HTML Tables

An Introduction
Web Development 1
John Rellis

What is a table?

 A table is a structured set of data made up of rows and columns (tabular data). A table allows you to quickly and easily look up values that indicate some kind of connection between different types of data, for example a person and their age, or a day of the week, or the timetable for a local swimming pool.

Person	Age
Chris	38
Dennis	45
Sarah	29
Karen	47

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Public Swim 06:30 - 10:30	Public Swim 06:30 - 09:00	Public Swim 06:30 - 09:00	Public Swim 06:30 - 11:15	Public Swim 06:30 - 09:00	Lane Swim 08:00 - 09:00	Lane Swim 08:00 - 09:00
Aquacise 10:30 - 11:15	Aqua Jog 09:15 - 10:00	Education Swimming Lessons 09:00 - 12:00	Aquacise 11:15 - 12:00	Education Swimming Lessons 09:00 - 12:00	Oldham Active Kids Swimming Lessons 09:00 - 13:00	Public Swim 09:00 - 11:00
Lane Swim 11:30 - 13:00	Parent & Baby Class 09:30 - 10:15	Lane Swim 12:00 - 13:00	Lane Swim 12:00 - 13:00	Lane Swim 12:00 - 13:00	Parent and Baby 12:00 - 12:45	Aquacise 11:00 - 11:45
Education Swimming Lessons	Public Swim	Public Swim	Education Swimming Lessons	Oldham Active Kids Swimming	Public Swim	Public Swim

: The Table element

- The HTML element represents tabular data that is, information presented in a twodimensional table comprised of rows and columns of cells containing data.
- https://developer.mozilla.org/en-US/docs/Web/HTML/Element/table

```
<caption>
  Front-end web developer course 2021
 </caption>
 <thead>
   Person
   Most interest in
   Age
  </thead>
 Person
                             Most interest in
                                        Age
   Chris
   HTML tables
                        Chris
                             HTML tables
                                        22
   22
  Dennis
                             Web accessibility
                                        45
  Dennis
                             JavaScript
                        Sarah
                                        29
   Web accessibility
                             frameworks
   45
  Karen
                             Web performance
                                        36
  >
                                Average age
                                        33
   Sarah
   JavaScript frameworks
                        Front-end web developer course
   29
                                2021
  Karen
   Web performance
   36
  <tfoot>
  dtr
   Average age
   33
  </tfoot>
```

Rows and Columns

- A table is made up of rows and columns
- The intersection of rows and columns are data cells
- A row is denoted by the
- A data cell is denoted by the tag
- A will have many children

Hi, I'm your first cell.	I'm your second cell.	I'm your third cell.	I'm your fourth cell.

<thead>: The Table Head element

<caption>

- The <thead> HTML element encapsulates a set of table rows (elements), indicating that they comprise the head of a table with information about the table's columns. This is usually in the form of column headers (elements).
- The HTML element defines a cell as the header of a group of table cells and may be used as a child of the element. The exact nature of this group is defined by the scope and headers attributes.

```
Player
               Gloobles
                          Za'taak
   TR-7
                           4,569
Khiresh Odo
                           7.223
Mia Oolong
                           6,219
                   9
```

Alien football stars

```
Alien football stars
</caption>
Player
 Gloobles
 Za'taak
TR-7
 7
 4,569
Khiresh Odo
 7
 7,223
Mia Oolong
 9
 6,219
```

<a href="cap

```
<caption>
 He-Man and Skeletor facts
</caption>
He-Man
 <th scope="col"
class="skeletor">Skeletor
Role
 Hero
 Villain
Weapon
 Power Sword
 Havoc Staff
Dark secret
 Expert florist
 Cries at romcoms
```

	HE- Man	Skeletor
Role	Hero	Villain
Weapon	Power Sword	Havoc Staff
Dark secret	Expert florist	Cries at romcoms

He-Man and Skeletor facts

Scope attribute

Defines the cells that the header (defined in the) element relates to.

Possible enumerated values are:

- row: the header relates to all cells of the row it belongs to;
- col: the header relates to all cells of the column it belongs to;
- rowgroup: the header belongs to a rowgroup and relates to all of its cells;
- colgroup: the header belongs to a colgroup and relates to all of its cells.
- If the scope attribute is not specified, or its value is not row, col, rowgroup, or colgroup, then browsers automatically select the set of cells to which the header cell applies.

```
<caption>
  He-Man and Skeletor facts
 </caption>
 He-Man
  <th scope="col"
class="skeletor">Skeletor
 HE-
  Role
                                    Skeletor
                               MAN
  Hero
  Villain
                          Role
                               Hero
                                     Villain
 Power
  Weapon
                          Weapon
                                    Havoc Staff
                               Sword
  Power Sword
  Havoc Staff
                          Dark
                               Expert
                                     Cries at
 secret
                               florist
                                     romcoms
 Dark secret
                           He-Man and Skeletor facts
  Expert florist
  Cries at romcoms
```

