



Web Programming

Lecturer: Ung Văn Giàu
Email: giau.ung@eiu.edu.vn

HTML Table

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

Contents

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Complex Table



```
<body>
  <div id="searchOutput">Middle</div>
  <table>
    <tbody>
      <tr>
        <td>First</td>
      </tr>
      <tr>
        <td>Last</td>
      </tr>
    </tbody>
  </table>
  <script>...</script>
</body>
```

First Name	Last Name	Job Title	Twitter
James	Matman	Chief Sandwich Eater	@james
Andor	Nagy	Designer	@andornagy
Tamas	Biro	Game Tester	@tamas
Zoli	Mastah	Developer	@zoli
Szabi	Nagy	Chief Sandwich Eater	@szabi

1. HTML Table

HTML Table

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

Simple HTML Table

Example

```
<table cellpadding="5" cellspacing="0">
  <tr>
    <td></td>
    <td><a href="lecture1.pptx">Lecture 1</a></td>
  </tr>
  <tr>
    <td></td>
    <td><a href="lecture2.pptx">Lecture 2</a></td>
  </tr>
</table>
```

Data Cell and Header Cell

- Two kinds of cells in HTML table
 - **Data** cell – `<td></td>` – containing the table data
 - **Header** cell – `<th></th>` – used for the column names or some more important cells
- Why two kinds of cells?

Used to **semantically** separate the cells

```
<table cellpadding="5" cellspacing="0">
  <tr>
    <th>Full Name</th>
    <th>Mark</th>
  </tr>
  <tr>
    <td>Doncho Minkov</td>
    <td>Very good (5)</td>
  </tr>
</table>
```



Complete HTML Table

Tags, Attributes and Elements

Complete HTML Table

Table rows split into 3 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

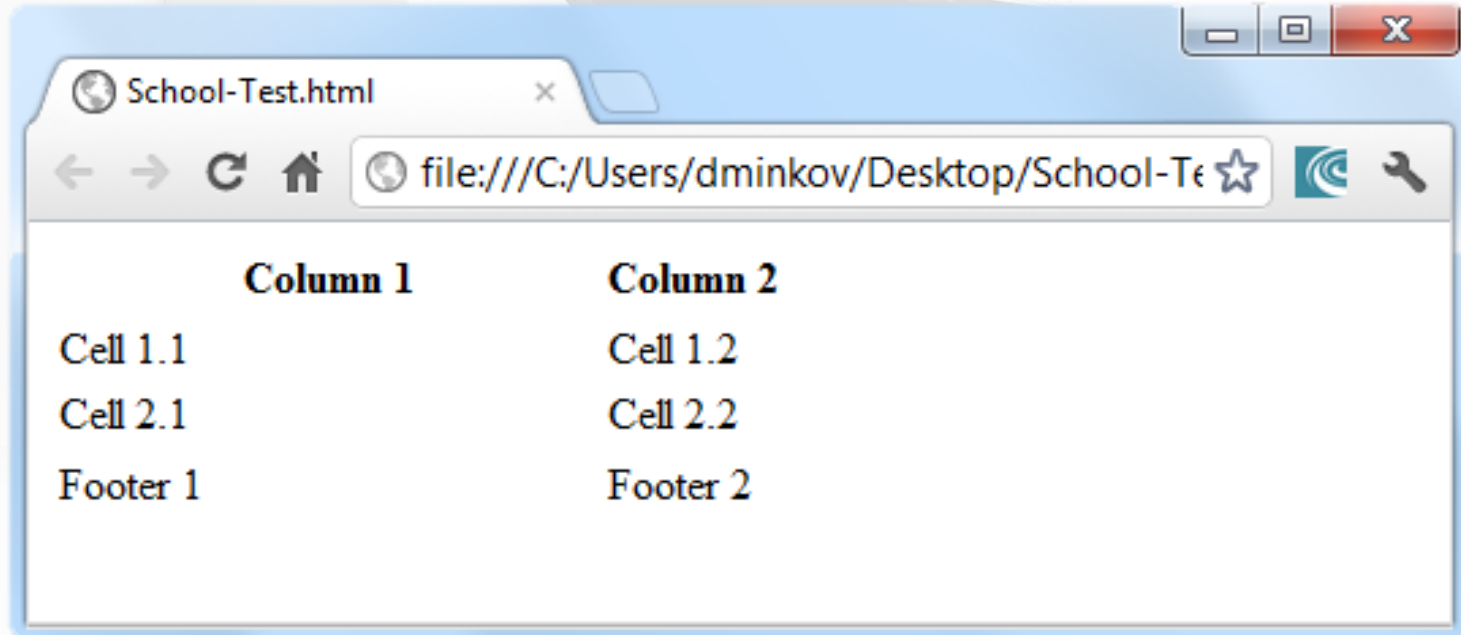
Example

```
<table cellspacing="0" cellpadding="5">
  <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>
  </tbody>
</table>
```

