

Column 1	Column 2	Column 3	Column 4
Data	Data	Data	Data
Data	Data	Data	Data
Data	Data	Data	Data
Data	Data	Data	Data



HTML Tables

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- ◆ **HTML Tables**
 - ◆ **Simple Tables**
 - ◆ **Complete HTML 5 Tables**
 - ◆ **Data cells and Header cells**
- ◆ **Nested Tables**
- ◆ **Complex tables**
 - ◆ **Cells Width**
 - ◆ **Cell Spacing and Padding**
 - ◆ **Column and Row Span**



HTML Tables

Notepad

```
<html>
<head>
<title>How To Create HTML Tables</title>
</head>
<body>
<table border=1 cellspacing=0 cellpadding=0>
<tr>
<td width=110 valign=top>
<br><upper left corner>
<td>
<td width=110 valign=top>
<br><upper right corner>
</td>
</tr>
<tr>
<td width=110 valign=top>
<br><left center cell>
<td width=110 valign=top>
<br><right center cell>
</td>
</tr>
<tr>
<td width=110 valign=top>
<br><lower left corner>
<td>
<td width=110 valign=top>
<br><lower right corner>
</td>
</tr>
</table>
</body>
</html>
```

US time	European date (D/M/Y) & time	Y-M-D date & time	Dollar	Chinese money	IP addresses	Names	Numbers
29/10/1965	83-03-24	YMB 4	98.176.35.80	26.32 E +03			
Fri Mar 22 21:48:49 UTC+0200 1957		1967-08-22 06:07:16 PM	YMB -81.38	162.117.253.34	dyse chidi		
Fri, 14 Feb 2002 04:24:20 UTC	06/07/99 06:46:01 AM	81-02-04 09:09:54 AM	YMB -108.83	122.205.50.6	bochai dychai	-191.45E-05	
Monday, May 30, 1994 4:47:31 PM	06/09/05 05:11:16 AM		YMB 33.16		dydy balie	-131.20E+01	
09/28/2000	24/11/1957		\$-38.77	YMB 112.42	15.192.151.209		
		97-08-13 00:01:33 AM	\$14.5	YMB -1.75	99.93.147.150	dychai tonchai	-187.28E-05
Mon, 29 Oct 1979 00:44:03 UTC		87-10-16	\$14.66	YMB 61.14		chite malie	- 125.19 E -03
Sat, 9 Jan 1982 05:45:06 UTC	04/06/68	74-10-20	\$20.47		121.169.225.22	dyma bama	138.11E+02
04/05/75		2000-03-20	\$68.84	YMB 88.19	239.133.227.68	made liete	195.44 E +03
Monday, July 15, 2002 1:05:02 AM	01/02/1961 09:40:16 AM		\$97.9	YMB 44.28	223.66.228.116	mava sete	-107
this is footer	row	number	ONE!	adsf	adsf	adsf	adsf

Title	Title	Title	Title	Title	Title
Data	Data	Data	Data	Data	Data
Data	Data	Data	Data	Data	Data
Data	Data	Data	Data	Data	Data
Data	Data	Data	Data	Data	Data
Data	Data	Data	Data	Data	Data

- ◆ **Tables represent tabular data**
 - ◆ **A table consists of one or several rows**
 - ◆ **Each row has one or more columns**
- ◆ **Tables comprised of several core tags:**
 - <table></table>: begin / end the table**
 - <tr></tr>: create a table row**
 - <td></td>: create tabular data (cell)**
- ◆ **Tables should not be used for layout. Use CSS floats and positioning styles instead**

