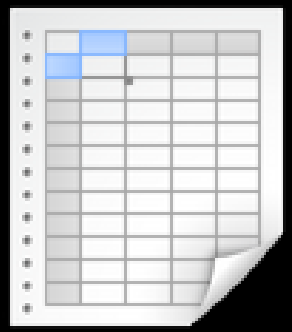
HTML Tables

Tables, Rows, Columns, Cells, Header, Footer, Colspan, Rowspan

Au Mau Duong
Technical Trainers



Value for "freelance" in row 1 has changed from "true" to "false"

NAME	FIRSTNAME	AGE	HEIGHT	CONTINENT	COUNTRY	EMAIL	FREELANCE
Rogers	Denise	59	1.63 m	America		rogers.d@gmail.com	☐
Shannon	Rana	24	1.56 m	Europe		rana.shannon@hotmail.com	☐
Duke	Patience	33	1.84 m	Europe		patience.duke@gmail.com	☐
Morin	Wanthus	46	1.77 m	Africa		morin.x@yahoo.com	☐
Santa-Maria	Martin	37	1.80 m	America		martin.sm@gmail.com	☐
Benton	Jasmine	61	1.71 m	America		jasmine.benton@yahoo.com	☐
Dujardin	Antoine	21	1.73 m	Europe		felix.compton@yahoo.fr	☑
Deumerci	Amédé	37	1.81 m	Africa		deumerci@gmail.com	☑
Conway	Coby	47	1.96 m	Africa		coby@conwayinc.com	☑
Belletoise	André	31	1.84 m	Europe		belletoise@kiloutou.be	☑

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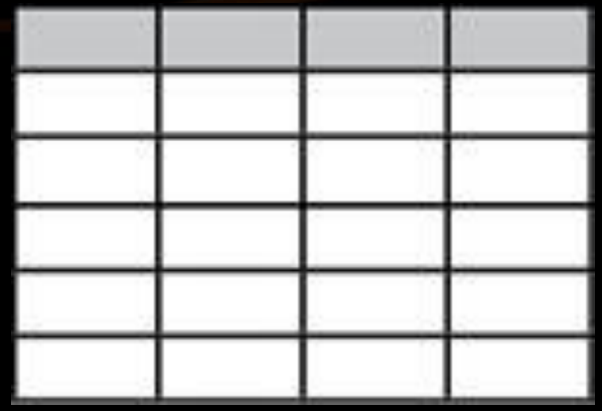
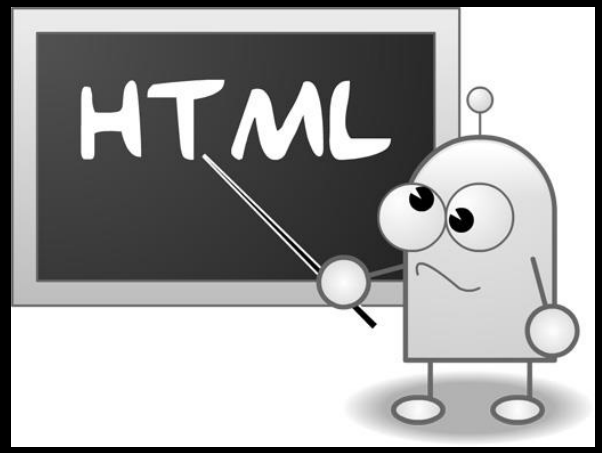
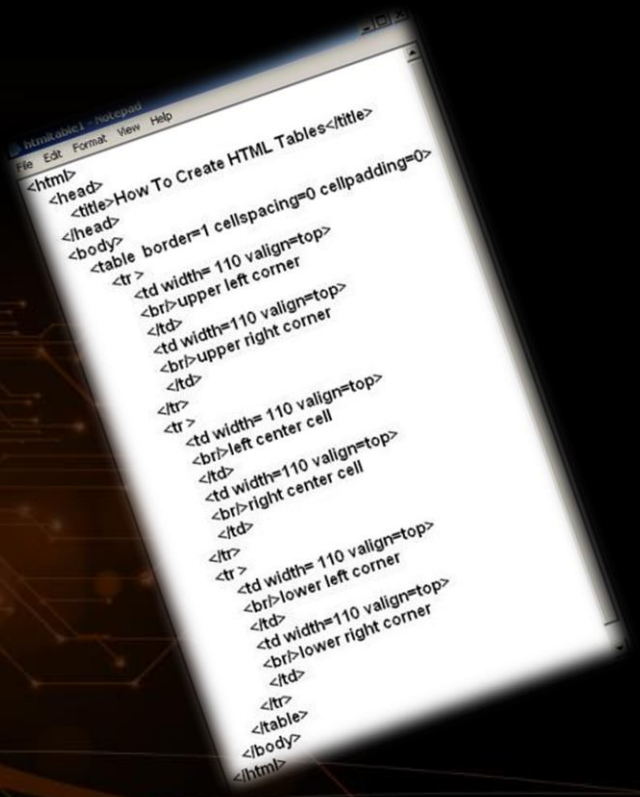