Complete HTML Table

Example

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




Complete HTML Table

- The **<caption>** tag defines a table caption and must be **inserted immediately after the <table>** tag.
- By default, a table caption will be **center-aligned above a table**.
However, the CSS properties **text-align** and **caption-side** can be used to align and place the caption.

Complete HTML Table

Example

```
<table border="1">
  <caption><b>My savings</b></caption>
  <colgroup>
    <col style="width: 100px;">
    <col style="width: 100px;">
  </colgroup>
  <tr>
    <th>Month</th>
    <th>Savings</th>
  </tr>
  <tr>
    <td>January</td>
    <td>$100</td>
  </tr>
</table>
```



Month	Savings
January	\$100



https://www.website.com

[pager stuff]

<input type="checkbox"/>	Name	Logo	Yearly Income	Ow
<input type="checkbox"/>	McDonalds	2 golden arches	\$\$\$\$\$	
<input type="checkbox"/>	Taco Bell	A bell	\$\$\$\$\$	
<input type="checkbox"/>	Subway	The name	\$\$\$\$\$	

Address	City	State	Zip	Phone
1 Main St.	Seattle	WA	12345	(999)1.
42 Hitchhiker's Way	Atlanta	GA	67890	(207)9.

<input type="checkbox"/>	Arbys	No clue	\$\$	
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[pager stuff]

2. Nested Table

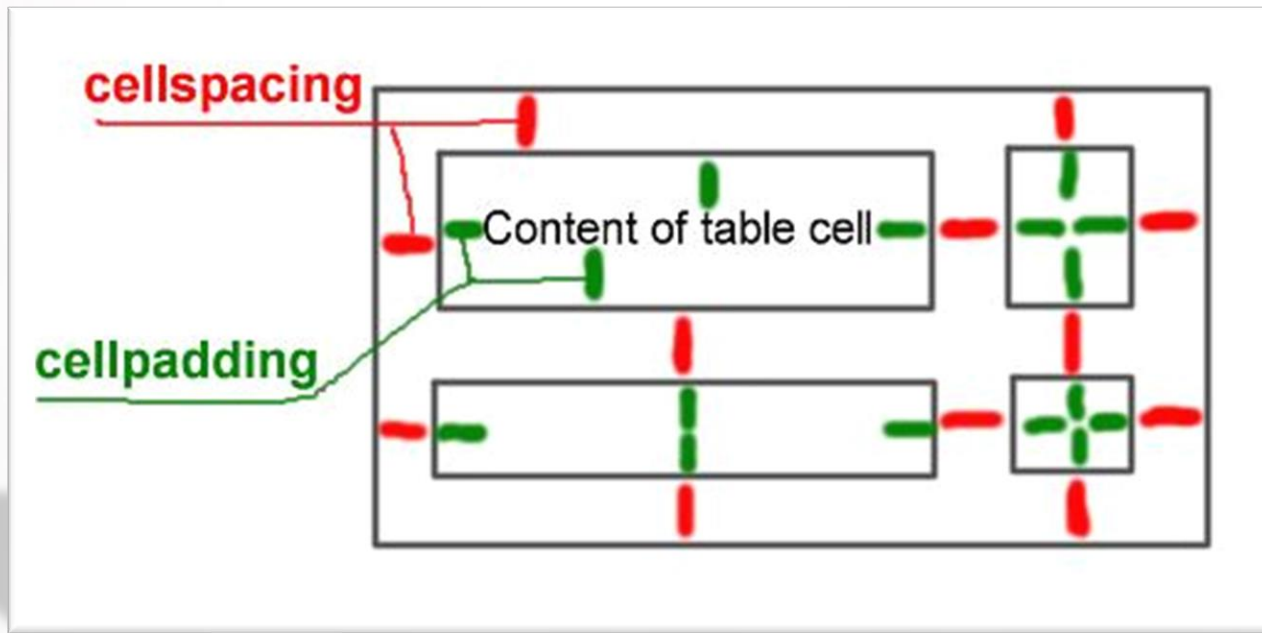
Tables in Tables in Tables in Tables...

