

Caltech Center for Technology & Management Education

Full Stack Java Developer

HTML

Tables in HTML



Learning Objectives

By the end of this lesson, you will be able to:

- Create a basic structure for the website
- Understand the importance of using tables to arrange complicated information
- Learn to practice various operations on tables



Learning Objectives

By the end of this lesson, you will be able to:

- Learn how to change the table colors using the various tags available in HTML
- Learn to insert captions in a table
- Learn to use the table tag and text wrapping to create a table in HTML



A Day in the Life of a Full Stack Developer

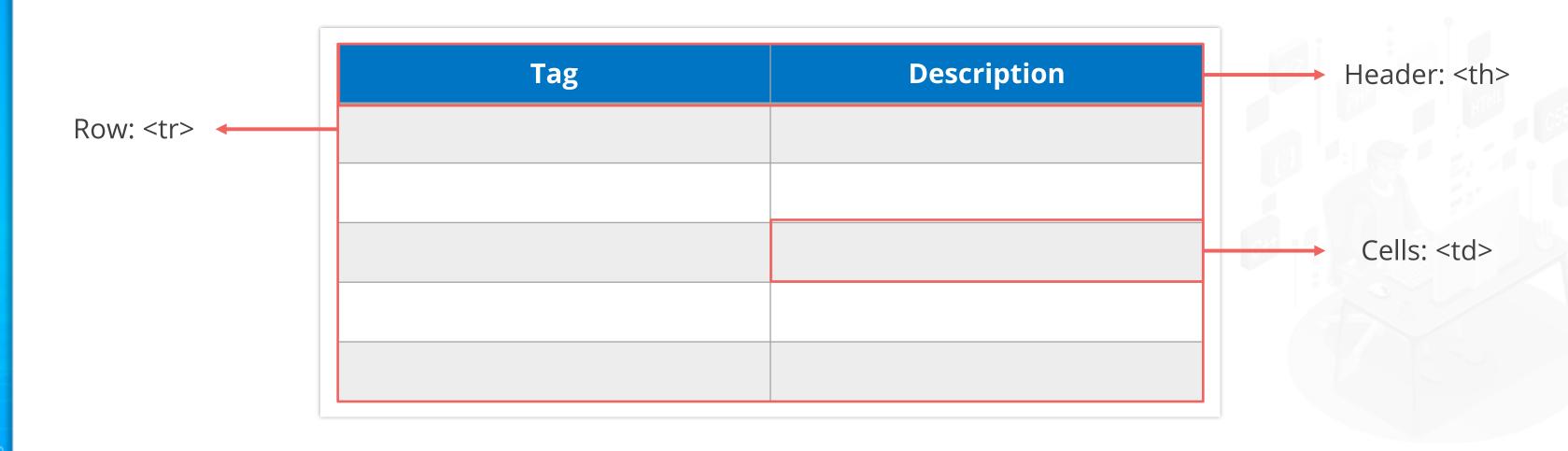
You have been hired as a full-stack developer to work on an employee management web application project that uses HTML and CSS. The organization stores data about its employees and the companies they work for in tables.

Your task is to display this data in the web application. To accomplish this, you need to understand how tables work in HTML.



Table Tag

The tag is used to create a table in HTML.



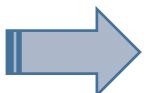
tag can hold a variety of HTML elements other than text.

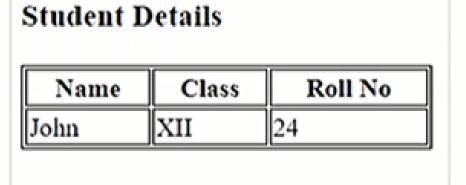


Example: Creating a table containing student details:

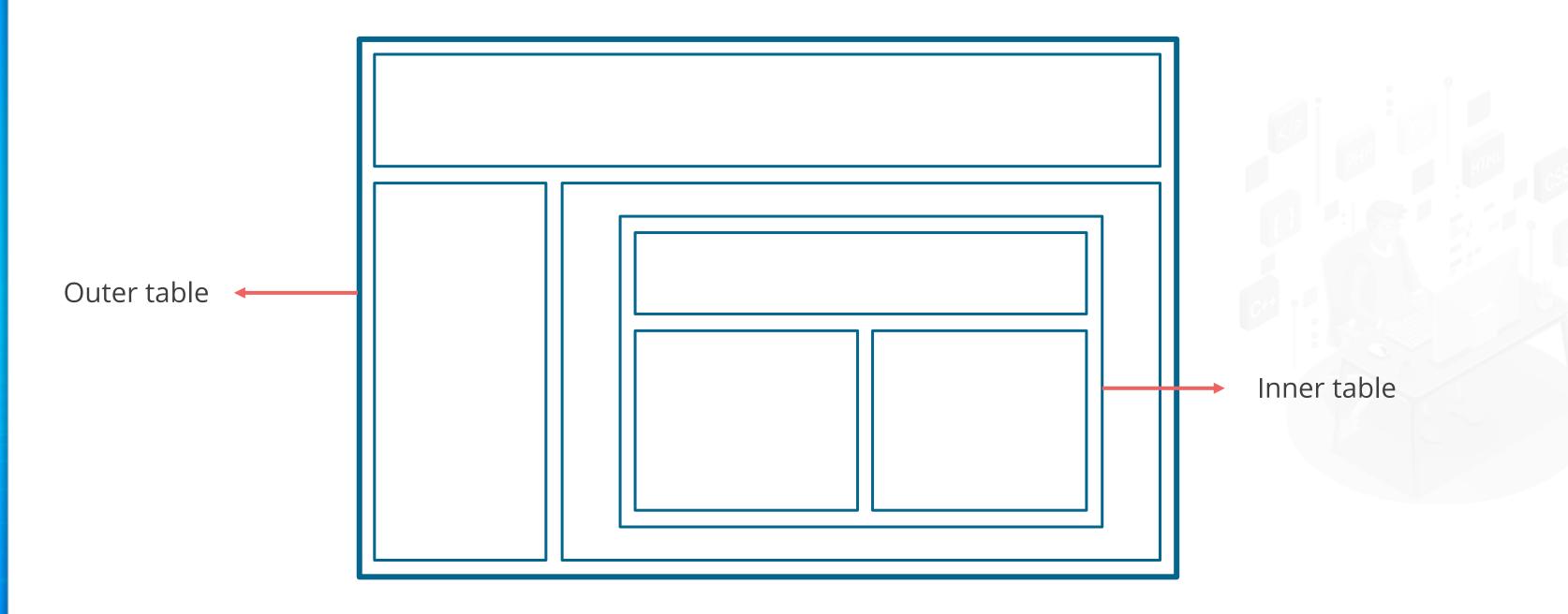
```
<!DOCTYPE html>
<html>
<style>
table, th, td {
border:1px solid black;
</style>
<body>
<h3>Student Details</h3>
Name
    Class
    Roll No 
 John
    XII
    24 
 </body> </html>
```

Output





Tables help to organize content in rows and columns.



To create a nested table, build a table with the tag.

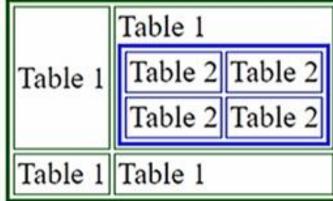


Example:

```
<!DOCTYPE html>
<html>
<body>
Table 1
Table 1

Table 2
Table 2
Table 2
Table 2
 Table 1 
Table 1 
</body></html>
```

Output



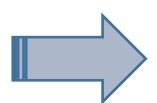


Table Background Color

Cascading Style Sheets (CSS) are used to define the table background color.

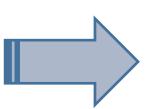
It is used to change the color of a table, row, column, or even a single cell.

Tag	Description

Example:

```
HeaderHeader
OnidaBPL
LGSamsung
```

Output



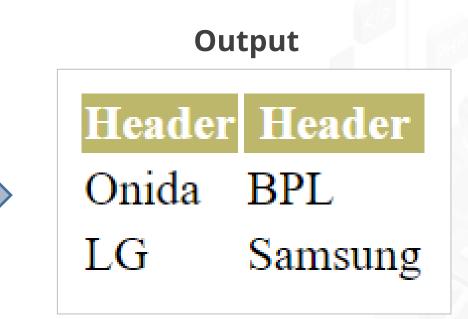
Header Header

Onida BPL

LG Samsung

Changing the color of a row:

```
color:#BDB76B;color:#ffffff;">
HeaderHeader
OnidaBPL
LGSamsung
```



The <colgroup> and <col> elements are used to change the background color of a column.

It should be added after the <caption> element.