US time	European date (D/M/Y) & time	Y-M-D date & time	Dollar	Chinese money	IP addresses	Names	Numbers
	29/10/1965	83-03-24		YMB 4	98.176.35.80		26.32 E +03
Fri Mar 22 21:48:49 UTC+0200 1957		1967-08-22 06:07:16 PM		YMB -81.38	162.117.253.34	dyse chidi	
Thu, 14 Feb 2002 04:24:20 UTC	06/07/99 06:46:01 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



HTML Tables

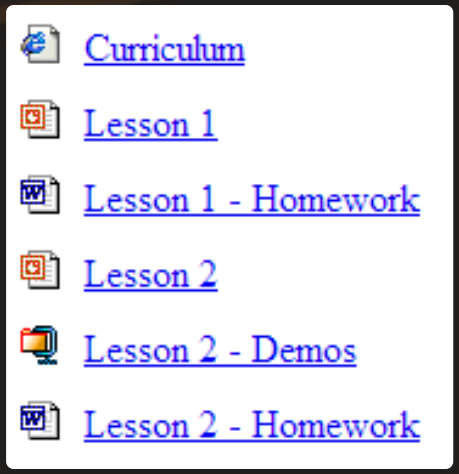
Title	Title	Title	Title	Title	Title
Data	Data	Data	Data	Data	Data
Data	Data	Data	Data	Data	Data
Data	Data	Data	Data	Data	Data
Data	Data	Data	Data	Data	Data
Data	Data	Data	Data	Data	Data

HTML Tables

- 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 (1)

```
<table cellspacing="0" cellpadding="5">
  <tr>
    <td><img src="ppt.gif"></td>
    <td><a href="lesson1.ppt">Lesson 1</a></td>
  </tr>
  <tr>
    <td><img src="ppt.gif"></td>
    <td><a href="lesson2.ppt">Lesson 2</a></td>
  </tr>
  <tr>
    <td><img src="zip.gif"></td>
    <td><a href="lesson2-demos.zip">Lesson 2 - Demos</a></td>
  </tr>
</table>
```



Data Cells and Header Cells

- Two kinds of cells in HTML tables
  - Data cells
    - Hold the table data – **<td>**
  - Header cells
    - Hold the column names – **<th>**
- Semantically separate data and headers

Id	Name	Email	Investments
231	Albert Master	albert.master@gmail.com	Bonds
210	Alfred Alan	aalan@gmail.com	Stocks
256	Alison Smart	asmart@biztalk.com	Residential Property
211	Ally Emery	allye@easymail.com	Stocks
248	Andrew Phips	andyp@mycorp.com	Stocks
234	Andy Mitchel	andym@hotmail.com	Stocks
226	Angus Robins	arobins@robins.com	Bonds
241	Ann Melan	ann_melan@iinet.com	Residential Property
225	Ben Bessel	benb@hotmail.com	Stocks
235	Bensen Romanolf	benr@albert.net	Bonds