Nested Table

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>
```

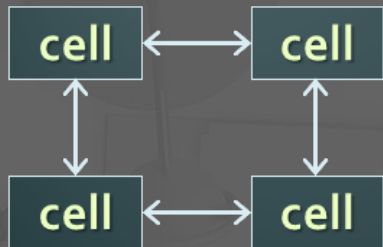



3. Complex Table

With Padding, Spacing and Stuff

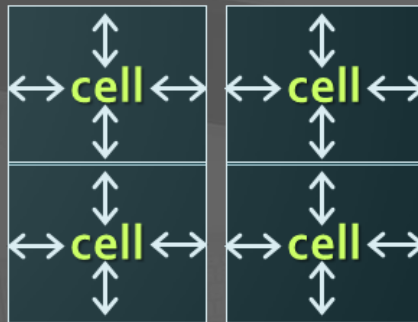
Cell Spacing and Padding

Cell spacing



Defines the
empty space
between cells

Cell padding



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>
  </body>
</html>
```

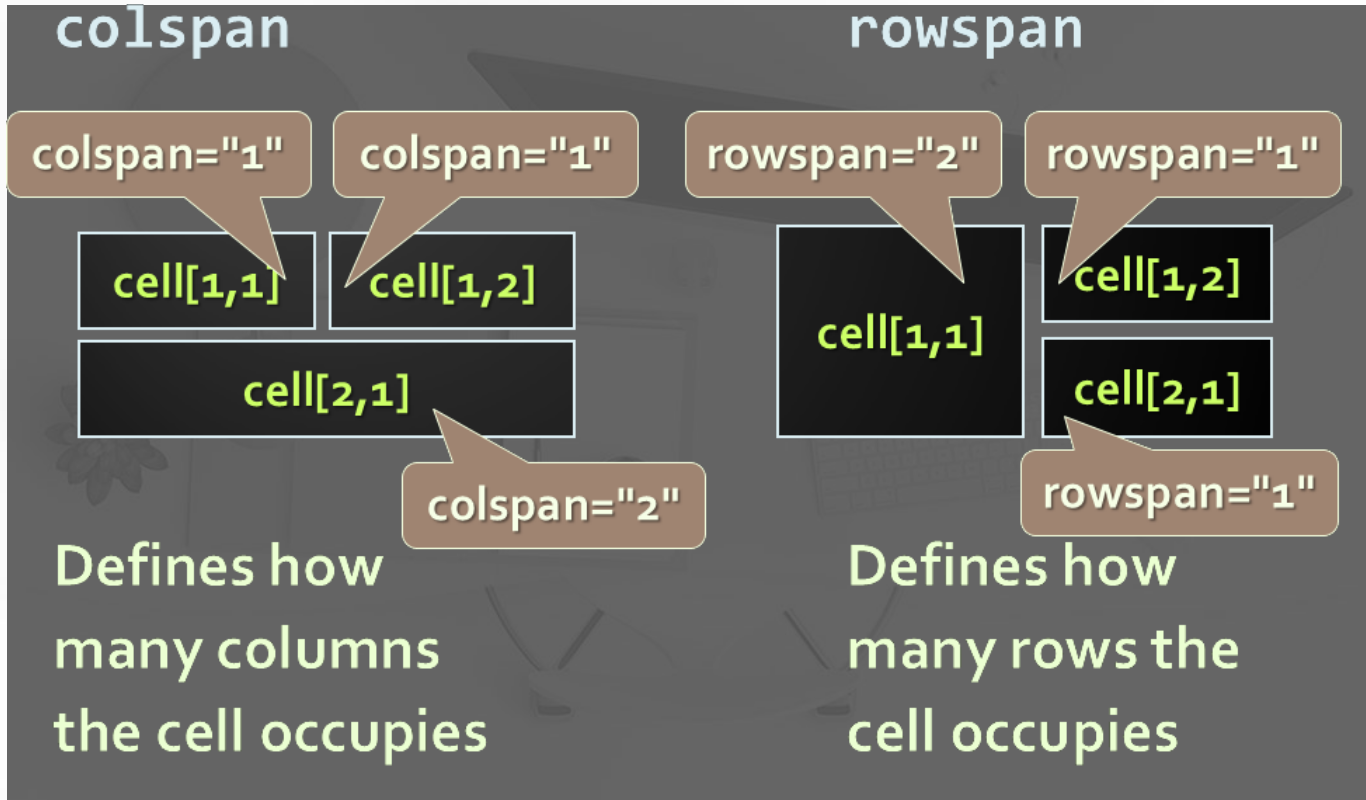


<i>Title</i>	<i>Title</i>	<i>Title</i>
<i>Data</i>		
	<i>Data</i>	

Row and Column Spans

How to Make a Two-Cells Column or Row?

Column and Row Span



Column and Row Span

Example

```
<table cellpadding="5">
  <tr class="Row1">
    <td>Cell [1, 1]</td>
    <td colspan="2">Cell [2, 1]</td>
  </tr>
  <tr class="Row2">
    <td>Cell [1, 2]</td>
    <td rowspan="2">Cell [2, 2]</td>
    <td>Cell [3, 2]</td>
