

Groceries

Item Name	Price	Quantity	Aisle Number
Milk	$3.00	1	A3
Whole Wheat Bread	$2.85	1	A5
Carrots	$2.00	2	C2
Apples	$3.00	4	C2

```css
* {
margin: 0em;
padding: 0em;
font-size: 100%;
border-style: none;
}

table {
    border-collapse: collapse;
}

/* add caption rules */
caption {
    font-size: 30px;
    text-align: left;
    font-weight: bold;
    margin: 20px 0px;
}

table th {
    text-align: left;
    background-color: #3c6070;
    color: #fff;
    padding: 4px 30px 4px 8px;
}

table td {
    border: 1px solid #e3e3e3;
    padding: 4px 8px;
}

table tr:nth-child(odd) td {
    background-color: #e7edf0;
}
```

2   **Note:** at the end of this online resource, a background colour is applied to alternate rows of data to improve on-screen readability. Another method for applying a background colour to alternate rows is to add a class to the <tr> tag of each row where the background colour is to be applied (a class value can be repeated within a page, whereas an id value cannot be repeated within the same page)

3   Read the document named **Do I need both a heading tag and a caption for a table**

4   Code **<caption> tags** between the <table> tag and the first <tr> tag then type the table heading text between these tags. It associates the table heading with the table – for accessibility and usability

Review Coding for Tables

1   Apply HTML coding for tables to include

   a   a table tag

   b   a caption tag – the heading for the table

   c   table row tags – the beginning and end of each row

   d   table header tags – the headings for the column data OR the headings for the row data

   e   table data tags – the actual data

   f   colspan attributes – to merge horizontal cells

   g   rowspan attributes – to merge vertical cells

2   Apply CSS for presentation including

   a   font hierarchy

   b   table width, cell widths

   c   border-collapse (to remove the spacing between each cell)

   d   background colours, text colours, font weight and text alignment

   e   margin, padding, border widths, border styles and border colours

Exercises

1   Create a **tables** folder, copy your html and css templates and rename them to **tables.html** and **tables.css**

2   Code the following tables in **one** HTML file

3   Apply a suitable id to each table tag and target css rules for that table

4   View your tables in a range of browsers throughout the task

Table 1

Font: helvetica, calibri and the default computer font

Table width: 600 pixels

Border colour: #7e062e (deep red)

Caption colours: #adad84 (light brown), #5c5c31 (dark brown)

Table text colour: #000 (black)

Table 2

Font: helvetica, calibri and the default computer font

Table: width 600 pixels, background #edeee9 (grey)

Border colour: #8ebbb5 (blue-green)

Caption colours: #eee (mid grey), #475f77 (dark blue)

Table text colours: #475f77 (dark blue), #8c828b (grey)

Table 3

Font: "trebuchet ms" and a suitable hierarchy

Table width: 340 pixels

Border colour: #000 (black)

Caption colour: #400f18 (red/brown)

Table text colour: #000 (black)

5   **Validate** your files at W3C

Colspan and Rowspan

1   Colspan and rowspan are html's version of merging cells. It's the equivalent of merging cells in word processing software and spreadsheet software

2   Review the coding at   https://www.w3schools.com/html/html_table_colspan_rowspan.asp

3   An additional resource is located at   https://html.com/tables/rowspan-colspan/

Table 4

Colspan

table header	table header	table header
table data	table data	table data
table data	table data with colspan	
table data	table data	table data

Note: a colspan attribute is required in this table

Font: helvetica and a suitable hierarchy

Table: width 600 pixels

Border colour: #8ebbb5 (blue)

Caption colour: #475f77 (mid blue)

Table header colours: #7e062e (deep red), #d2e3e1 (blue grey)

Table text colour: #000 (black)

Table 5

Rowspan

table header	table header	table header
table data	table data	table data
table data with rowspan	table data	table data
	table data	table data
table data	table data	table data

Note: a rowspan attribute is required in this table

Font: helvetica and a suitable hierarchy

Table width: 600 pixels

Border colour: #8ebbb5 (blue)

Caption colours: #7e062e (deep red), #d2e3e1 (blue grey)

Table header colours: #475f77 (mid blue), #f1f9f8 (light blue)

Table text colour: #000 (black)

Table 6

Colspan and Rowspan		
table header	**table header**	**table header**
table data with rowspan	table data	table data
	table data	table data
table data	table data	table data
table data	table data with colspan	
table data	table data	table data

Note: a colspan attribute AND a rowspan attribute are required in this table

Font: helvetica and a suitable hierarchy

Table width: 600 pixels

Border colour: #d7d5d5 (light grey)

Caption colours: #fff (white), #393939 (dark grey)

Table header colours: #e80202 (mid red), #fff (white)

Table text colours: #f3f3f3 (light grey), #000 (black)

Table 7

Rooms at Myrtle Inn		
Room Nbrs	**Room Type**	**Cost per Night**
1-5	Garden	$90.00
6-10	Forest	$160.00
11-20	Summit	$275.00
21-22	Penthouses	$1250.00

Notes: add padding and/or cell alignment to suit the content placement within each data cell

: apply [unique] ids for the table row background colours

: apply [repeatable] classes for the table data alignments

Font: helvetica and a suitable hierarchy

Table width: 580 pixels

Caption background colour: #e1dcdb

Row background colours from top to bottom: #e6e1e0, #ede9e7, #ede8e6, #f4efed, #f9f4f2

Text colour: #000 (black)

Validate your files at W3C

Homework

Complete all tables in this tasksheet

Additional Resources

Extend your html table skills with this **comprehensive tutorial** at: https://www.linkedin.com/learning/html-tables/create-semantic-html-tables?autoplay=true&resume=false&u=57684225 (LinkedIn Learning, Jen Kramer, 1hr 35 mins duration)

When to use table coding in html pages together with building table rows at:
https://www.linkedin.com/learning/html-essential-training-4/when-to-use-tables?autoplay=true&resume=false&u=57684225 (LinkedIn Learning, Jen Simmons, 8 mins)

Accessible and responsive tables are demonstrated within the comprehensive LinkedIn Learning tutorial – use this link to jump to that section of the video
https://www.linkedin.com/learning/html-tables/responsive-tables-with-side-scrolling?autoSkip=true&autoplay=true&resume=false&u=57684225 (LinkedIn Learning, Jen Kramer, 15 mins)

The video also refers to another online resource: https://adrianroselli.com/2017/11/a-responsive-accessible-table.html