Tutorial 5 Working with Tables and Columns HTML, CSS, and Dynamic HTML

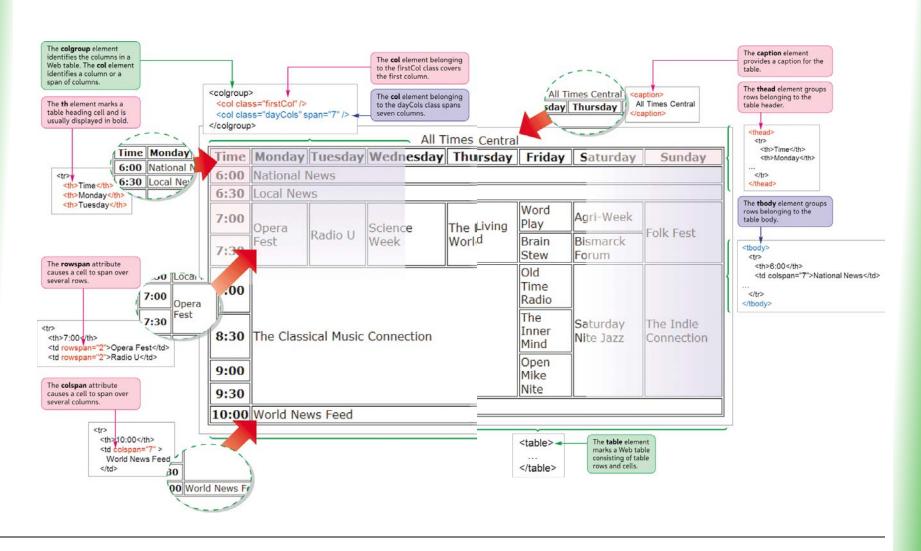
Objectives

- Explore the structure of a Web table
- Create headings and cells in a table
- Create cells that span multiple rows and columns
- Create row and column groups
- Add a summary to a table

Objectives

- Format a table using HTML attributes
- Format a table using CSS styles
- Collapse table borders
- Display page elements in tabular form
- Create a multi-column layout

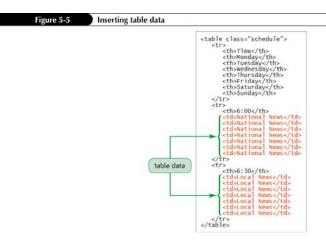
Structure of a Web Table

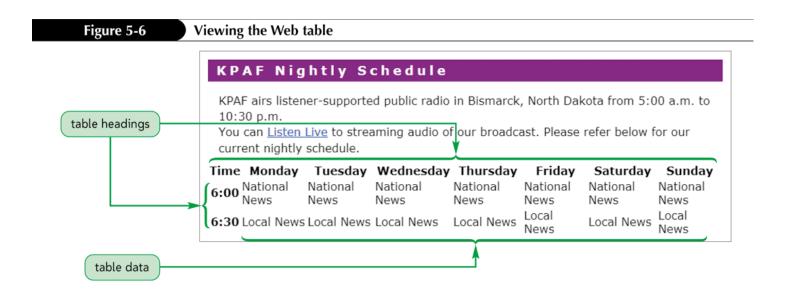


 Each table in a Web page follows a basic structure consisting of the table element and a collection of table rows nested in the table element

```
table cells
 table cells
```

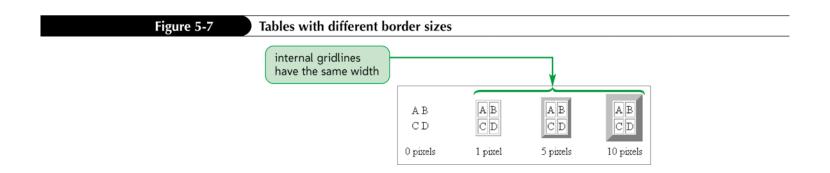
- Table headings, the cells that identify the contents of a row or column, are marked using a th element
- Data cells are marked with the td element and are used for any content that is not considered a heading





