4478 – INTRODUCTION TO INFORMATION TECHNOLOGY. 8936 – INTRODUCTION TO INFORMATION TECHNOLOGY G.

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Learning Objectives

- 1 Create a basic table with the table, table row, table header, and table cell elements
- 2 Configure table sections with the thead, thody, and thoo elements
- 3 Increase the accessibility of a table
- 4 Style an HTML table with CSS
- 5 Describe the purpose of CSS structural pseudo-classes

HTML Table

Tables are used on web pages to organize tabular information

Composed of rows and columns – similar to a spreadsheet.

Each individual table cell is at the intersection of a specific row and column.

Configured with table, tr, and td elements

Name	Birthday	Phone
Jack	5/13	857-555-5555
Sparky	11/28	303-555-5555

HTML Table Elements

- Contains the table
- Contains the table row
- Contains the table cell
- <caption>
 Configures a description of the table

Name Date Bobolink 5/25/10 Upland Sandpiper 6/03/10

HTML Table Example 1 (1 of 2)

```
<caption>Bird Sightings</caption>
Name
Date
Bobolink
```

HTML Table Example 1 (2 of 2)

```
5/25/10
Upland Sandpiper
6/03/10
```

Bird Sightings

Name	Date
Bobolink	5/25/10
Upland Sandpiper	6/03/10

HTML Table Example 2 (1 of 2)

```
>
Name
Birthday
James
11/08
```

HTML Table Example 2 (2 of 2)

```
>
Karen
4/17
>
Sparky
11/28
```

Using the Element

Name	Birthday
James	11/08
Karen	4/17
Sparky	11/28

HTML Table Attributes

- align (obsolete)
- bgcolor (obsolete)
- border
- cellpadding (obsolete)
- cellspacing (obsolete)
- summary (obsolete but may be reinstated)
- width (obsolete)

Use CSS to configure table characteristics instead of HTML attributes

HTML Common Table Cell Attributes

- align (obsolete)
- bgcolor (obsolete)
- colspan
- rowspan
- valign (obsolete)
- height (deprecated)
- width (deprecated)

Use CSS to configure most table cell characteristics instead of HTML attributes

HTML Colspan Attribute

```
Birthday List
James
11/08
Karen
4/17
```



HTML Rowspan Attribute

```
>
This spans two rows
Row 1 Column 2
>
Row 2 Column 2
```

This spans two rows Row 1 Column 2
Row 2 Column 2

Accessibility and Tables

Use table header elements (tags) to indicate column or row headings.

Use the caption element to provide a text title or caption for the table.

- Complex tables: Associate table cell values with their corresponding headers
 - tag id attribute
 - tag headers attribute

Table Captions

```
<caption>Bird Sightings</caption>
>
Name
Date
Bobolink
5/25/10
>
Upland Sandpiper
6/03/10
```

Bird Sightings

Name	Date
Bobolink	5/25/10
Upland Sandpiper	6/03/10

Checkpoint 1

- 1. Describe the purpose of using a table on a web page.
- 2. How is the text contained in a th element displayed by the browser?
- 3. Describe one coding technique that increases the accessibility of an HTML table.

Using CSS to Style a Table

HTML Attribute	CSS Property
Align	Center align a table: table { width: 75%; margin: auto; }
	Center align within a table cell: text-align: center;
Bgcolor	background-color
Cellpadding	Padding
Cellspacing	border-spacing or border-collapse
Height	Height
Valign	vertical-align
Width	Width
Border	border, border-style, or border-spacing
	background-image

CSS Structural Pseudo-Classes

Pseudo-class	Purpose
:first-of-type	Applies to the first element of the specified type
:first-child	Applies to the first child of an element (CSS2 selector)
:last-of-type	Applies to the last element of the specified type
:last-child	Applies to the last child of an element
:nth-of-type(n)	Applies to the "nth" element of the specified type Values: a number, odd, or even

Zebra Stripe a Table

```
tr:nth-of-type(even) { background-color: #eaeaea; }
```

Table Row Groups (1 of 2)

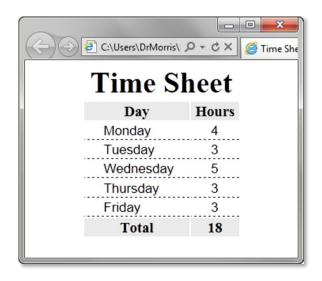
```
 <caption> Time Sheet </caption>
<thead>
Day
 Hours
</thead>
Monday
 4
```

Table Row Groups (2 of 2)

```
Friday
3
<tfoot>
Total
18
</tfoot>
```

```
<thead>
table head rows

table body rows
<tfoot>
table footer rows
```



Checkpoint 2

- 1. Describe a reason to configure a table with CSS properties instead of HTML attributes.
- 2. List three elements that are used to group table rows.

Summary

This lecture introduced the HTML and CSS techniques used to create and configure tables on web pages.