- ► HTML is comprised of "elements" and "tags"
 - Begins with <html> and ends with </html>
 - Elements (tags) are nested one inside

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

Tags have

```
attributes:
<img src="logo.jpg" alt="logo" />
```

HTML describes structure using two main sections:

```
<head> and <body>
```

- The HTML source code should be formatted to increase readability and facilitate debugging.
 - Every block element should start on a new line.
 - Every nested (block) element should be indented.
 - Browsers ignore multiple whitespaces in for theorpage requiremental parting matting rischarmless.

HTML CODE, FORMATTING

some-tags.html

```
<!DOCTYPE HTML>
<html>
<head>
 <title>Simple Tags Demo</title>
</head>
<body>
<a href="http://www.telerik.com/"</pre>
   title= "Telerik site">This is a
   link.</a>
<br />
<img src="logo.gif" alt="logo" />
<br />
<strong>Bold</strong> and <em>italic</em> text.
</body>
</html>
```

SOME SIMPLE TAGS – EXAMPLE

some-tags.html

```
<!DOCTYPE HTML>
<html>
<head>
  <title>Simple Tags Demo</title>
</head>
<body>
<a href="http://www.telerik.com/"</pre>
    title= "Telerik site">This is a
    link.</a>
<br />
<img src="logo.gif" alt="logo" />
<br />
<strong>Bold</strong> and <em>italic</em> text.
</body>
</html>
```

- Tags can have attributes
 - Attributes specify properties and behavior

Attribute alt with value "logo"

- Few attributes can apply to every element:
 - ▶ id, style, class, title
 - Content of title attribute is displayed as hint when the element is hovered with the mouse
 - Some elements have obligatory attributes

TAGS ATTRIBUTES

Heading Tags (h1 -

h6) ₋

```
<h1>Heading 1</h1>
<h2>Sub heading 2</h2>
<h3>Sub heading 3</h3>
```

Paragraph Tags

```
This is my first paragraph
This is my second paragraph
```

Sections: div and span

```
<div style="background:
    skyblue;"> This is a
    div</div>
```

HEADINGS AND PARAGRAPHS –

```
<!DOCTYPE HTML>
<html>
 <head><title>Headings and paragraphs</title></head>
 <body>
   <h1>Heading 1</h1>
   <h2>Sub heading 2</h2>
   <h3>Sub heading 3</h3>
   This is my first paragraph
   This is my second paragraph
   <div style="background:skyblue">
     This is a div</div>
 </body>
</html>
```

HEADINGS AND PARAGRAPHS –

```
<!DOCTYPE HTML>
<html>
 <head><title>Headings and paragraphs</title></head>
 <body>
   <h1>Heading 1</h1>
   <h2>Sub heading 2</h2>
   <h3>Sub heading 3</h3>
   This is my first paragraph
   This is my second paragraph
   <div style="background:skyblue">
     This is a div</div>
 </body>
</html>
```



INTRODUCTION TO HTML

HTML Document Structure in Depth

- 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.

PREFACE |

THE <!DOCTYPE> DECLARATION

- HTML documents must start with a document type definition (DTD)
 - It tells web browsers what type is the served code
 - Possible versions: HTML 4.01, XHTML 1.0
 (Transitional or Strict), XHTML 1.1, HTML
 5
- Tx!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0
 Transitional//EN"
 "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
 - See http://w3.org/QA/2002/04/valid-dtd-list.html for a list of possible doctypes



- XHTML is more strict than
- HTML Tags and attribute names must be in lowercase
 - All tags must be closed (
>,) while HTML allows
 and and implies missing closing tags (par1 par2)
 - > XHTML allows only one root <html> element (HTML allows more than one)

HTML VS. XHTML

- Many element attributes are deprecated in XHTML, most are moved to CSS
- Attribute minimization is forbidden, e.g.

<input type="checkbox" checked>

Note: Web browsers load XHTML faster than HTML and valid code faster than invalid!