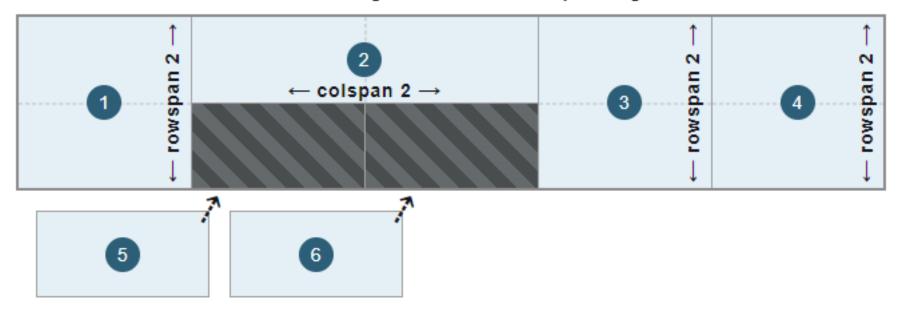
rowspan

- Contains a non-negative integer value that indicates for how many rows the data cell spans or extends.
- The default value is 1; if its value is set to 0, it extends until the end of the table grouping section (<thead>, , <tfoot>, even if implicitly defined), that the cell belongs to. Values higher than 65534 are clipped to 65534.

colspan

- Contains a non-negative integer value that indicates how many columns the data cell spans or extends.
- The default value is 1. User agents dismiss values higher than 1000 as incorrect, setting to the default value (1).

Illustration demonstrating column and row spanning of table cells



```
<!DOCTYPE html>
<html>
<head>
<style>
table, th, td {
 border: 1px solid black;
 border-collapse: collapse;
</style>
</head>
<body>
<h2>Cell that spans two columns</h2>
To make a cell span more than one column, use the colspan attribute.
Name
  Age
 Jill
  Smith
  43
 Eve
  Jackson
  57
 </body>
```

</html>

	Age	
Jill	Smith	43
Eve	Jackson	57

```
<!DOCTYPE html>
<html>
<head>
<style>
table, th, td {
 border: 1px solid black;
 border-collapse: collapse;
</style>
</head>
<body>
<h2>Cell that spans two rows</h2>
To make a cell span more than one row, use the rowspan attribute.
Name
  Jill
 Phone
  555-1234
 555-8745
 </body>
```

</html>

Name	Jill
Phone	555-1234
rnone	555-8745

Bulma Table

Pos	Team	.P.ld	.W.	Ď	Ļ	<u>G</u> F	.GA	GD	Pts	Qualification or relegation
1	Leicester City (C)	38	23	12	3	68	36	+32	81	Qualification for the Champions League group stage
2	Arsenal	38	20	11	7	65	36	+29	71	Qualification for the Champions League group stage
3	Tottenham Hotspur	38	19	13	6	69	35	+34	70	Qualification for the Champions League group stage
4	Manchester City	38	19	9	10	71	41	+30	66	Qualification for the Champions League play-off round
5	Manchester United	38	19	9	10	49	35	+14	66	Qualification for the Europa League group stage
6	Southampton	38	18	9	11	59	41	+18	63	Qualification for the Europa League group stage
								+14	62	Qualification for the Europa League third qualifying round

The inevitable HTML table, with special case cells +13 60 -14 51 50 +6 You can create a **Bulma table** simply by attaching a single table CSS class on a HTML element with the following structure: -10 47 as the main container -10 45 o thead the optional top part of the table tfoot the optional **bottom** part of the table -14 43 tbody the main content of the table -12 42 tr each table row -22 42 th a table cell heading -14 39 td a table cell Relegation to the Football League Championship You can set a table row as **selected** by appending the is-selected modifier on a Relegation to the Football League Championship -28 Aston Villa (R) Relegation to the Football League Championship Qualification or relegation Team

Home Artists Songs About

Chill



1 Dotify

Title	Artist	Duration
Remurdered	Mogwai	6:26
Your Hand in Mine	Explosions in the Sky	8:17
Undertow	Lisa Hannigan	3:24

A playlist to chill to

Play Open Remove

```
<thead>
 Title
  Artist
  >Duration
 </thead>
Remurdered
  Mogwai
  6:26
 Your Hand in Mine
  Explosions in the Sky
  8:17
 Undertow
  Lisa Hannigan
  3:24
```

Title	Artist	Duration
Remurdered	Mogwai	6:26
Your Hand in Mine	Explosions in the Sky	8:17
Undertow	Lisa Hannigan	3:24

Notice the repetition

Iterate an array of objects

```
window.dotify.components.createPlaylistList = (songs = []) => {
  let songsToRows = '';
  for (let i = 0; i < songs.length; i++) {
     songsToRows += `
     ${songs[i].title}
        ${songs[i].artist}
        ${songs[i].duration}
     `:
  return
  <div class="column is-8">
     <thead>
           Title
             Artist
             Duration
           </thead>
        ${songsToRows}
        </div>`;
```



```
window.dotify.components.createPlaylistList = (songs = []) => {
   console.log(songs);
   const songsToRows = songs.map(song => {
     return `
     ${song.title}
        ${song.artist}
        $\song.duration}
     `
   });
   return
   <div class="column is-8">
     <thead>
           Title
             Artist
              Duration
           </thead>
        ${songsToRows.join()}
        </div>
```