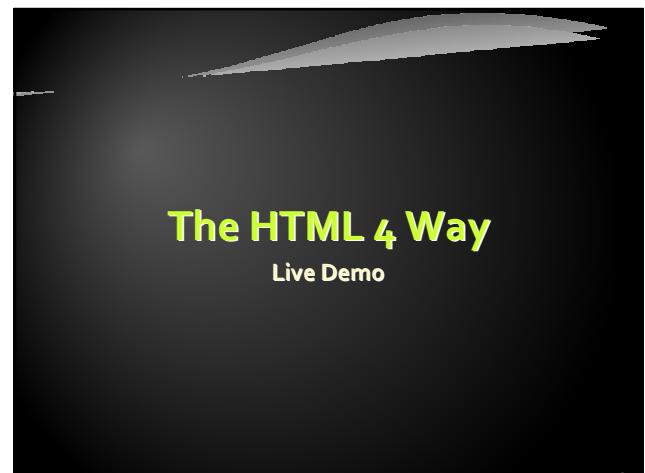


The title 'The "HTML 4 and Before" Way' is at the top. Below it is a section titled 'Using divs with IDs' with a bullet point: 'The IDs are needed for styling'. A code block shows an example of HTML using IDs for structural elements.

```
<html>
<head> ... </head>
<body>
  <div id="header"> ... </div>
  <div id="navigation"> ... </div>
  <div id="sidebar"> ... </div>
  <div id="content"> ... </div>
  <div id="footer"> ... </div>
</body>
</html>
```



The HTML 5 Way

→ In HTML 5 there are semantic tags for layout

- <nav>, <header>, <footer>, <section>

```
<html>
<head> ... </head>
<body>
  <header> ... </header>
  <nav> ... </nav>
  <aside> ... </aside>
  <section> ... </section>
  <footer> ... </footer>
</body>
</html>
```

- Work only on newer browsers

Semantic Structural Tags

[Live Demo](#)



Remember

→ It is important to have the correct vision and attitude towards HTML

- HTML is only about structure, not appearance
- Browsers tolerate invalid HTML code and parse errors – you should not
- Always think about semantics

Exercises

→ Write an HTML page like the following:

- * Use headings and divs

Hello, Stranger!

Welcome to Runners Home™

Runners Home™ is dedicated to providing you with:

- the most up-to-date information on running races
- the best resources for runners.

© 2007 Runners Home. All rights reserved.

Exercises (2)

2. Write an HTML page like the following:

```
Preceding Text
  1. List Item 1
    * Nested Item 1.1
    * Nested Item 1.2
  2. List Item 2
    1. Nested Item 2.1
    2. Nested Item 2.2
      * Nested Item 2.2.1
      * Nested Item 2.2.2
  3. Nested Item 3
    * Nested Item 3.1
    * Nested Item 3.2
    * Nested Item 3.3
```

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Exercises (3)

3. Create an user profile Web page Profile.html, friends page named Friends.html and info page named Info.html. Link them to one another using <a> tag

[Profile](#) [Friends](#) [Additional Information](#)

Additional Information about Doncho

*Student at Sofia University
Born in Burgas
Living In Sofia
Working at [telenik](#)*

[Profile](#) [Friends](#) [Additional Information](#)

Friends of Doncho

1. Petar Ivanov
Student

2. Vaniloto
Software developer

3. Daf Gasho
System admin

[Profile](#) [Friends](#) [Additional Information](#)

Profile of Doncho



Name : Doncho Minkov
Birthday : 22 June 1989
Occupation : Student
Area of occupation : IT

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HTML Tables

0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	0	1	0	1	0	1	0	1	0	1	0
1	0	1	0	1	0	1	0	1	0	1	0	1	0
1	0	1	0	1	0	1	0	1	0	1	0	1	0
1	0	1	0	1	0	1	0	1	0	1	0	1	0
0	1	0	1	0	1	0	1	0	1	0	1	0	1
0	1	0	1	0	1	0	1	0	1	0	1	0	1
0	1	0	1	0	1	0	1	0	1	0	1	0	1

HTML 5



Contents

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



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HTML Tables

Table	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

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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>
```

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Simple HTML Tables

Live Demo

Name	Age	Date of Birth
Emily	8 years	1 September
Tom	12 years	20 January

Data Cells and Header Cells

- Two kinds of cells in HTML 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>Excellent (6)</td>
</tr>
```

Data and Header Cells

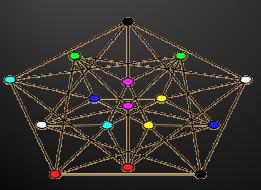
Live Demo




Complete HTML 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)

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Complete HTML Table: Example

```
<table>
  <colgroup> columns
    <col style="width:100px" /><col />
  </colgroup> header
  <thead> th
    <tr><th>Column 1</th><th>Column 2</th></tr>
  </thead>
  <tfoot> footer
    <tr><td>Footer 1</td><td>Footer 2</td></tr>
  </tfoot>
  <tbody> Last comes the body (data)
    <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>
```

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Complete HTML Table: Example (2)

table-full.html

```
<table>
  <colgroup>
    <col style="width:200px" /><col />
  </colgroup>
  <thead>
    <tr><th>Col1</th><th>Col2</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

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Nested Tables

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

```
<table>                                nested-tables.html
  <tr>
    <td>Contact:</td>
    <td>
      <table>
        <tr>
          <td>First Name</td>
          <td>Last Name</td>
        </tr>
      </table>
    </td>
  </tr>
</table>
```

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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

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Cell Spacing and Padding – Example

table-cells.html

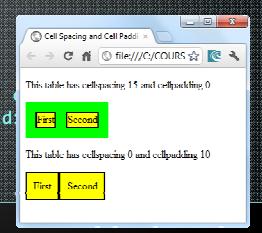
```
<html>
<head><title>Table Cells</title></head>
<body>
<table cellspacing="15" cellpadding="0">
<tr><td>First</td>
<td>Second</td></tr>
</table>
<br/>
<table cellspacing="0" cellpadding="10">
<tr><td>First</td><td>Second</td></tr>
</table>
</body>
</html>
```

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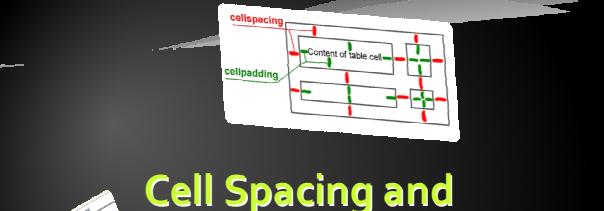
Cell Spacing and Padding – Example (2)

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>
```



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Cell Spacing and Cell Padding

Live Demo

Description	Q1 Posit	\$0.36
Small Account	10	\$39.90
EVision.com Ad	1	\$99.00
Large Account	1	\$199.00

cellspacing="15"

cellpadding="10"



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

colspan="1"	colspan="1"
cell[1,1]	cell[1,2]
cell[2,1]	

- rowspan

rowspan="2"	rowspan="1"
cell[1,1]	cell[1,2]
	cell[2,1]
	rowspan="1"

- Defines how many columns the cell occupies

- Defines how many rows the cell occupies