<input type="checkbox" checked="checked" />

XHTML VS. HTML (2)

THE <HEAD> SECTION

- Contains information that doesn't show directly on the viewable page
- Starts after the <!doctype> declaration
- Begins with <head> and ends with </head>
- Contains mandatory single <title> tag
- Can contain some other tags, e.g.
 - ► <meta>
 - ▶ <script>
 - <style>

<HEAD> SECTION: <TITLE>

TA Fitle should be placed between <head> and </head> tags

<title>Telerik Academy - Winter Season 2009/2010
</title>



- Used to specify a title in the window title bar
- Search engines and people rely on titles

<HEAD> SECTION: <META>

Meta tags additionally describe the content contained within the page

```
<meta name="description"
content="HTML tutorial" />
<meta name="keywords" content="html,
web design, styles" />
<meta name="author" content="Chris Brewer"
/>
```

<meta http-equiv="refresh"
content="5;</pre>

- The <script> element is used to embed scripts into an HTML document
 - Script are executed in the client's Web browser
 - Scripts can live in the <head> and in the <body> sections
- Supported client-side scripting languages:
 - JavaScript (it is not Java!)
 - VBScript
 - JScript

<HEAD> SECTION: <SCRIPT>

THE <SCRIPT> TAG -

</body>

```
EXAMPLE HTML>
                                          scripts-example.html
        <html>
          <head>
<title>JavaScript Example</title>
            <script type="text/javascript">
              function sayHello() {
                document.write("Hello World!<\/p>");
                                   🐸 JavaScript Example - Mozilla Firefox 💹 🗖 🔀
                                    File Edit View Go Bookmarks Tools Help
            </script>
                                    </head>
          <body>
                                    Hello World!
            <script type=</pre>
                                    Done
              "text/javascript">
              sayHello();
            </script>
```

<HEAD> SECTION: <STYLE>

```
<head>
     <style type="text/css">
  p { font-size: 12pt; line-height: 12pt; }
  p:first-letter { font-size:
        200 %;;; }
uppertase; -example.html span { text-transform:
     </style>
                                                                   C:\BARS\Academy\MS.NET-Enter...
                                                                    File Edit View Favorites Tools E >>
  </head>
                                                                    G Back → D → 💌 🙎 🏠 🔎 Search
  <body>
                                                                    Address <equation-block> style-example.html 🕶 🔁 Go
                                                                                                 Links
     Styles demo.<br />
                                                                    Styles demo.
          <span>Test uppercase</span>.
     TEST UPPERCASE.
  </body>
                                                                                    My Computer
</html>
```

► The <style> element embeds formatting information (CSS styles) into an HTML

```
<!-- Telerik Logo (a JPG file) -->
<img src="logo.jpg" alt="Telerik Logo">
<!-- Hyperlink to the web site -->
<a href="http://telerik.com/">Telerik</a>
<!-- Show the news table -->

...
```

- Comments can exist anywhere between the <html></html> tags
- Comments start with <!-- and end with -->

COMMENTS: <!-- --> TAG

```
<html>
<html>
<head><title>Test page</title></head>
<body>
<!-- This is the Web page body -->
</body>
</html>
```

- The <body> section describes the viewable portion of the page
- Starts after the <head> </head> section
- Begins with <body> and ends with </body>

<BODY> SECTION: INTRODUCTION

TEXT FORMATTING

	bold
<i><i><i>></i></i></i>	italicized
<u></u>	<u>underlined</u>
	Samplesuperscript
	Sample
	strong
	emphasized
<pre></pre>	Preformatted text
<blockquote></blockquote>	Quoted text block
	Deleted text – strike through

- Text formatting tags modify the text between the opening tag and the closing tag
 - ► Ex. Hello makes "Hello" bold

