

Web Accessibility and Table

Web Technologies



Lecture by
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```
<!doctype html>
<html>
  <head>
    <title>
      Web Technologies
    </title>
    <style>
      p {
        color: blue;
      }
    </style>
    <script>
      console.log("client-side");
    </script>
  </head>
  <body>
    <p>
      Welcome!
    </p>
  </body>
</html>
```


What we will cover

- **Web Accessibility**
- **Table structural elements**
 - `<thead>`
 - `<tbody>`
 - `<tfoot>`
- **Table style**
- **Table pseudo-classes**
- **Table caption**

Web Accessibility

- **Semantic elements**
- **Link**
 - Title attribute
 - :hover and :focus pseudo-classes
 - `a:hover, a:focus {color: green;}`
- **Image**
 - For decorative image: alt = “ ”
- **Colour**

Table Structural Elements

<table>

<thead>

</thead>

<tbody>

</tbody>

<tfoot>

</tfoot>

</table>

Book	Year Published	Sales
PHP and MySQL	2017	\$372,381
JavaScript and jQuery	2020	\$305,447
Python Programming	2021	\$292,444
Python Data Analysis	2021	\$328,992
Total Sales		\$1,399,264

<thead>

<thead>

<tr>

<th>Book</th>

<th>Year published</th>

<th>Total sales</th>

</tr>

</thead>

Book	Year Published	Sales
PHP and MySQL	2017	\$372,381
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Python Data Analysis	2021	\$328,992
Total Sales		\$1,399,264

<tbody>

<tbody>

<tr>

<td>PHP and MySQL</td>

<td>2017</td>

<td>\$372,381</td>

</tr>

...

</tbody>

Book	Year Published	Sales
PHP and MySQL	2017	\$372,381
JavaScript and jQuery	2020	\$305,447
Python Programming	2021	\$292,444
Python Data Analysis	2021	\$328,992
Total Sales		\$1,399,264

<tfoot>

<tfoot>

<tr>

<th>Total Sales</th>

<td></td>

<td>\$1,399,264</td>

</tr>

</tfoot>

Book	Year Published	Sales
PHP and MySQL	2017	\$372,381
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Table Style

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CSS Properties

- border-collapse
- border-spacing
- padding
- text-align
- vertical-align

table

```
border: 1px solid black;  
border-collapse: collapse; }
```

th, td {

```
border: 1px solid black;  
padding: .2em .7em;  
text-align: right; }
```

```
thead, tfoot { background-color: lightgreen; }
```

```
tfoot { font-weight: bold; }
```

The Class Attribute

```
<table>
  <thead>
    <tr> <th class="left">Book</th> ...</tr> </thead>
  <tbody>
    <tr> <td class="left">PHP and MySQL</td>...</tr>
    <tr><td class="left">JavaScript and jQuery</td>...</tr>
    <tr><td class="left">Python Programming</td>...</tr>
    <tr><td class="left">Python Data Analysis</td>...</tr>
  </tbody>
  <tfoot>
    <tr><th class="left">Total Sales</th>...</tr>
  </tfoot>
</table>
```

th.left, td.left

{ text-align: left; }

Book	Year Published	Sales
PHP and MySQL	2017	\$372,381
JavaScript and jQuery	2020	\$305,447
Python Programming	2021	\$292,444
Python Data Analysis	2021	\$328,992
Total Sales		\$1,399,264

Table Pseudo-classes

```
th:first-child, td:first-child {  
    text-align: left;}  
th:nth-child(2), td:nth-child(2) {  
    text-align: center;}  
tbody tr:nth-child(even) {  
    background-color: lightyellow;}
```

Book	Year Published	Sales
PHP and MySQL	2017	\$372,381
JavaScript and jQuery	2020	\$305,447
Python Programming	2021	\$292,444
Python Data Analysis	2021	\$328,992
MySQL	2019	\$351,200
SQL Server 2019	2020	\$404,332
Total Sales		\$2,054,786

Table Pseudo-class Selectors

:nth-child(n)

:nth-last-child(n)

:nth-of-type(n)

:nth-last-of-type(n)

Typical n Values:

- Odd
- Even
- N
- $3n$
- $2n+1$
- $3n+1$

Table Caption

<figure>

<figcaption>Total Sales by Book</figcaption>

<table>

...

</table>

</figure>

Total Sales by Book

Book	Year Published	Sales
PHP and MySQL	2017	\$372,381
JavaScript and jQuery	2020	\$305,447
Python Programming	2021	\$292,444
Python Data Analysis	2021	\$328,992
Total Sales		\$2,054,786

CSS Rule Sets For Table and Figures

```
figure, figcaption { margin: 0; padding: 0; }
figure {
    border: 1px solid black; width: 450px; padding: 15px; }
figcaption {
    display: block; font-weight: bold; text-align: center;
    font-size: 120%;
    padding-bottom: .25em; }
table { border-collapse: collapse; border: 1px solid black;
    margin: 10px auto; }
```

Try It Yourself

In this activity you can practice how to create a table in HTML and style it with CSS. So:

1. Inside the body element insert the table element and create the table shown in slides 4, 5, 6, 7 and 8.
2. Use the CSS rule set in slides 9, 10 and 11 to style your table.
3. Save and open the webpage in your browser and make sure the table is the same as the one shown in slide 9.