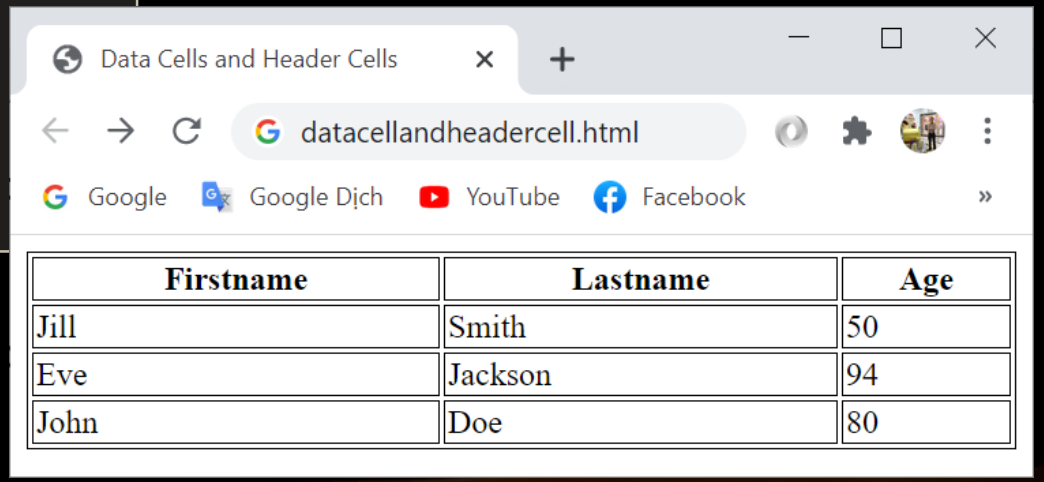
```
<tr> <th>Full Name</th> <th>Grade</th> </tr>
<tr> <td>Mariela Anderson</td> <td>Very Good (5)</td> </tr>
<tr> <td>Georgi Georgiev</td> <td>Exellent (6)</td> </tr>
```

Data Cells and Header Cells – Example

```
<table
style="width:100%">
  <tr>
    <th>Firstname</th>
    <th>Lastname</th>
    <th>Age</th>
  </tr>
  <tr>
    <td>Jill</td>
    <td>Smith</td>
    <td>50</td>
  </tr>
```

```
<tr>
    <td>Eve</td>
    <td>Jackson</td>
    <td>94</td>
  </tr>
  <tr>
    <td>John</td>
    <td>Doe</td>
    <td>80</td>
  </tr>
</table>
```

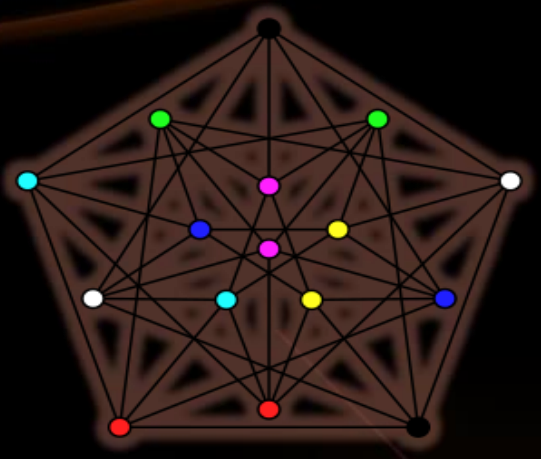
```
<style>
table, th, td {
  border: 1px solid
black; }
</style>
```



Firstname	Lastname	Age
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

Complete HTML Tables

With Header, Footer and Body



Column 1	Column 2
Cell 1.1	Cell 1.2
Cell 2.1	Cell 2.2
Cell 3.1	Cell 3.2
Footer 1	Footer 2

Complete HTML Tables

- Table rows split into several semantic sections:
  - `<thead>` denotes the table header
    - Contains `<th>` elements, instead of `<td>` cells
  - `<tbody>` denotes collection of table rows holding table data
  - `<tfoot>` denotes table footer
    - It may comes before the `<tbody>` elements, but is displayed last
  - `<colgroup>` and `<col>` define columns
    - Used to assign column widths

Complete HTML Table: Example (1)

```
<table>
    <colgroup>
      <col style="width:200px" /><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>
```

column width definitions

table header

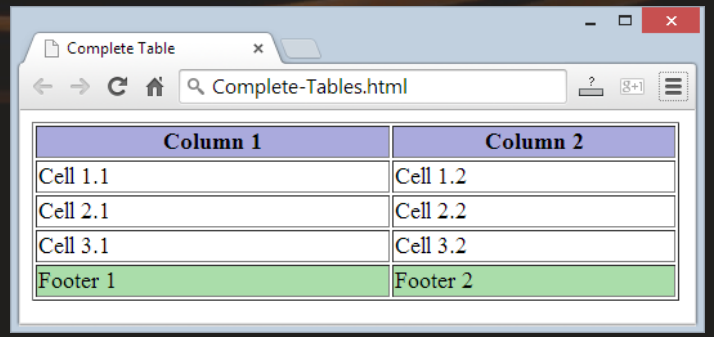
<th> → header column

footer

Last comes the body (data)

Complete HTML Table: Example (2)

```
<table>
    <colgroup>
      <col style="width:200px" /><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>
```