 To add a border to a Web table using HTML, use the border attribute

...
where value is the size of the border in pixels



Spanning Rows and Columns

- A spanning cell is a single cell that occupies more than one row or one column in the table
- To create a table cell that spans several columns, add the attribute

```
colspan="columns"
```

to the cell, where columns is the number of columns covered by the cell

 To create a table cell that spans several rows, add the attribute

```
rowspan="rows"
```

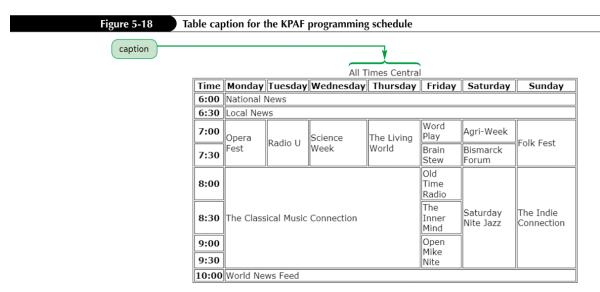
to the cell, where rows is the number of rows covered by the cell

Creating a Table Caption

 To create a table caption, add the caption element directly below the opening tag with the syntax

<caption>content</caption>

where content is the content of the table caption



Marking Row Groups

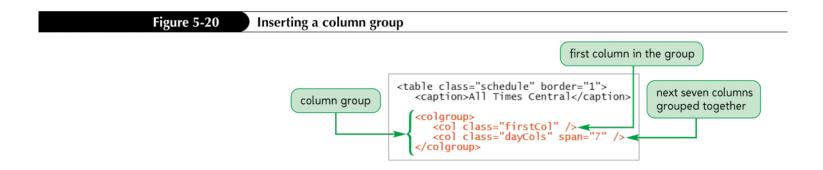
- You can divide a table's rows into row groups, in which each group element contains different types of content and can be formatted differently
- A table can have multiple table body row groups

```
<thead>
    table rows
</thead>
<tfoot>
    table rows
</tfoot>

    table rows
```

Marking Column Groups

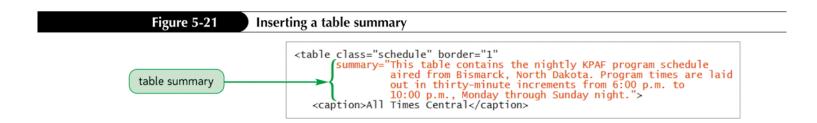
 Once the table columns have been determined by the browser, you can reference them through the use of column groups



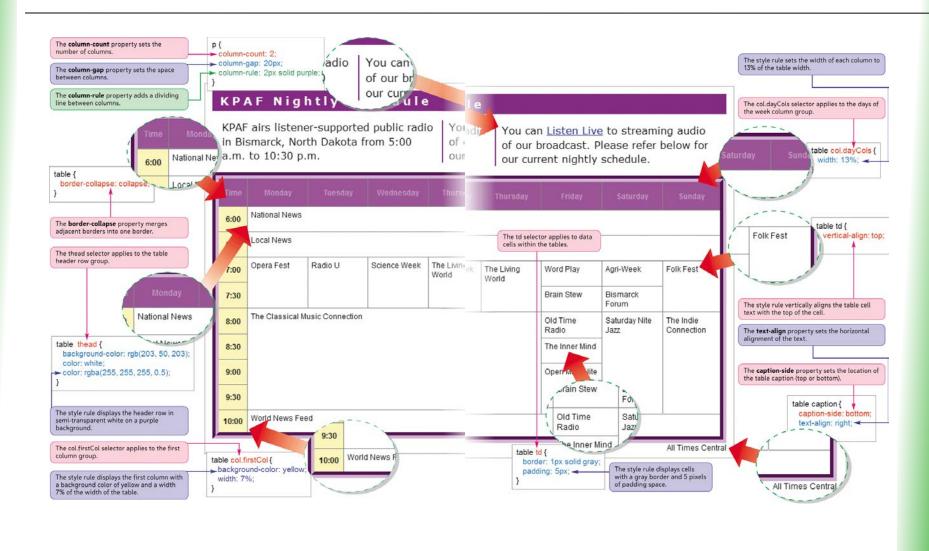
Adding a Table Summary

 The summary attribute allows you to include a more detailed description about the table