  </tr>
  <tr class="Row3">
    <td>Cell [1, 2]</td>
    <td>Cell [2, 3]</td>
  </tr>
</table>
```

Column and Row Span

Example

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



Summary

Exercise

Write the HTML tags for the following table

STT	Ngày Đặt	Khách Hàng	Điện Thoại	Địa Chỉ	Ghi Chú	Tình Trạng
1	2022-03-05 12:44:52	kirito	0394826477	40HV,PC,TDM,BD	Ok	Đã xử lý


Mã đơn hàng: DCP-20220305124452

Hủy

Đã xử lý

Chờ kiểm tra kho

THÔNG TIN CHI TIẾT

STT	HÌNH	TÊN SP	LOẠI GIÁ	SỐ LƯỢNG	ĐƠN GIÁ	THÀNH TIỀN
1		XE Ô TÔ BEN ĐIỆN TRẺ EM NEL909		1	0 VNĐ	0 VNĐ
Tổng cộng						0 VNĐ

2	2021-12-10 16:24:15	Đ	0344	Xxz		Mới
3	2021-12-10 09:28:06	TRANMANHHOAI	0344238347	BINH DUONG		Đã hủy
4	2021-12-10 09:28:00	TRANMANHHOAI	0344238347	BINH DUONG		Đã xử lý
5	2021-12-10 09:18:16	TRANMANHHOAI	0344238347	BINH DUONG		Đã hủy



Q&A