text-formatting.html

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html>
 <head>
   <title>Page Title</title>
 </head>
 <body>
 <h1>Notice</h1>
 This is a <em>sample</em> Web page.
 Next paragraph:
    preformatted.
 <h2>More Info</h2>
 Specifically, we're using XHMTL 1.0 transitional.<br
   /> Next line.
 </body>
```

TEXT FORMATTING – EXAMPLE

text-formatting.html

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0</pre>
  Transitional//EN"
  "http://www.w3.org/TR/xhtml1/[ Page Title - Mozilla Firefox
                                                                            File Edit View History Bookmarks Tools Help
<html>
                                                    X ♠ ☐ file:///C:/w ☆ ▼ 🛂 ▼ face 🔎
  <head>
                                         🙋 Disable 👤 Cookies 🧪 CSS 😅 Forms 🔄 Images 🕦 Information
     <title>Page Title</title>
                                               frontendcou...
                                                         Threads obs...
                                                                     Page ... X
  </head>
  <body>
                                          Notice
  <h1>Notice</h1>
                                          This is a sample Web page.
  This is a <em>sample</em>
                                          Next paragraph:
  Next paragraph:
                                              preformatted.
      preformatted.
                                          More Info
  <h2>More Info</h2>
  Specifically, we're using
                                          Specifically, we're using XHMTL 1.0 transitional.
                                          Next line.
     /> Next line.
                                                              Fiddler: Disabled 🥦 🔕 🦞
                                          Done
  </body>
</html>
```

HYPERLINKS: <A> TAG

Link to a document called form.html on the same server in the same directory:

Link to a document called parent.html on the same server in the parent directory:

Link to a document called cat.html on the same server in the subdirectory stuff:

Link to an external Web

site:

```
<a href="http://www.devbg.org" target="_blank">BASD</a>
```

- Always use a full URL, including "http://", not just
 "www.somesite.com"
- Using the target="_blank" attribute opens the link in a new window
- Link to an e-mail address:

Please report bugs here (by e-mail only)

HYPERLINKS: <A> TAG (2)

HYPERLINKS: <A> TAG (3)

- Link to a document called apply-now.html
 - On the same server, in same directory

```
src="apply-now-button.jpg"
Link to a document called index.html
```

- On the same server, in the subdirectory
 english of the parent directory:
- Switch
 to English version

Link to another location in the same document:

```
HYPERLIN
KS AND
SECTIONS
```

```
<a href="#section1">Go to Introduction</a>
...
<h2 id="section1">Introduction</h2>
```

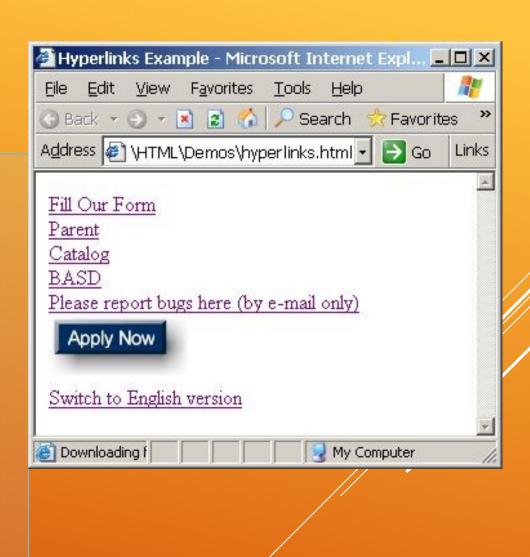
Link to a specific location in another document:

hyperlinks.html

```
<a href="form.html">Fill Our Form</a> <br />
<a href="../parent.html">Parent</a> <br />
<a href="stuff/cat.html">Catalog</a> <br />
<a href="http://www.devbg.org"_target="_blank">BASD</a>
<br />
Report">Please report bugs here (by e-mail
only)</a>
<br />
<a href="apply-now.html"><img</pre>
src="apply-now-button.jpg"
/></a> <br />
\<a href="../english/index.html">Switch to
English version</a> <br />
```

hyperlinks.html

```
href="../parent.html">Parent</a> <br />
  href="stuff/cat.html">Catalog</a> <br />
<a <a href="http://www.devbg.org"</a>
target="_blank">BASD</a> <bre><bre>
/>
<a
href="mailto:bugs@example.com?subject=Bug"
Report">Please report bugs here (by e-mail
only)</a>
<br />
<a href="apply-now.html"><img</pre>
src="apply-now-button.jpg" /></a> <br />
<a href="../english/index.html">Switch
```