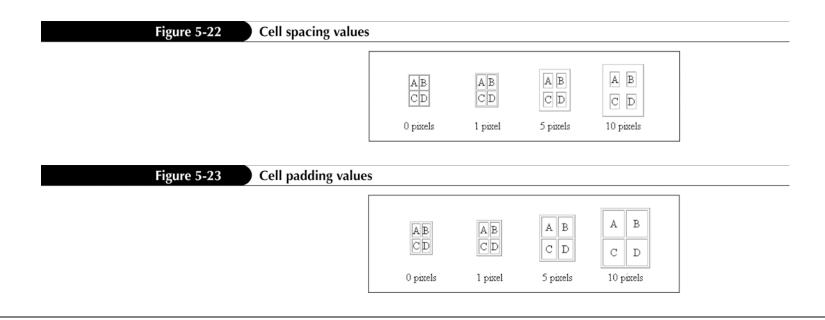
```
...
```



Web Table Styles



- The amount of space between table cells is known as the cell spacing
- The cell padding is the space between the cell contents and the cell border



 To define the space between table cells, add the cellspacing attribute

```
 ...
```

to the table element, where value is the space between table cells in pixels

 To define the padding within table cells, add the cellpadding attribute

```
 ...
```

to the table element, where value is the size of the padding space in pixels

 To set the width of the table to a specific value, add the width attribute

```
 ...
```

- Many browsers also support the height attribute
 ...
- You can use HTML to set the row heights by applying the height attribute

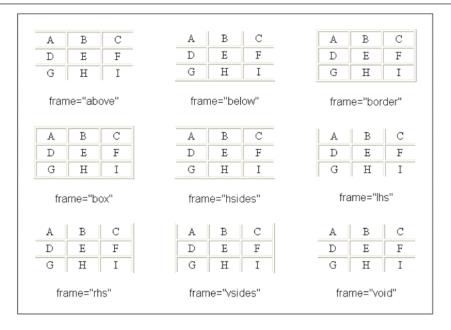
```
 ...
```

 A table frame specifies which sides of the table (or which sides of the table cells) will have borders

```
 ...
```

Figure 5-26

Values of the frame attribute

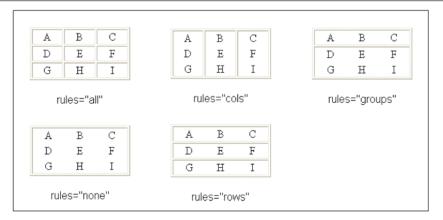


 A table rule specifies how the internal gridlines are drawn within the table

```
 ...
```

Figure 5-27

Values of the rules attribute



- By default, browsers horizontally center the contents of table header cells and left-align the contents of table data cells
 - -To control the horizontal alignment align="position"
 - To control the vertical alignment valign="position"

- Starting with CSS2, Cascading Style Sheets included support for Web tables
- You can apply one set of borders to the Web table itself and another set of borders to the individual cells within the table

 To define the border model used by the table, apply the table style

```
border-collapse: type
```

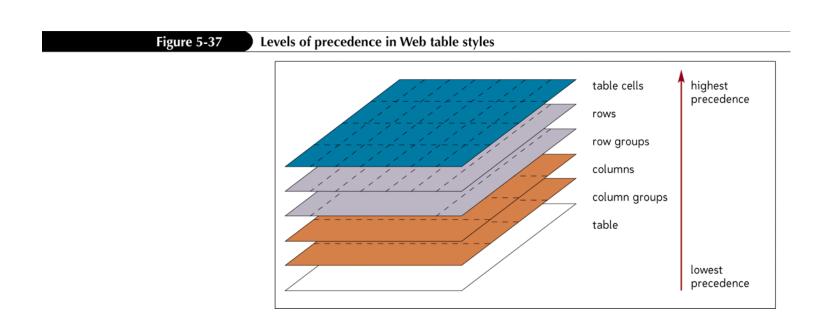
where type is separate (the default) to keep all borders around cells and the table itself apart, or collapse to merge all adjacent borders