Simple HTML Tables – Example

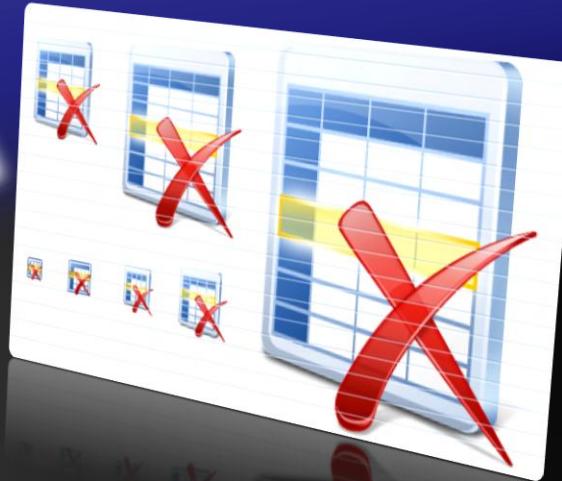
```
<table cellspacing="0" cellpadding="5">
  <tr>
    <td></td>
    <td><a href="lecture1.ppt">Lecture 1</a></td>
  </tr>
  <tr>
    <td></td>
    <td><a href="lecture2.ppt">Lecture 2</a></td>
  </tr>
  <tr>
    <td></td>
    <td><a href="lecture2-demos.zip">
      Lecture 2 - Demos</a></td>
  </tr>
</table>
```

Simple HTML Tables

Live Demo



Important Birthdays		
Name	Age	Date of Birthday
Emily	8 years	3 September
Jack	12 years	28 April



First Name	Last Name	Date of Birth	Account Balance	Gender
A	B	20-Feb-1962	12,345.67	<input checked="" type="checkbox"/>
C	D	6-Jan-1987	23,456.779	<input checked="" type="checkbox"/>
E	F	31-Aug-1989	34,567.891	<input type="checkbox"/>
G	H	16-Jan-1945	-456.7	<input type="checkbox"/>
I	J	2-Aug-1907	567	<input type="checkbox"/>

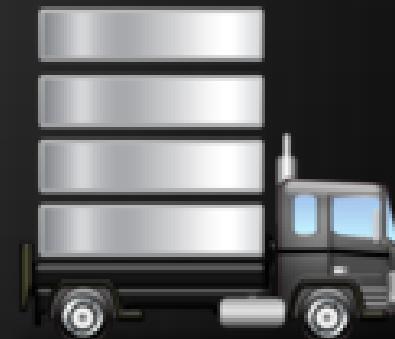
Data Cells and Header Cells

- ◆ Two kinds of cells in HTML 5 tables
 - ◆ Data cells – containing the table data
 - ◆ Header cells – used for the column names or some more important cells
- ◆ Why two kinds of cells?
 - ◆ Used to semantically separate the cells

```
<tr>
    <th>Full name</th> <th> Mark </th>
</tr>
<tr>
    <td>Doncho Minkov</td> <td>Very good 5</td>
</tr>
<tr>
    <td>Georgi Georgiev</td> <td>Exellent 6</td>
</tr>
```

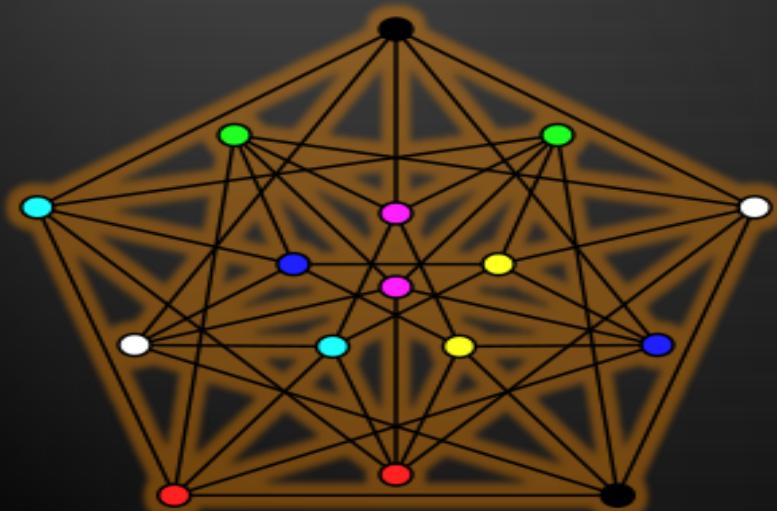
Data and Header Cells

Live Demo



Complete HTML 5 Tables

With Header, Footer
and Body



Complete HTML Tables

- ◆ Table rows split into three semantic sections: header, body and footer
 - <thead> denotes table header and contains <th> elements, instead of <td> elements
 - <tbody> denotes collection of table rows that contain the very data
 - <tfoot> denotes table footer but comes BEFORE the <tbody> tag
 - <colgroup> and <col> define columns (used to set column widths)