Tag	Description	

Note

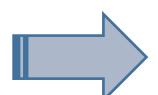
<colgroup> tag must be a child of a element.



Changing the color of a column:

```
<colgroup>
  <col>
  <col style="background-color:</pre>
yellow">
 </colgroup>
HeaderHeader
OnidaBPL
LGSamsung
```

Output



Header Header

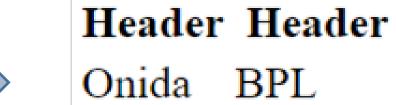
Onida BPL

LG Samsung

Changing the color of a cell:

```
HeaderHeader
OnidaBPL
LG<td style="background-
color:#ff0000;">Samsung
```

Output



LG

Samsung

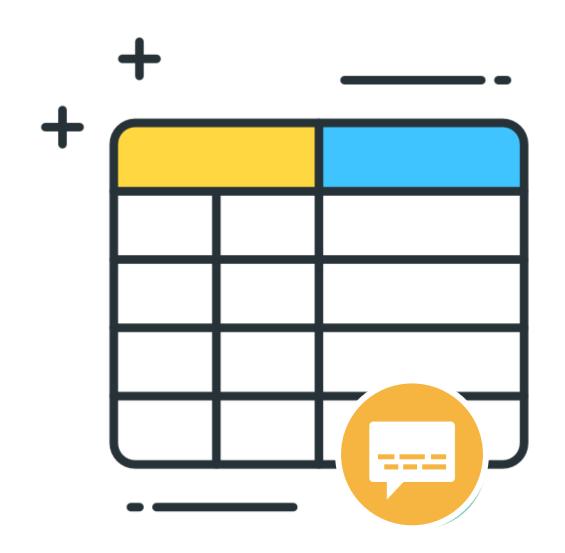


Adding Caption to a Table

Adding Caption to a Table

Adding captions to a table makes it more readable.

The caption provides a description of the data in the table.





Caption

To insert a caption, use this syntax:

```
  <caption></caption>
```

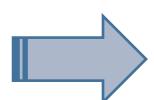


Caption

Example: Using certain values:

```
<caption>Vehicles demand monthly
basis</caption>
May
 June
 July
 August
Maruti
 Tata
 Honda
 Toyota
```

Output



Vehicles demand monthly basis

May	June	July	August
Maruti	Tata	Honda	Toyota

Merging Cells

Merging Cells

To merge table cells, the Rowspan and Colspan attributes are used.

The Colspan merges column cells.

The Rowspan links or combines the number of cells in a row.

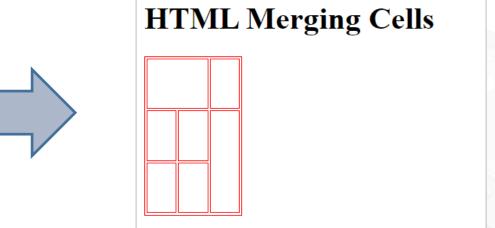
Tag	Description

Merging Cells

Example

```
<!DOCTYPE html>
<html><head><style>
     table, th, td {
      border: 1px solid red;
      width: 100px;
      height: 50px;
      </style> </head>
 <body>
   <h1>HTML Merging Cells</h1>
   </body></html>
```

Output





Text Wrapping

Text Wrapping

Text wrapping can be done with the word-wrap property.

```
<!DOCTYPE html>
<html> <head><style>
div{
width:100%;
border: 1px solid black;
div.a{
word-wrap: break-word;
</style></head>
<body>
<h3>Word - wrap example </h3>
<div class="a">Word-wrap is used for the
purpose of wrapping. </div>
</body> </html>
```

Output

Word - wrap example

Word- wrap is used only for the wrapping purpose only in this. The word-wrap property allows long words to be able to be broken and wrap onto the next line.

