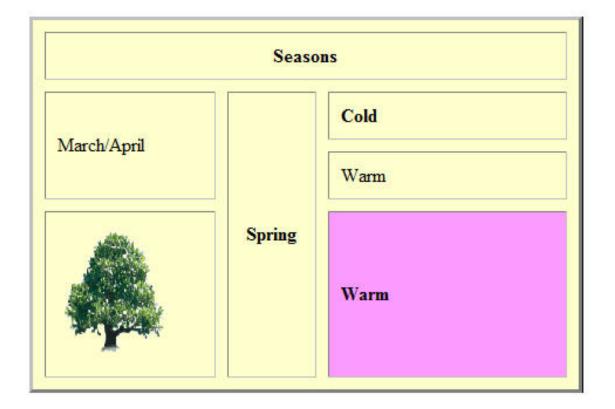
TUTORIAL 06 "Working with Tables"

"HTML TABLES"

• HTML tables



- The **HTML tables** allow web developers to arrange data like text, images, links, etc. into **rows** and **columns of cells**.
- The HTML tables are created using the
 table> tag in which
 the
 table> tag is used to create table rows
 and tag is used to create data cells.

```
<body>
                   Tables code (example)
Code
  Program Name
 B990
  Mobile Applications Development
 Code
                         Program Name
  B949
                 B990 Mobile Applications Development
  Web Development
 B949 Web Development
</body>
```

Tables are used on websites for two major purposes:

The obvious purpose of arranging/ displaying information in a table

Id 🗆	Name	Email	Investments
261	Alfred Alan	aalan@gmail.com	Stocks
227	Alison Smart	asmart@biztalk.com	Residential Property
246	Ally Emery	allye@easymail.com	Stocks
212	Andrew Phips	andyp@mycorp.com	Stocks
218	Andy Mitchel	andym@hotmail.com	Stocks
221	Ann Melan	ann melan@iinet.com	Residential Property
243	Ben Bessel	benb@hotmail.com	Stocks
202	2	7	2000

The less obvious - but more widely used - purpose of creating a page layout with the use of hidden tables, where data is

displayed on the web page in columns.

√ _{K1} percentage	80%	95%	100%~
APD90min (ms)	139.9	134.7	133.1
APD90max (ms)	312.9	285.5	269.1
WLmin (mm)	35.9	30.1	28.2
(VLmex (mm)	312.4	281.7	274.2

Let's take a look at the

Tutorial 6: Dakota Listener Radio TABLE

Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun				
6:00 PM	National New	ational News									
6:30 PM	World News	Vorld News									
7:00 PM	Opera Fest	Radio U	Science Week	The Living World	Word Play	Agri-Week	Folk Fest				
7:30 PM			Week		Brain Stew	Bismarck Forum					
8:00 PM	The Classica	l Music Conn	ection	Old Time Radio	Saturday Nite Jazz	The Indie Connection					
8:30 PM					The Inner Mind						
9:00 PM					Open Mike Nite						
9:30 PM					11/100						
	World News Feed										

The purpose: To arrange / display information in a table

Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun				
6:00 PM	National New	National News									
6:30 PM	World News	Vorld News									
7:00 PM	Opera Fest	pera Fest Radio U Science The Livin				Agri-Week	Folk Fest				
7:30 PM			Week		Brain Stew	Bismarck Forum					
8:00 PM	The Classical	Music Conn	ection		Old Time Radio		The Indie Connection				
8:30 PM					The Inner Mind						
9:00 PM					Open Mike Nite						
9:30 PM											
10:00 PM	World News F	eed									
DLR ends its broadcast day at 10:30 p.m.											

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Introduction to HTML TABLES

1. **Tables** are defined with the tag.

2. ROWS:

To add rows to your table use the and tags</ri>

row 1 row 2 row 3

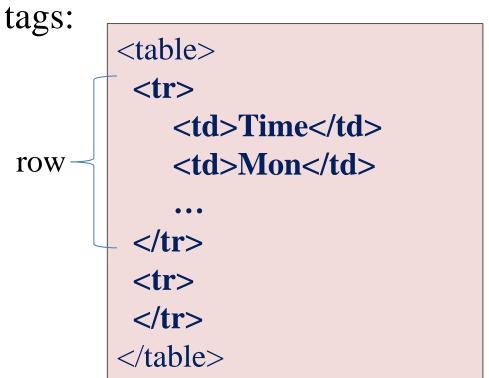


row 11

Introduction to HTML TABLES

3. COLUMNS:

You can divide rows into columns with and





How many **ROWS** and **COLUMNS** does this table contain?

Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun				
6:00 PM	National New	National News									
6:30 PM	World News	World News									
7:00 PM	Opera Fest	Radio U	io U Science Week	The Living World	Word Play	Agri-Week	Folk Fest				
7:30 PM			Week	World	Brain Stew	Bismarck Forum					
8:00 PM	The Classica	l Music Conn	ection	Old Time Radio	Saturday Nite Jazz	The Indie					
8:30 PM					The Inner Mind						
9:00 PM					Open Mike Nite						
9:30 PM											

Introduction to HTML TABLES

4. Table **<caption>**The **HTML Table Caption element** (**<caption>**)
specifies the caption (or title) of a table, and if used is always the first child of a .
Styling and physical position relative to the table may be changed using the
SS caption-size and text-align properties.



Example:

<caption>All Times Central</caption>

Introduction to HTML TABLES

5. **COLUMNS using :**

You can define a column using the and tags:

The **> element** defines a cell as **header** of a group of table cells.

```
Time
Time
Mon
Tue
Wed
Thu
Thu
Fri
Sat
Sun
```

Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun
C 00 011							

Introduction to HTML TABLES

6. **COLUMN** and **ROW span**:

```
colspan="" [Number of columns a cell should span]
rowspan="" [Number of rows a cell should span]
```

```
Example:
```

```
6:00 PMcolspan="7">National News
```

Time	Mon	Mon Tue Wed Thu Fri Sat Sun									
6:00 PM	National New	ational News									
6:30 PM	World News										

Introduction to HTML TABLES

6. **COLUMN** and **ROW span:**

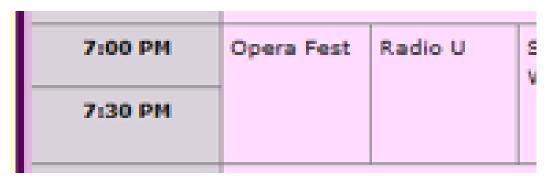
```
colspan="" [Number of columns a cell should span]
rowspan="" [Number of rows a cell should span]
```

```
7:00 PM

rowspan="2">Opera Fest

rowspan="2">Radio U

...
```



7. Table with (thead, tbody or tfoot) tags:

- **thead** is used to enclose a group of rows in a table as a header.
- **tfoot** is used to enclose a group of rows in a table as a footer, such as last row or two of a table. i.e. Summary information
- **tbody** is for main body of the table.

The {thead, tbody, tfoot} do not have any default rendering. Use CSS for styling.

When using thead or tfoot, you can use th or td.

Introduction to HTML TABLES

7. Table with (thead, tbody or tfoot) tags:

Example:

```
14
<thead>
      2
North
      South
      <tfoot>
</thead>
      North wins!
12
      8
      </tfoot>
```

North	South
12	8
14	2
North	wins!

Introduction to HTML TABLES

```
8. The <colgroup> element
                  defines a group of columns
<colgroup>
                  within a table.
<col span="4"
 style="background-color:#FFF9C4;">
<col style="background-color:yellow;">
</colgroup>
             <thead>
              Club
               Milan
  W
               6
  D
               2
  L
               0
  PTS
               20
 </thead>...
```

```
Club W D L PTS
Milan 6 2 0 20
```

TUTORIAL 06 "Dakota Listener Radio"