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

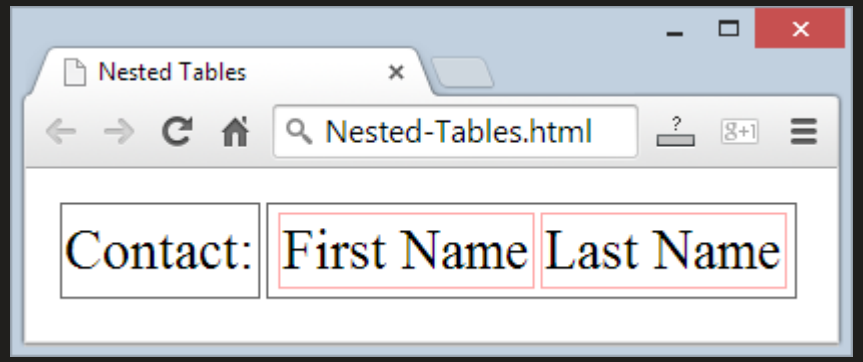
Nested Tables

Tables in Tables in Tables in Tables…

Nested Tables

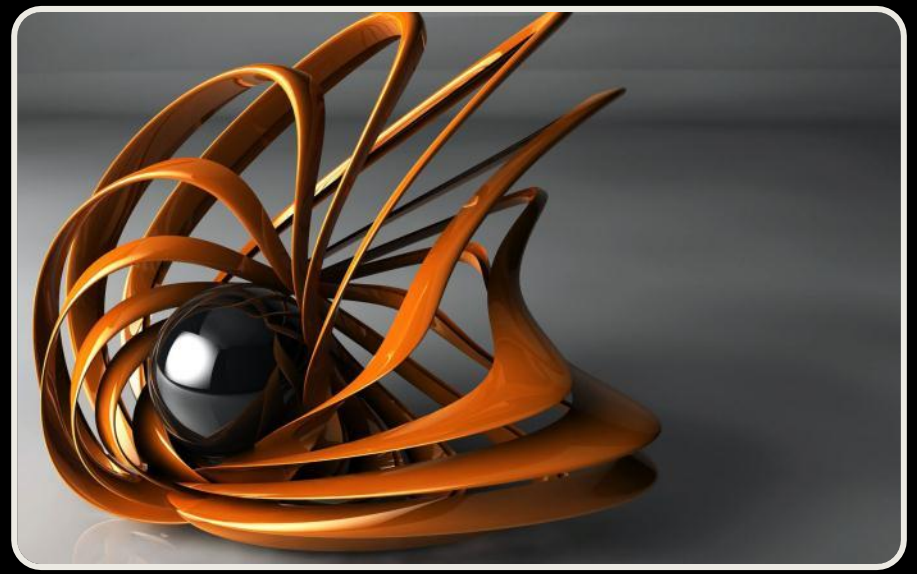
- Table "cells" (**<td>**) can contain nested tables (tables within tables):

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



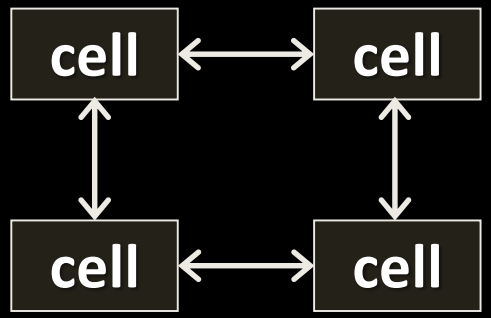
Complex Tables

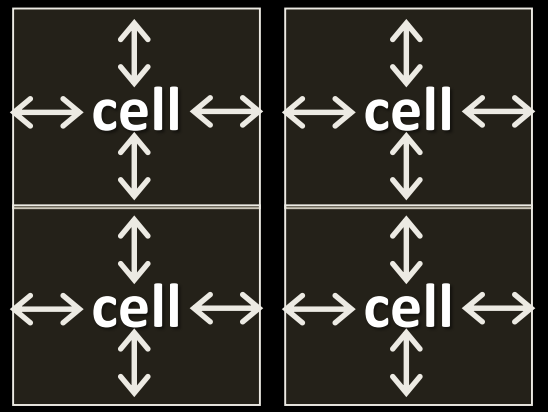
With Padding, Spacing, Etc.