Complete HTML Table: Example

```
<table>
  <colgroup>
    <col style="width:100px" /><col />
  </colgroup>
  <thead>
    <tr><th>Column 1</th><th>Column 2</th></tr>
  </thead>
  <tfoot>
    <tr><td>Footer 1</td><td>Footer 2</td></tr>
  </tfoot>
  <tbody>
    <tr><td>Cell 1.1</td><td>Cell 1.2</td></tr>
    <tr><td>Cell 2.1</td><td>Cell 2.2</td></tr>
  </tbody>
</table>
```

columns

header

th

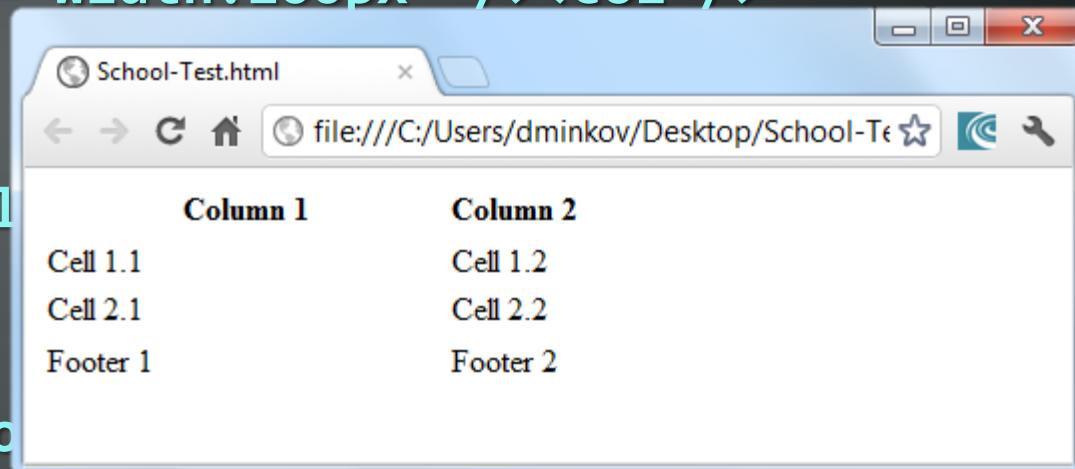
footer

Last comes the body (data)

Complete HTML Table: Example (2)

```
<table>
  <colgroup>
    <col style="width:200px" /><col />
  </colgroup>
  <thead>
    <tr><th>Col
  </thead>
  <tfoot>
    <tr><td>Footer 1
  </tfoot>
  <tbody>
    <tr><td>Cell 1.1
    <tr><td>Cell 2.1
    <tr><td>Footer 2
  </tbody>
</table>
```

table-full.html



Although the footer is before the data in the code, it is displayed last

Complete HTML 5 Tables

Live Demo

Nested Tables

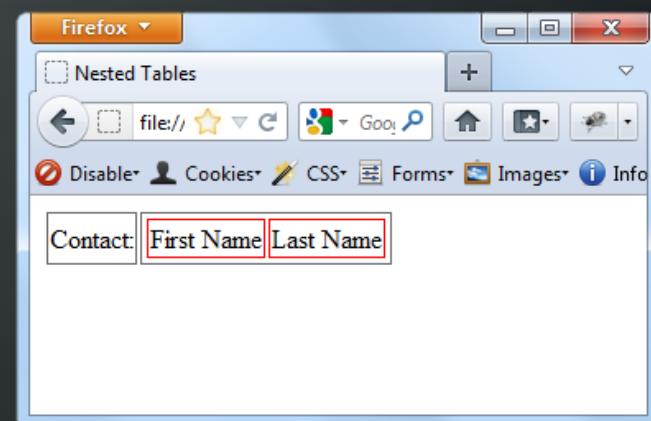
Tables in Tables in Tables in Tables in Tables...