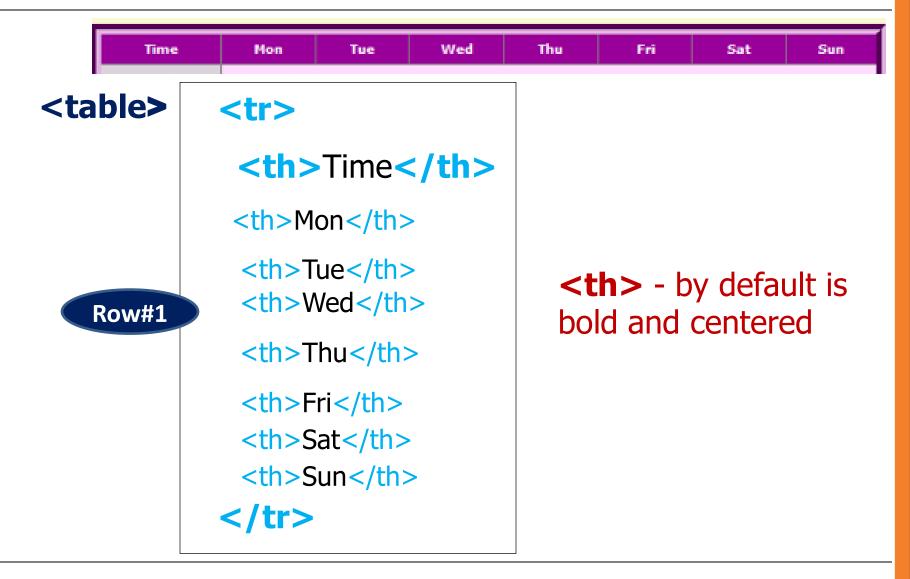
"dlr_evenings.html"

Introduction to HTML TABLES

TABLE 11 ROWS 8 COLUMNS

Row#1	Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun		
Row#2	6:00 PM	National New	National News							
Row#3	6:30 PM	World News								
Row#4	7:00 PM	Opera Fest	Radio U	Science Week	Word Play	Agri-Week	Folk Fest			
Row#5	7:30 PM					Brain Stew	Bismarck Forum			
Row#6	8:00 PM	The Classica	l Music Conne	ection		Old Time Radio	Saturday Nite Jazz	The Indie Connection		
Row#7	8:30 PM					The Inner Mind				
Row#8	9:00 PM					Open Mike Nite				
Row#9	9:30 PM									
Row#10	10:00 PM	World News Feed								
Row 11	DLR ends its bro	adcast day at	10:30 p.m.							
							All	Times Centra		

Introduction to HTML TABLES



6:00 PM

National News

Row#2

```
6:00 PMNational News
```

"One cell that spans 7 columns"

Introduction to HTML TABLES

Row#1

Row#2

Row#3

Time	Mon	Mon Tue Wed Thu Fri Sat Sun									
6:00 PM	National News	lational News									
6:30 PM	World News										

```
6:30 PMWorld News
```

All eight (8) columns defined!

"One cell that spans 7 columns"

Introduction to HTML TABLES

Row#4 Row#5

7:00	Opera Fest	Radio U	Science Week	The Living World	Word Play	Agri-Week	Folk Fest
7:30					Brain Stew	Bismarck Forum	

```
7:00 PM
              Row#4
Opera Fest
Radio U
Science Week
The Living World
Word Play
Agri-Week
Folk Fest
```

Introduction to HTML TABLES

Rows #4 & 5

Row#4 Row#5

7:00	Opera Fest	Radio U	Science Week	The Living World	Word Play	Agri-Week	Folk Fest
7:30					Brain Stew	Bismarck Forum	

```
7:00 PMrowspan="2">Opera Festrowspan="2">Radio Urowspan="2">ScienceWeekWeektd rowspan="2">The LivingWorldWorldWord PlayAgri-Weekrowspan="2">Folk Fest
```

```
7:30Brain StewBismarck Forum
```

Introduction to HTML TABLES

Row#6	8:00	The Classical Music Connection	Old Time Radio	Saturday Nite Jazz	The Indie Connection
Row#7	8:30		The Inner Mind		
Row#8	9:00		Open Mike Nite		
Row#9	9:30				

```
8:00rowspan="4" colspan="4">The Class...ctd rowspan="4">The Class...Old Time Radioctd rowspan="4">Saturday Nite Jazzrowspan="4">The Indie Connection
```

Introduction to HTML TABLES

Row#6	8:00	The Classical Music Connection	Old Time Radio	Saturday Nite	The Indie
Row#7	8:30		The Inner Mind	Jazz	Connection
Row#8	9:00		Open Mike Nite		
Row#9	9:30				

