ENSF 381 Full Stack Web Development

Lecture 07:

Tables

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What is HTML table?

 HTML table is a structured set of data organized in rows and columns.

• It is created using the element in HTML.

- Tables allow us to:
 - Organize and display data in a structured format.
 - Structure the layout of the webpage.

What is HTML table?

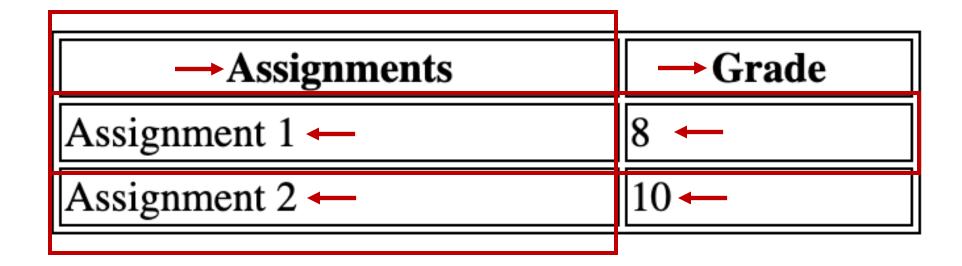


Table structure

Table (): the container element for the entire table.

Table row (): defines a row in the table.

• Table header (): defines header cells in a table. Header cells are typically placed in the first row or first column of the table and contain labels or headings.

 Table data (): defines data cells in a table. These cells contain the actual data of the table.

Table - example

```
<!DOCTYPE html>
<html>
<head>
<title>Tables</title>
</head>
<body>
Assignments
  Grade
 Assignment 1
  8
 Assignment 2
  10
 </body></html>
```

Table - example



Assignments Grade

Assignment 1 8

Assignment 2 10

Adding borders to the table - example

```
<body>
>
 Assignments
 Grade
>
 Assignment 1
 8
>
 Assignment 2
 10
</body>
```

Adding borders to the table - example



Adding another row - example

```
Assignments
  Grade
 >
  Assignment 1
  8
 Assignment 2
  10
 Adding a new row
  9
```

JSBin

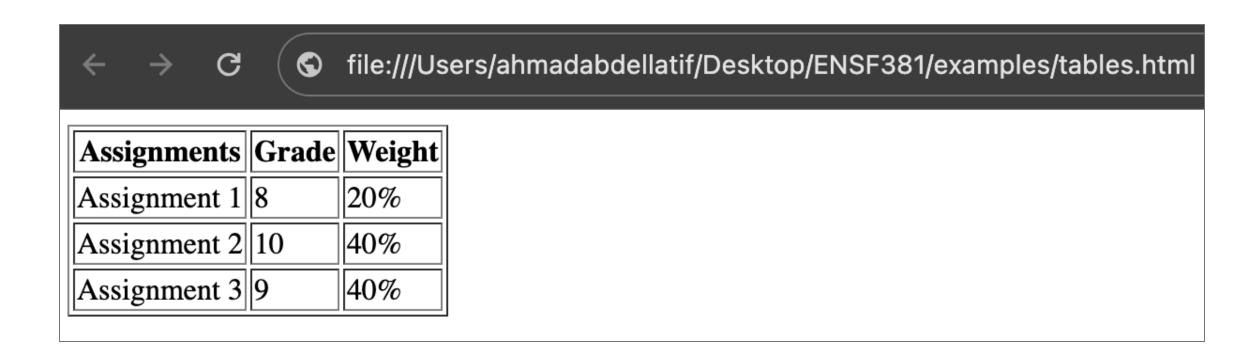
Adding another row - example



Adding another column - example

```
Assignments
 Grade
 >Weight ←
 Assignment 1
 8
  20%  ←
Assignment 2
 10
  40%  ←
Assignment 3
 9
  40%  ←
```

Adding another column - example



What is the output?

```
Assignments
 Grade
 Weight
 Assignment 1
 8
  20% 
Assignment 2
 10
 <del> 40% </del> ←
Assignment 3
 9
 40%
```

What is the output?

Assignments	Grade	Weight
Assignment 1	8	20%
Assignment 2	10	
Assignment 3	9	40%

Table styling attributes

• Table Border (border): add double borders to the table.

• Single border (border-collapse): add a single border to the table.