Cell Spacing and Padding

- Tables have two attributes related to space
  - `cellspacing`
  - `cellpadding`

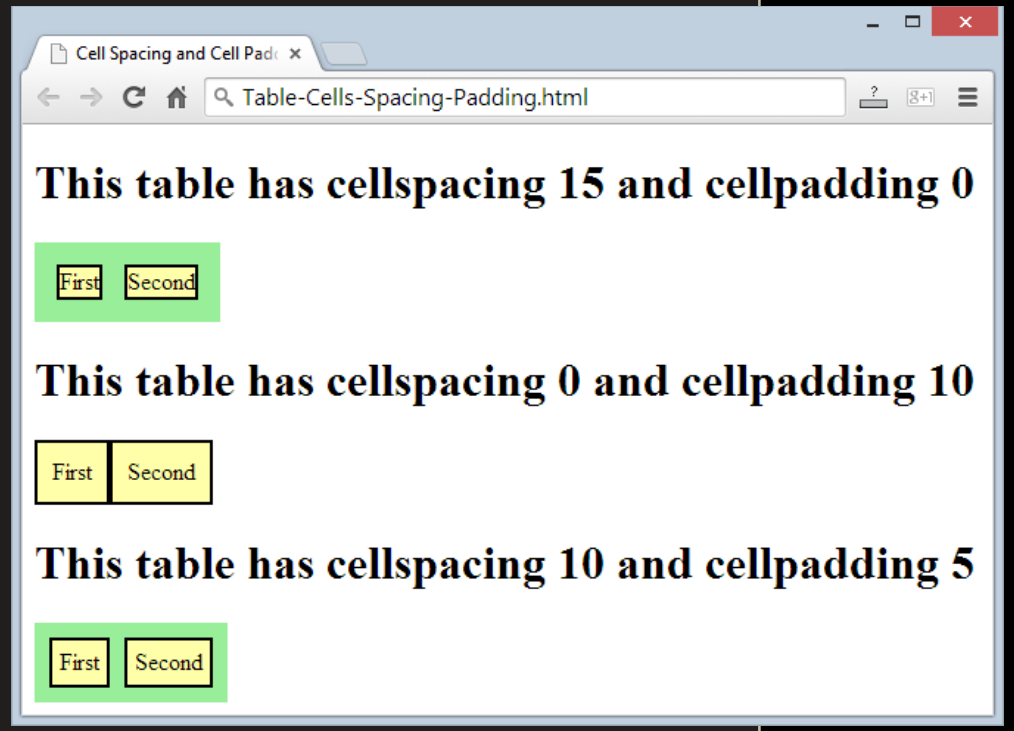




  - Defines the empty space between cells
  - Defines the empty space around the cell content

Cell Spacing and Padding – Example

```
<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>
    <table cellspacing="10" cellpadding="5">
      <tr><td>First</td><td>Second</td></tr>
    </table>
  </body>
</html>
```



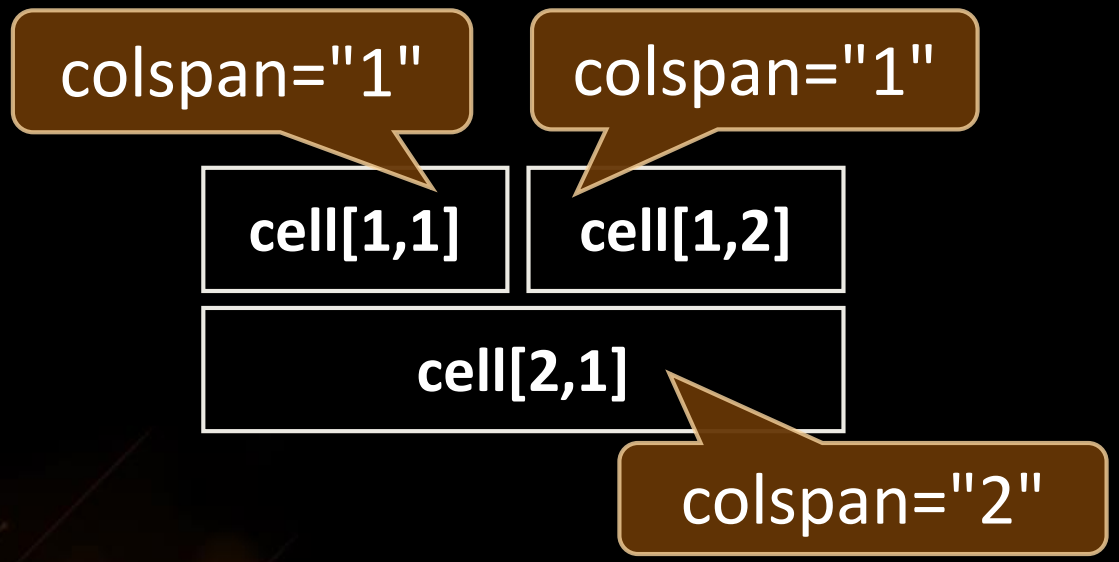
Row and Column Spans

How to Make a Two-Cells Column or Row?