8:30The InnerMind

Introduction to HTML TABLES

Row#6	8:00	The Classical Music Connection	Old Time Radio	Saturday Nite Jazz	The Indie Connection
Row#7	8:30		The Inner Mind		
Row#8	9:00		Open Mike Nite		
Row#9	9:30				

```
    >9:00
    >9:00
    >0pen Mike Nite
    Row#9
        9:30
        >9:30
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        >9:30
```

Introduction to HTML TABLES



Introduction to HTML TABLES

TABLE 11 ROWS 8 COLUMNS

Row#1	Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun			
Row#2	6:00 PM	National New	National News								
Row#3	6:30 PM	World News									
Row#4	7:00 PM	Opera Fest	Radio U	Science Week	Word Play	Agri-Week	Folk Fest				
Row#5	7:30 PM				Brain Stew	Bismarck Forum					
Row#6	8:00 PM	The Classica	l Music Conne	ection	Old Time Radio	,	The Indie Connection				
Row#7	8:30 PM					The Inner Mind					
Row#8	9:00 PM					Open Mike Nite					
Row#9	9:30 PM										
Row#10	10:00 PM	World News Feed									
Row 11	DLR ends its bro	DLR ends its broadcast day at 10:30 p.m.									
							Al	Times Centra			

Table code and styling

<caption>All Times Central</caption>

. . .

```
DLR ends its broadcast day at 10:30 p.m.
                                                                All Times Central
                                      /* Table Caption Styles */
                                      table.schedule caption {
                                        caption-side: bottom;
                                        text-align: right;
```

background: rgb(218, 210, 218);
width: 16%; }
col.dayCols {
background: rgb(255, 220, 255);
width: 12%; }

Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun		
6:00 PM	National New	National News							
6:30 PM	World News	World News							
7:00 PM	Opera Fest	Radio U	Science	The Living	Word Play	Agri-Week	Folk Fest		

```
<thead>
Time
Mon
Tue
Wed
Thu
Fri
Sat
Sun
</thead>
```

```
table.schedule thead {
  background: rgb(153, 0, 153);
   color: white;
table.schedule tfoot {
  background: black;
   color: white;
table.schedule thead tr {
   height: 30px;
table.schedule tbody tr {
   height: 40px;
```

Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun		
6:00 PM	National News	National News							
6:30 PM	World News	World News							
DLR ends its broadcast day at 10:30 p.m.									

7:00 PM	Opera Fest	Radio U	Science Week	The Living World	We
7:30 PM					Bri
8:00 PM	The Classica	Music Conne	ection		Oli Ra
8:30 PM					Th Mir
9:00 PM					Op
9:30 PM					

```
/* Table Cell Styles */
Itable.schedule th, table.schedule td {
   border: 1px solid gray;
   padding: 5px;
   vertical-align: top;
}
```

"Working with Tables"





- A table is defined using the element and contains a number of table cells (, for "table data") which are organized into table rows (
 to table is defined using the element
- Table cells which act as column headers or row headers should use the <<th><<th><<th><<th><<th><</th>
 (table header) element



 Table cells can be merged using the colspan and rowspan attributes.

```
    6:30 PM
    > (th>6:30 PM
    > (th>6:30 PM
    > (td>6:30 PM
    > (td) PM
    >
```



- Tables can be broken into sections using the following elements:
- <thead> Table header is used to identify one or more rows of a table that contain column labels rather than table data.
- **-** Table body The element must be a direct descendant of a element and is used to identify elements that comprise the body of the table. The element should always come after a <thead> element and may come before or after a <tfoot> element.
- **<tfoot> -** Table footer. In HTML5, <tfoot> can be placed either before or after and elements, but must appear after any <caption>, <colgroup>, and <thead> elements.



 A caption can be added to a table using the <aption> element.

A <caption> must appear in an HTML document as the first descendant of a parent , but it may be positioned visually at the bottom of the table with CSS.



You can use <col> and <colgroup>
 to define table columns for styling.



You should not layout your web content using 'table-based layout'.

Use CSS for this task.

• Tables should be used whenever you need to present information in a tabular format.