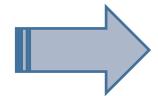
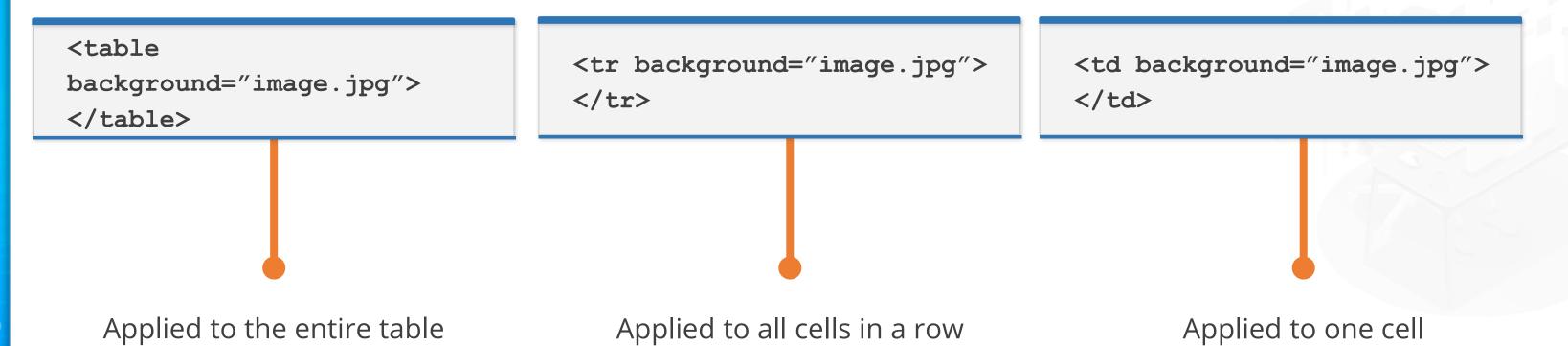


Table Background Image

Table Background Image

Use background attributes to a web page or an HTML element

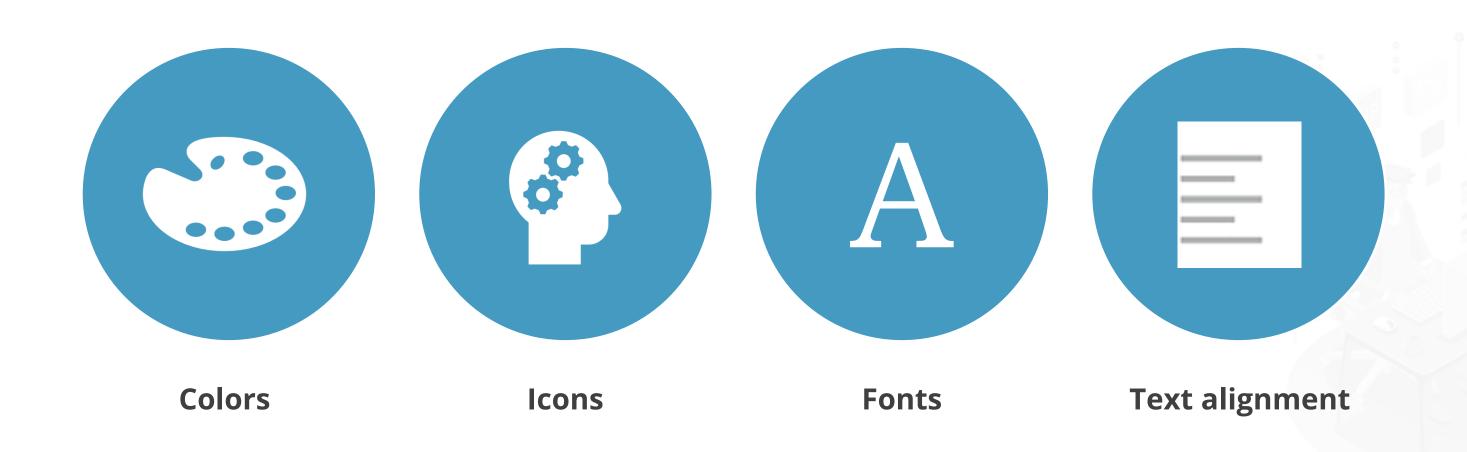
Set the background images inside the or tags



Cell Alignment

Cell Alignment

The parameters which influence the content's readability are:



Content should be aligned using the valign and align attributes of the TR and TD (TH) elements.

Cell Alignment: Example

```
 : Applied to all cells in a row
 : Applied to one cell
<!DOCTYPE html>
<html>
<head></head>
<body>
Left
Top
</body>
</html>
```

Key Takeaways

- The tag is used to create a table in HTML.
- Cascading Style Sheets (CSS) are used to define the table background color.
- The <colgroup> and <col> elements are used to change the background color of a column.
- To merge table cells, the rowspan and colspan attributes are used.
- Text wrapping can be done with the word-wrap property.
- Content should be aligned using the valign and align attributes of the TR and TD (TH) elements.



Thank You