 To set the space between separated borders, apply the table style

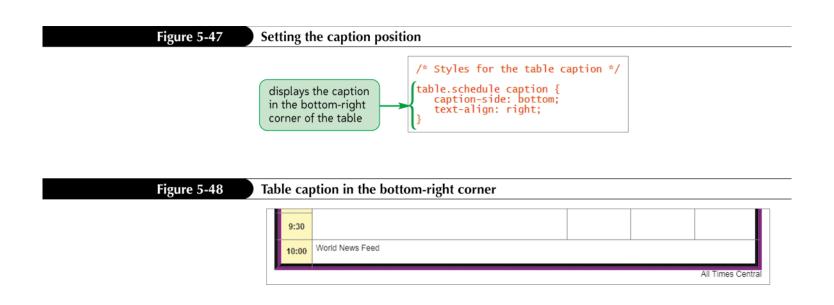
```
border-spacing: value
```

where value is the space between the borders in any of the CSS units of measure

 The most general styles are those applied to the entire table



 To position a table caption, apply the style caption-side: position
 where position is top or bottom



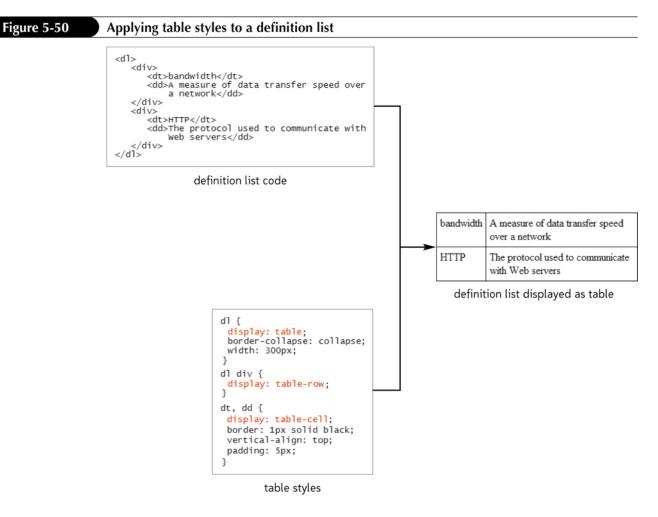
Applying Table Styles to Other Page Elements

Figure 5-49

Table display styles

Equivalent HTML Element
table (treated as a block-level element)
table (treated as an inline element)
tr
tbody
thead
tfoot
col
colgroup
td or th
caption

Applying Table Styles to Other Page Elements



Designing Columnar Layouts with CSS3

 To specify the number of columns in the layout, use column-count: number;

where number is the number of columns in the layout.

To specify the width of the columns, use

```
column-width: width;
```

where width is the width of the columns expressed in one of the CSS units of measure or as a percentage of the width of the element

To set the size of the gap between columns, use

```
column-gap: width;
```

where width is the width of the gap.

Designing Columnar Layouts with CSS3

To add a border between the columns, use

```
column-rule: border;
```

where border is the format of the border.

 To specify the width and number of columns in a single style property, use

```
columns: width count;
```

where width is the width of each column and *count* is the total number of columns in the layout.

 For specific browsers, add the -moz- vendor prefix for Firefox and the -webkit- prefix for Safari and Chrome to these style properties.

Designing Columnar Layoutswith CSS3

Figure 5-51 Applying a two-column style /* Two column layout for the introductory paragraph */ section#main p { -moz-column-count: 2; creates a two-column layout -webkit-column-count: 2; column-count: 2; sets the gap between the -moz-column-gap: 20px; columns to 20 pixels -webkit-column-gap: 20px; column-gap: 20px; -moz-column-rule: 2px solid rgb(153, 0, 153); -webkit-column-rule: 2px solid rgb(153, 0, 153); column-rule: 2px solid rgb(153, 0, 153); adds a 2-pixel solid purple border between the columns

Designing Columnar Layouts with CSS3