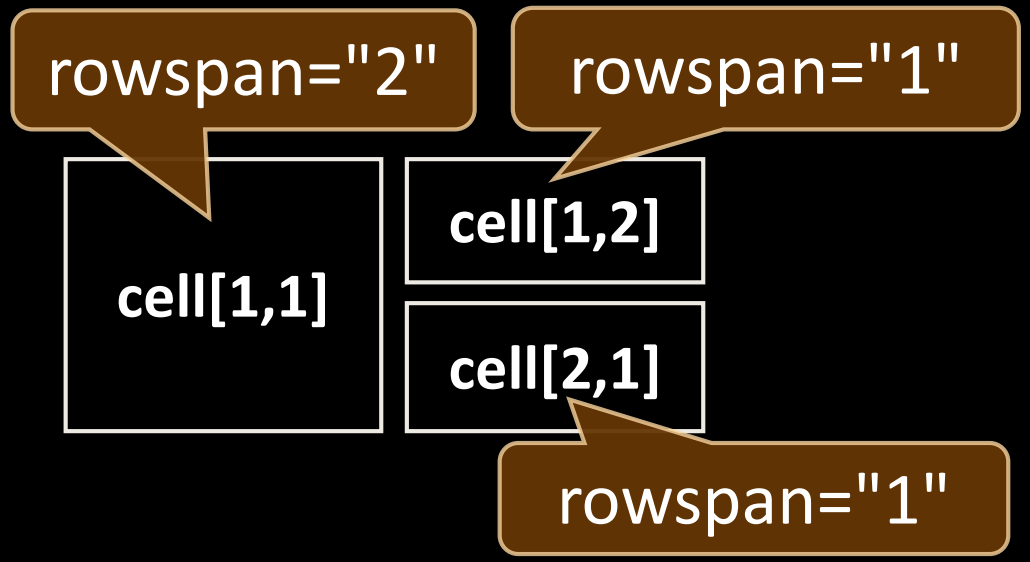
Cell[1,1]	Cell[2,1]	
Cell[1,2]	Cell[2,2]	Cell[3,2]
Cell[1,3]		Cell[2,3]

Column and Row Span

- Cells have two attributes related to merging
  - `colspan`



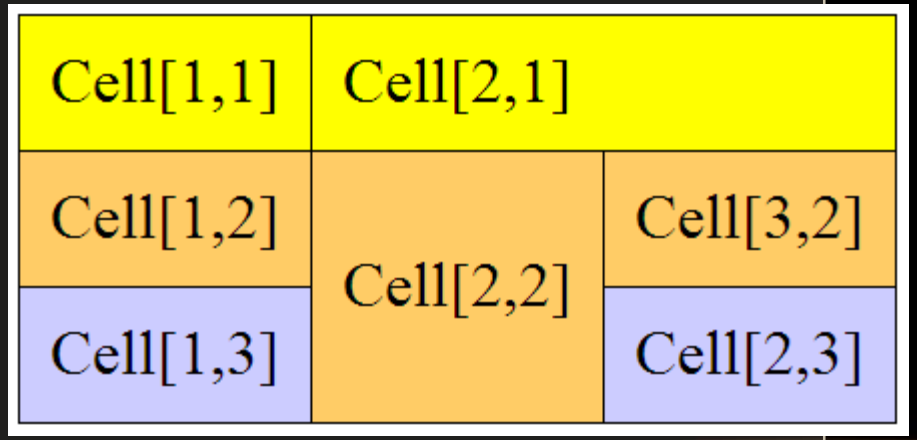
    - Defines how many columns the cell occupies
  - `rowspan`



    - Defines how many rows the cell occupies

Column and Row Span – Example

```
<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>
```



Summary

- HTML tables
  - Defined by **<table>**, **<tr>**, **<td>** tags
  - Semantic tags: **<thead>**, **<tbody>**, **<tfoot>**
  - Columns: **<colgroup>**, **<col>**, **<th>**
  - Column / row span: **colspan**, **rowspan**
- Styling tables:
  - Prefer CSS
  - Old tags: **cellspacing**, **cellpadding**, **border**

HTML Tables

Questions?