- ◆ Table "cells" (`<td>`) can contain nested tables (tables within tables):

```
<table>
  <tr>
    <td>Contact:</td>
    <td>
      <table>
        <tr>
          <td>First Name</td>
          <td>Last Name</td>
        </tr>
      </table>
    </td>
  </tr>
</table>
```

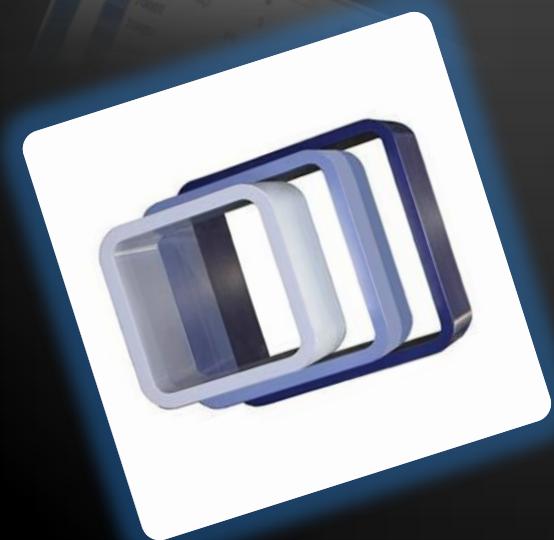
nested-tables.html



Order ID	Customer ID	Employee ID	Order Date	Ship Via	Freight
*			No date is 5...		4.45
	FRANS	6	Friday, May... 3		
*	Order ID	Product ID	Unit Price	Quantity	
10000				4	
10000	17		27	3	79.45
10001	MEREP	8	Monday, M... 3		
*	Order ID	Product ID	Unit Price	Quantity	
10001				30	
10001	40		9.8	40	
10001	59		385	8	
10001	64		23	15	
10002	FOLKO	3	Tuesday, M... 3		36.18
10003	SIMOB	8	Wednesday... 1		18.59
		11			

