# Web Design with HTML5 & CSS3

Chapter 8

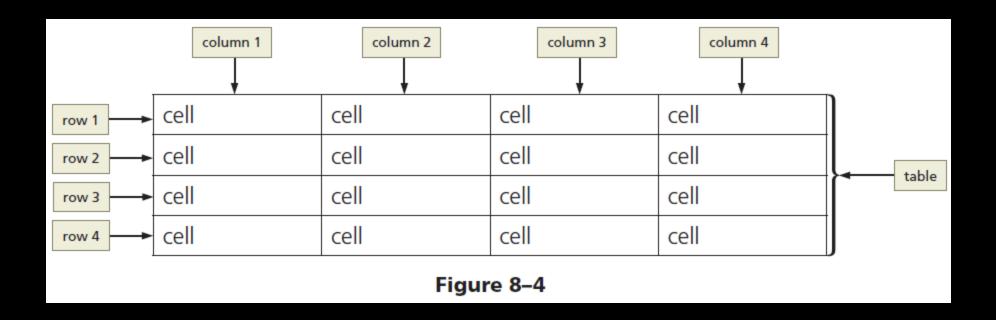
Creating Tables

### Chapter Objectives

- Define table elements
- Describe the steps used to plan, design, and code a table
- Create a table with rows and data
- Insert a table caption

### Tables

- · Consist of rows, columns, and cells
  - · Cell Intersection of a row and a column that usually contains data
  - · Should not be used to design a layout for a webpage



## Creating a Table with HTML Elements

- Creating a table:
  - and tags indicate the starting/ending of a table
  - and tags
    - Starting/ending of table header
    - · Displays text as bold and center-aligned
  - and tags indicate the starting/ending of each table row
  - and tags
    - Starting/ending tags for data elements within the table row elements
    - Displays normal, left-aligned text

### Basic Table Structure

```
15
15
30
45
60
90
```

15 15 30

45 60 45

### Table Structure - tag

```
15
15
30
45
60
90
```

15 15 30 45 60 45

### Table Structure - tag

```
>
15
15
30
>
45
60
90
```

15 15 30

45 60 45

### Table Structure - tag

```
15
15
30
45
60
45
```

15 15 30

45 60 45

### Table Headings - tag

Tickets sold

#### **Saturday Sunday**

Tickets sold: 120 135

### Table Borders - Default

- Table Border the line that defines the perimeter of the table
- By default, a table is displayed without a border

```
<!DOCTYPE html>
<html>
<body>
<h2>Basic HTML Table</h2>
Firstname
 Lastname
 Age
Jill
 Smith
 50
Eve
 Jackson
 94
John
 Doe
 80
</body>
</html>
```

#### **Basic HTML Table**

#### Firstname Lastname Age

Jill Smith 50

Eve Jackson 94

John Doe 80

### Table Borders

• A border is set using the CSS border property:

```
table, th, td {
   border: 1px solid black;
}
```

### Table Borders – Default Borders

• By default, each cell has its own border, making the table appear to have double lines between each table data cell

#### **Bordered Table**

Use the CSS border property to add a border to the table.

Firstname	Lastname	Age
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

```
<!DOCTYPE html>
<html>
<head>
<style>
table, th, td {
  border: 1px solid black;
</style>
</head>
<body>
<h2>Bordered Table</h2>
Use the CSS border property to add a border to the table.
Firstname
  Lastname
  Age
 Jill
  Smith
  50
 Eve
  Jackson
  94
 John
  Doe
  80
 </body>
</html>
```

#### **Bordered Table**

Use the CSS border property to add a border to the table.

Firstname	Lastname	Age
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

### Table Borders – Collapsed Borders

• To collapse the borders into one border, add the CSS border-collapse property:

```
table, th, td {
    border: 1px solid black;
    border-collapse: collapse;
}
```

```
<html>
<head>
<style>
table, th, td {
  border: 1px solid black;
  border-collapse: collapse;
</style>
</head>
<body>
<h2>Collapsed Borders</h2>
If you want the borders to collapse into one border, add the CSS border-collapse property.
Firstname
  Lastname
  Age
                          Collapsed Borders
 Jill
```

<!DOCTYPE html>

Smith
50

Eve

>Jackson

94

John
Doe
0

80
0

</body>

If you want the borders to collapse into one border, add the CSS border-collapse property.

Firstname	Lastname	Age
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

### Table Borders – Cell Padding

- Specifies the space between the cell content and its borders
- Default is no cell padding
- To set the CSS padding property:

```
th, td {
   padding: 15px;
}
```

```
<!DOCTYPE html>
<html>
<head>
<style>
table, th, td {
  border: 1px solid black;
  border-collapse: collapse;
</style>
</head>
<body>
<h2>Default Cellpadding</h2>
Cell padding specifies the space between the cell content and its borders.
Firstname
  Lastname
  Age
 Jill
  Smith
  50
 Eve
  Jackson
  94
 John
  Doe
  80
 </body>
</html>
```

#### **Default Cell Padding**

Cell padding specifies the space between the cell content and its borders.

Firstname	Lastname	Age
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

```
<html>
<head>
<style>
table, th, td {
  border: 1px solid black;
  border-collapse: collapse;
th, td {
  padding: 15px;
</style>
</head>
<body>
<h2>Table with Cell Padding</h2>
Cell padding specifies the space between the cell content and its borders.
Firstname
  Lastname
  Age
 Jill
  Smith
  50
 Eve
  Jackson
  94
 John
  Doe
  80
 </body>
</html>
```

#### **Table with Cell Padding**

Cell padding specifies the space between the cell content and its borders.