LINKS TO THE SAME DOCUMENT – EXAMPLE

links-to-same-document.html

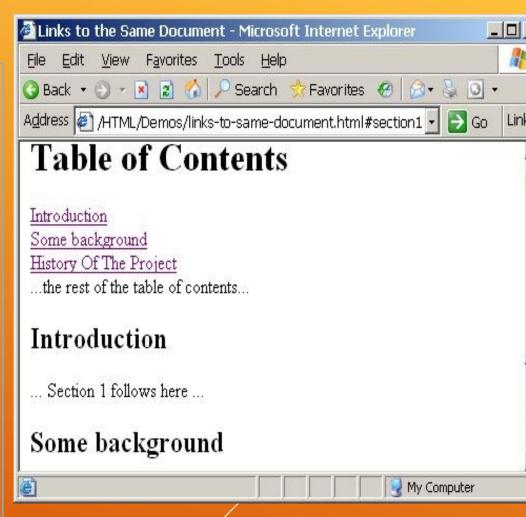
```
<h1>Table of Contents</h1>
<a href="#section1">Introduction</a><br />
<a href="#section2">Some background</A><br />
<a href="#section2.1">Project History</a><br</pre>
...the rest of the table of contents...
<!-- The document text follows here -->
<h2 id="section1">Introduction</h2>
... Section 1 follows here ...
<h2 id="section2">Some background</h2>
... Section 2 follows here ...
<h3 id="section2.1">Project History</h3>
   Section 2.1 follows here ...
```

LINKS TO THE SAME DOCUMENT

- EXAMPLE (2)

links-to-same-document.html

```
<h1>Table of Contents</h1>
<a href="#section1">Introduction</a><br />
<a href="#section2">Some background</A><br />
<a href="#section2.1">Project History</a><br</pre>
...the rest of the table of contents...
<!-- The document text follows here -->
<h2 id="section1">Introduction</h2>
... Section 1 follows here ...
<h2 id="section2">Some background</h2>
   Section 2 follows here ...
<h3 id="section2.1">Project History</h3>
... Section 2.1 follows here ...
```



◆ Inserting an image with

♦ Image attributes:

src	Location of image file (relative or absolute)
alt	Substitute text for display (e.g. in text mode)
height	Number of pixels of the height
width	Number of pixels of the width
border	Size of border, 0 for no border

IMAGES: TAG



MISCELLANEOUS TAGS

misc.html

```
<html>
 <head>
   <title>Miscellaneous Tags Example</title>
 </head>
  <body>
    <hr size="5" width="70%" />
    <center>Hello World!</center>
   <font size="3" color="blue">Font3</font>
    <font size="+4" color="blue">Font+4</font>
 </body>
</html>
```



ORDERED LISTS: TAG

```
  Apple
  Orange
  Grapefruit
```

Create an Ordered List using

Attribute values for type are1, A, a, I, or i

Apple
Orange
3. Grapefruit
A. Apple
B. Orange

Grapefruit

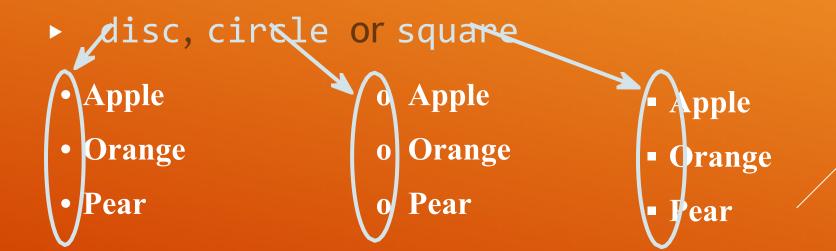
Apple
Orange
I.
Grapefruit

i. Apple
ii. Orange
Grapefruit

Apple
Orange
Grapefruit

```
    Apple
    Orange
    Grapefruit
```

- Attribute values for type are:



Create definition lists using <dl>

Pairs of text and associated definition; text is in <dt> tag, definition

in <dd>tag

- Renders without bullets
- Definition is indented

DEFINITION LISTS: <DL> TAG

```
lists.html
     Apple
                                                  🏉 Lists Example - Windows Internet Exp... 🖂 🗀 🔀
     Orange
                                                                       ▼ → 🗙 🛂 tag i
     Grapefruit
                                                          @ lists.html
                                                                                * Favorites
                                                            E Lists Example
                                                     1. Apple
2. Orange
                                                     3. Grapefruit
     Apple
                                                     · Apple
     Orange

    Orange

    Grapefruit

     Grapefruit
HTML
                                                       A markup language designed for the creation
                                                       of web pages with hypertext and other
                                                       information
<d1>
                                                   CSS
                                                       Language used to describe how an HTML
     <dt>HTML</dt>
                                                       document should be formatted.
     <dd>A markup lang...</dd>
                                                   Javascript
                                                       A scripting language produced by Netscape
</dl>
                                                       for use within HTML Web pages.
                                                  Note: 1 Protected Mode: 0 € ▼ 105% ▼
```