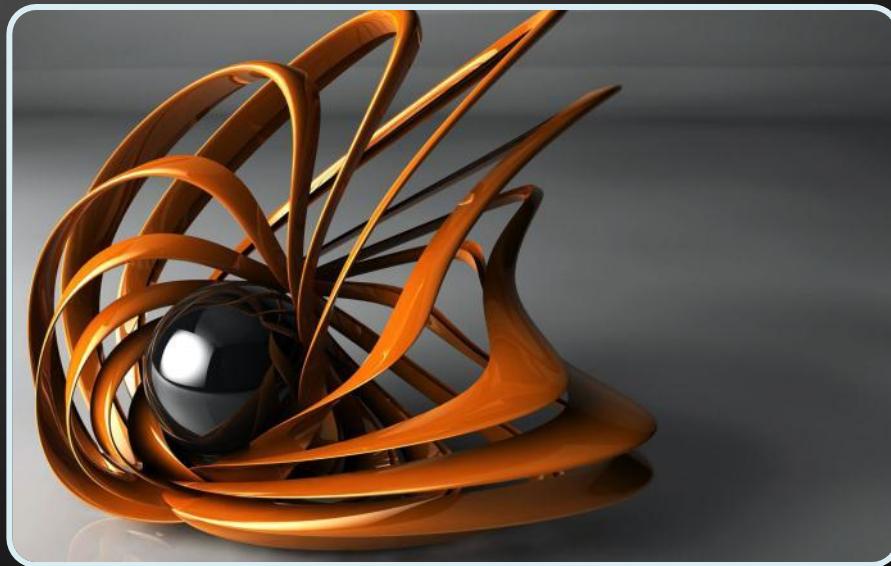
Nested Tables

Live Demo



Complex Tables

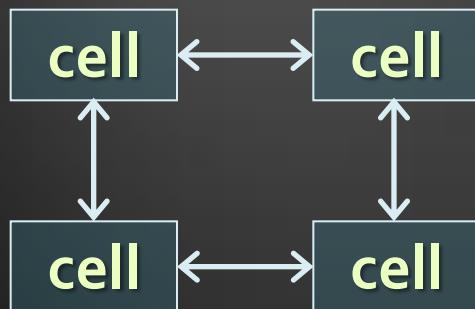
With Padding, Spacing and Stuff



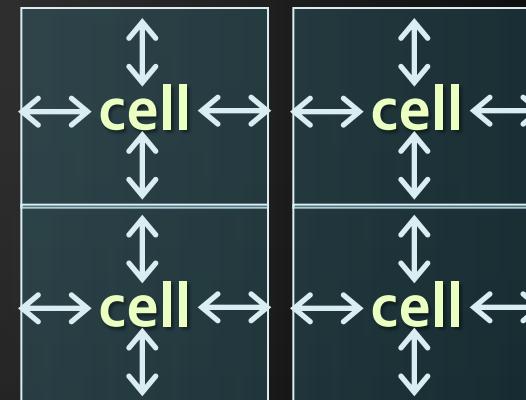
Cell Spacing and Padding

- ◆ Tables have two attributes related to space

- ◆ **cellspacing**



- ◆ **cellpadding**



- ◆ Defines the empty space between cells

- ◆ Defines the empty space around the cell content

Cell Spacing and Padding – Example

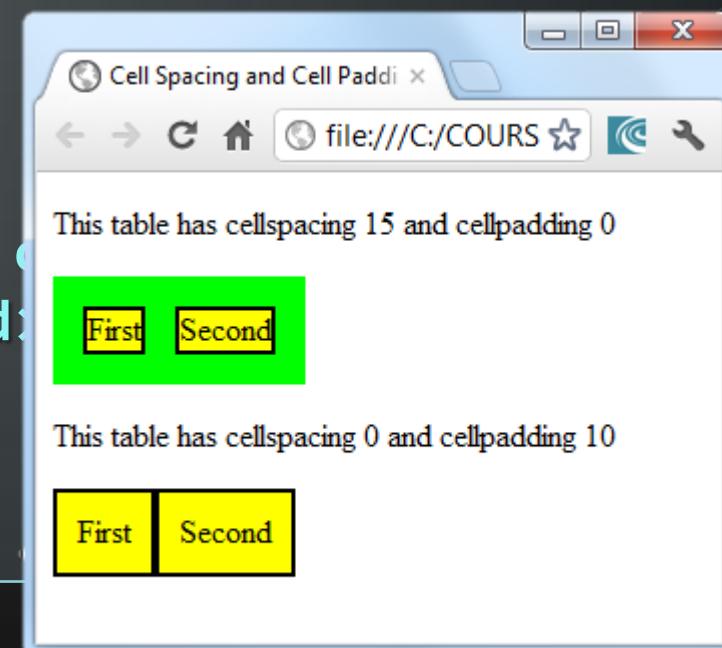
table-cells.html

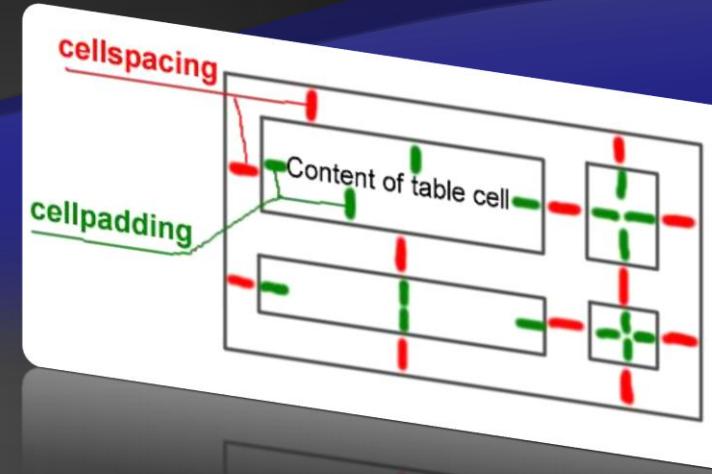
```
<html>
  <head><title>Table Cells</title></head>
  <body>
    <table cellspacing="15" cellpadding="0">
      <tr><td>First</td>
      <td>Second</td></tr>
    </table>
    <br/>
    <table cellspacing="0" cellpadding="10">
      <tr><td>First</td><td>Second</td></tr>
    </table>
  </body>
</html>
```