 Background color (bgcolor): change the background color of the table or cell.

 Size (width or height): specify the size of a table, row or column.

Table styling - example

```
<body>
>
 Assignments
 Grade
 Weight
Assignment 1
 8
  20% 
Assignment 2
 10
 40% 
</body>
```

Table styling - example

Assignments	Grade	Weight
Assignment 1	8	20%
Assignment 2	10	40%

Merging cells

 Combining two or more adjacent table cells into a single, larger cell.

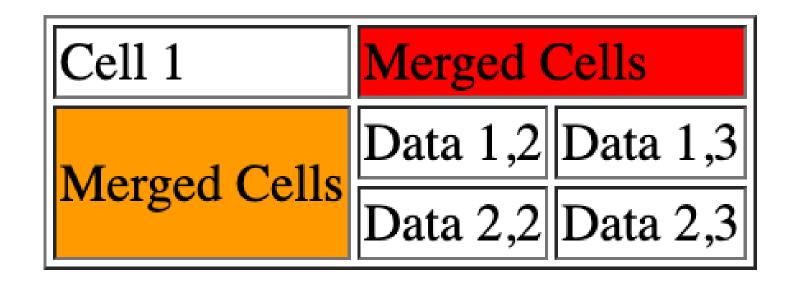
 This can be done either horizontally (using the colspan attribute) or vertically (using the rowspan attribute).

 Useful technique when you want to create a more complex layout or represent data in a way that requires spanning across multiple rows or columns.

Merging cells - example

```
>
 Cell 1
>
Merged Cells
 Data 1,2
 Data 1,3
>
 Data 2,2
 Data 2,3
```

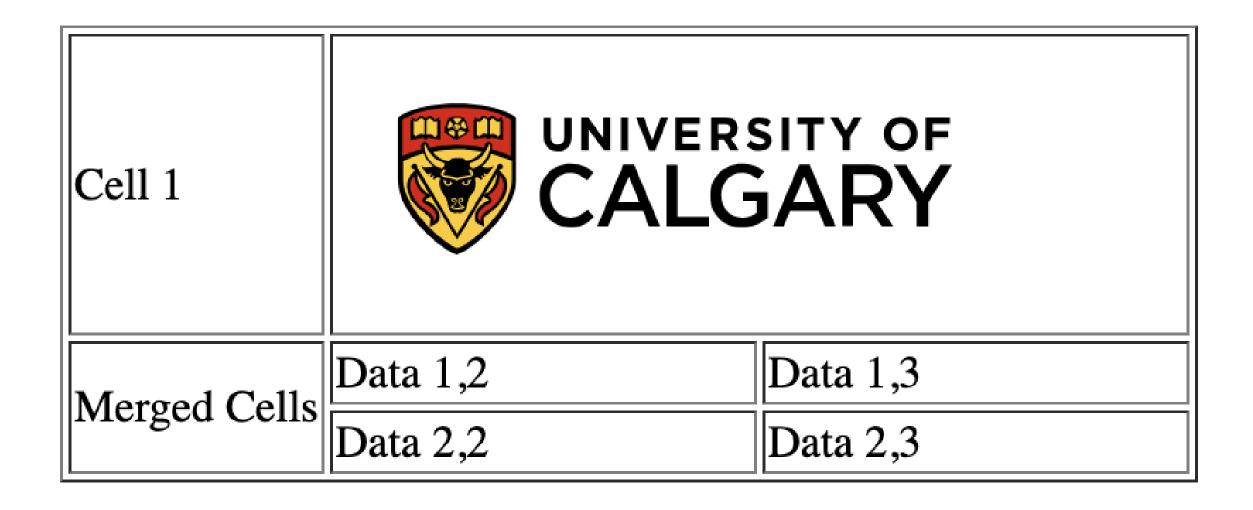
Merging cells - example



Adding a picture to a table - example

```
Cell 1
  <img src="https://ucalgary.ca/themes/ucalgary/ucws_theme/images/UCalgary.svg"</pre>
width="80%" height="50%">
  Merged Cells
  Data 1,2
  Data 1,3
 Data 2,2
  Data 2,3
```

Adding a picture to a table - example



Questions

Assignment 1

• The assignment is available on D2L.

Teams are limited to a maximum of two students.

• Deadline: Feb 7th, 2025 at 11:59 PM