Firstname	Lastname	Age
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

### Table Headings - Default

• By default, table headings are bold and centered

#### **Table with Cell Padding**

Cell padding specifies the space between the cell content and its borders.

Firstname	Lastname	Age
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

### Table Headings – Left-align

• Use the CSS text-align property:

```
th {
    text-align: left;
}
```

```
<style>
table, th, td {
  border: 1px solid black;
  border-collapse: collapse;
th, td {
  padding: 5px;
th {
  text-align: left;
</style>
</head>
<body>
<h2>Left-align Headings</h2>
To left-align the table headings, use the CSS text-align property.
Firstname
  Lastname
  Age
 Jill
  Smith
  50
 Eve
  Jackson
  94
 John
  Doe
  80
```

#### **Left-align Headings**

To left-align the table headings, use the CSS text-align property.

Firstname	Lastname	Age
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

### Table Border Spacing

- Specifies the space between the cells
- Use the CSS border-spacing property:

```
table {
    border-spacing: 5px;
}
```

```
<style>
table, th, td {
  border: 1px solid black;
  padding: 5px;
table {
  border-spacing: 15px;
</style>
</head>
<body>
<h2>Border Spacing</h2>
Border spacing specifies the space between the cells.
Firstname
  Lastname
  Age
 Jill
  Smith
  50
 Eve
  Jackson
  94
 John
  Doe
  80
```

#### **Border Spacing**

Border spacing specifies the space between the cells.

Firstname	Lastname	Age
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

### Spanning Columns – colspan attribute

•••

	9am	10am	11am	12am
Monday	Geography		Math	Art

```
<!DOCTYPE html>
<html>
<head>
<style>
table, th, td {
   border: 1px solid black;
   border-collapse: collapse;
th, td {
   padding: 5px;
   text-align: left;
</style>
</head>
<body>
<h2>Cell that spans two columns</h2>
To make a cell span more than one column, use the colspan attribute.
Name
   Telephone
 Betty Smith
   55577854
   55577855
 </body>
</html>
```

#### Cell that spans two columns

To make a cell span more than one column, use the colspan attribute.

Name	Telephone	
Betty Smith	55577854	55577855

### Spanning Rows - rowspan attribute

Current Affairs

```
• • •
 6pm - 7pm
  Movie
  Comedy
  News
                6pm - 7pm
                             Comedy
                                    News
                      Movie
 7pm - 8pm
                                    Current Affairs
                             Sport
 7pm - 8pm
  Sport
```

```
<!DOCTYPE html>
<html>
<head>
<style>
table, th, td {
   border: 1px solid black;
   border-collapse: collapse;
th, td {
  padding: 5px;
   text-align: left;
</style>
</head>
<body>
<h2>Cell that spans two rows</h2>
To make a cell span more than one row, use the rowspan attribute.
Name:
   Betty Smith
 Telephone:
   55577854
 55577855
 </body>
```

</html>

#### Cell that spans two rows

To make a cell span more than one row, use the rowspan attribute.

Name:	Betty Smith
Talanhana	55577854
Telephone:	55577855

### Table Caption

- A descriptive text that serves as a title or identifies the table's purpose
- Defined with <aption> and </aption> tags
- Inserted immediately after the tag
- A table can have only one caption
- · Tables can include headers and captions individually or in combination

### Table Caption

<caption>Monthly savings</caption>



```
<!DOCTYPE html>
<html>
<head>
<style>
table, th, td {
  border: 1px solid black;
  border-collapse: collapse;
th, td {
  padding: 5px;
  text-align: left;
</style>
</head>
<body>
<h2>Table Caption</h2>
To add a caption to a table, use the caption tag.
<caption>Monthly savings</caption>
 Month
   Savings
 January
  $100
 February
  $50
 </body>
```

</html>

#### **Table Caption**

To add a caption to a table, use the caption tag.

#### Monthly savings

Month	Savings
January	\$100
February	\$50

### Styling a Table

• Use the id attribute to style a table

```
table#t01 {
    width: 100%;
    background-color: #f1f1c1;
}
```

```
Firstname
 Lastname
 Age
Eve
 Jackson
 94
```

```
<style>
table, th, td {
    border: 1px solid black;
    border-collapse: collapse;
}
th, td {
    padding: 15px;
    text-align: left;
}
table#t01 {
    width: 100%;
    background-color: #f1f1c1;
}
</style>
```

```
Firstname
 Lastname
 Age
Jill
 Smith
 50
Eve
 Jackson
 94
John
 Doe
 80
```

Firstname	Lastname	Age
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

Firstname	Lastname	Age
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

```
<style>
table {
    width:100%;
table, th, td {
    border: 1px solid black;
    border-collapse: collapse;
th, td {
    padding: 15px;
    text-align: left;
table#t01 tr:nth-child(even) {
    background-color: yellow;
table#t01 tr:nth-child(odd) {
   background-color: lightblue;
table#t01 th {
    background-color: black;
    color: white;
</style>
```

```
<h2>Styling Tables</h2>
Firstname
 Lastname
 Age
Jill
 Smith
 50
Eve
 Jackson
 94
John
 Doe
 80
```

#### **Styling Tables**

Firstname	Lastname	Age
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

### This week

- Chapter 8 Tables only
- Forms is next week