Cell Spacing and Padding – Example (2)

table-cells.html

```
<html>
  <head><title>Table Cells</title></head>
  <body>
    <table cellspacing="15" cellpadding="0">
      <tr><td>First</td>
      <td>Second</td></tr>
    </table>
    <br/>
    <table cellspacing="0" cellpadding="10">
      <tr><td>First</td><td>Second</td>
    </tr>
  </table>
</body>
</html>
```





Cell Spacing and Cell Padding

Live Demo

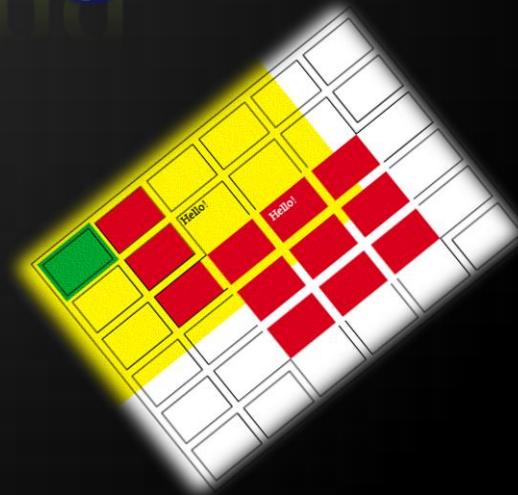
Address: C:\fyicenter\cellspacing.html

cellspacing="0"

Description	Qty	Price
Email Account	10	\$9.90
FYIcenter.com Ad	1	\$99.00
1-year Access	1	\$199.00

cellspacing="8"

Description	Qty	Price
Email Account	10	\$9.90
FYIcenter.com Ad	1	\$99.00
1-year Access	1	\$199.00





Row and Column Spans

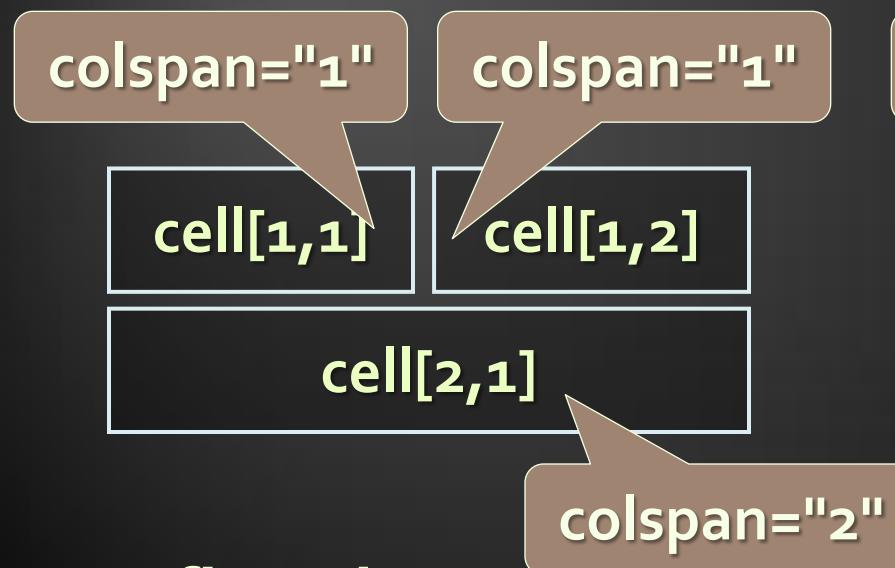
How to make a two-cells
column? Or row?



Column and Row Span

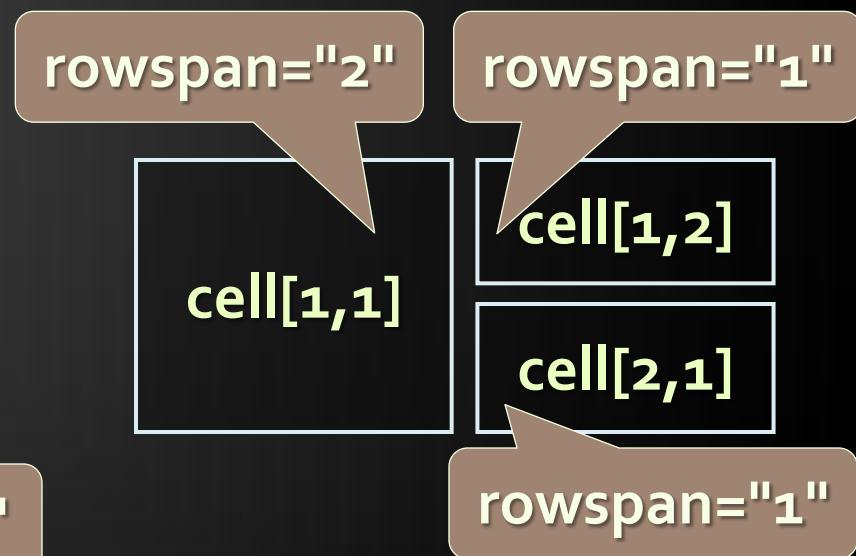
- ◆ Cells have two attributes related to merging

- ◆ **colspan**



- ◆ Defines how many columns the cell occupies

- ◆ **rowspan**



- ◆ Defines how many rows the cell occupies

table-colspan-rowspan.html

```
<table cellspacing="0">
  <tr class="1">
    <td>Cell[1,1]</td>
    <td colspan="2">Cell[2,1]</td>
  </tr>
  <tr class="2">
    <td>Cell[1,2]</td>
    <td rowspan="2">Cell[2,2]</td>
    <td>Cell[3,2]</td>
  </tr>
  <tr class="3">
    <td>Cell[1,3]</td>
    <td>Cell[2,3]</td>
  </tr>
</table>
```

Column and Row Span – Example (2)

table-colspan-rowspan.html

```
<table cellspacing="0">
  <tr class="1">
    <td>Cell[1,1]</td>
    <td colspan="2">Cell[2,1]</td>
  </tr>
  <tr class="2">
    <td>Cell[1,1]</td>
    <td rows="2">Cell[1,2]</td>
    <td>Cell[3,2]</td>
  <tr class="3">
    <td>Cell[1,2]</td>
    <td>Cell[2,2]</td>
    <td>Cell[2,3]</td>
  </tr>
</table>
```

Cell[1,1]	Cell[2,1]	
Cell[1,1]	Cell[1,2]	Cell[3,2]
Cell[1,2]		Cell[2,3]

Row and Column Spans

Live Demo

123			
1	2	3	+
4	5	6	-
7	8	9	*
0		.	/

HTML – Tables and Forms

Questions?

1. Create Web Pages like the following using tables:

Fresh Fruits

It has long been known that a diet that includes at least a few servings of fresh fruit every day will help keep you healthy, fit and trim.



Title goes here		A	B
	D	E	F
C	H	I	G
	K	L	M
N	O		J

2. Create a Web Page like the following using forms:

Member name : *req

Email : *req

School : *req

3. Create a Calculator-like table.

You should use a HTML 5 form for the Calculator

- Buttons for all the numbers and operators (+, -, etc.)
- Textbox for the result
- Do not make the same styles as the example.

123			
1	2	3	+
4	5	6	-
7	8	9	*
0	.		/