HTML SPECIAL CHARACTERS

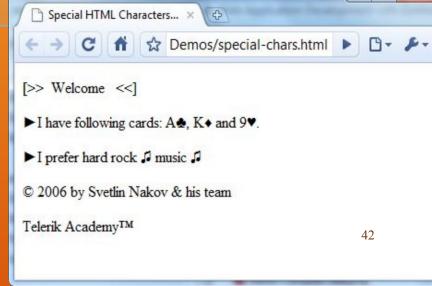
Symbol Name	HTML Entity	Symbol
Copyright Sign	©	©
Registered Trademark Sign	®	®
Trademark Sign	™	TM
Less Than	&1t;	<
Greater Than	>	>
Ampersand	&	&
Non-breaking Space		
Em Dash	—	
Quotation Mark	"	"
Euro	€ ;	€
British Pound	£	£
Japanese Yen	¥	¥

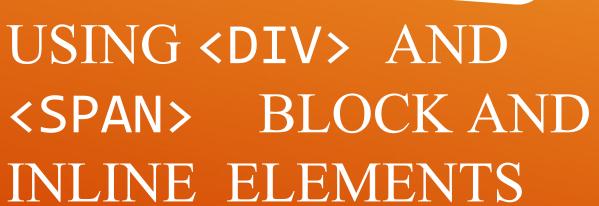
```
special-chars.html
{p>[>>  Welcome
    <&lt;]
 ►I have following cards:
  A♣, K♦ and
  9♥.
 ► I prefer hard rock
  ♫ music ♫
 © 2006 by Svetlin Nakov &
his team
 Telerik Academy™
```

SPECIAL CHARACTERS – EXAMPLE

```
special-chars.html
{p>[>>  Welcome]
    <&lt;]
 ►I have following cards:
  A♣, K♦ and
  9♥.
 ► I prefer hard rock
  ♫ music ♫
 © 2006 by Svetlin Nakov &
his team
                          Special HTML Characters... ×
 Telerik Academy™
```

SPECIAL CHARS – EXAMPLE (2)







- Block elements add a line break before and after them <div> is a block element
 - Other block elements are , <hr>>, headings, lists, and etc.
 - A block-level element always takes up the full width available (stretches out to the left and right as far as it can).
 - Further tags: https://www.w3schools.com/html/html_blocks.asp
- Inline elements don't break the text before and after them
 - is an inline element

 - Note: An inline element cannot contain a block-level element!
- An inline element only takes up as much width as necessary.

BLOCK AND INLINE ELEMENTS

- <div> creates logical divisions within a page
- Block style element
- Used with CSS

Example:

div-and-span.html

```
<div style="font-size:24px;
color:red">DIV example</div>
This one is <span style="color:red;
font-weight:bold">only a

test</span>.
```

THE <DIV> TAG



- Inline style element
- Useful for modifying a specific portion of text
 - Don't create a separate area (paragraph) in the document
- Very useful with CSS

My Computer



- 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: : begin / end the table

Tables should not be used for layout. Use CSS floats and positioning styles instead.

HTML TABLES

```
Start and end of a
```

Start and end of a

row

Start and end of a cell in a

row

HTML TABLES (2)

```
1</a>
 <img src="ppt.gif">
  <a href="lecture2.ppt">Lecture</a>
  2</a>
 <img src="zip.gif">
  <a href="lecture2-demos.zip">
    Lecture 2 - Demos</a>
```

SIMPLE HTML TABLES – EXAMPLE

```
<img src="ppt.gif">
  <ta><a
href="lecture1.ppt">Lecture
1</a>
 <img src="ppt.gif">
  <ta><a</a>
href="lecture2.ppt">Lecture
2</a>
 <img src="zip.gif">
  <a href="lecture2-demos.zip">
    Lecture 2 - Demos</a>
```



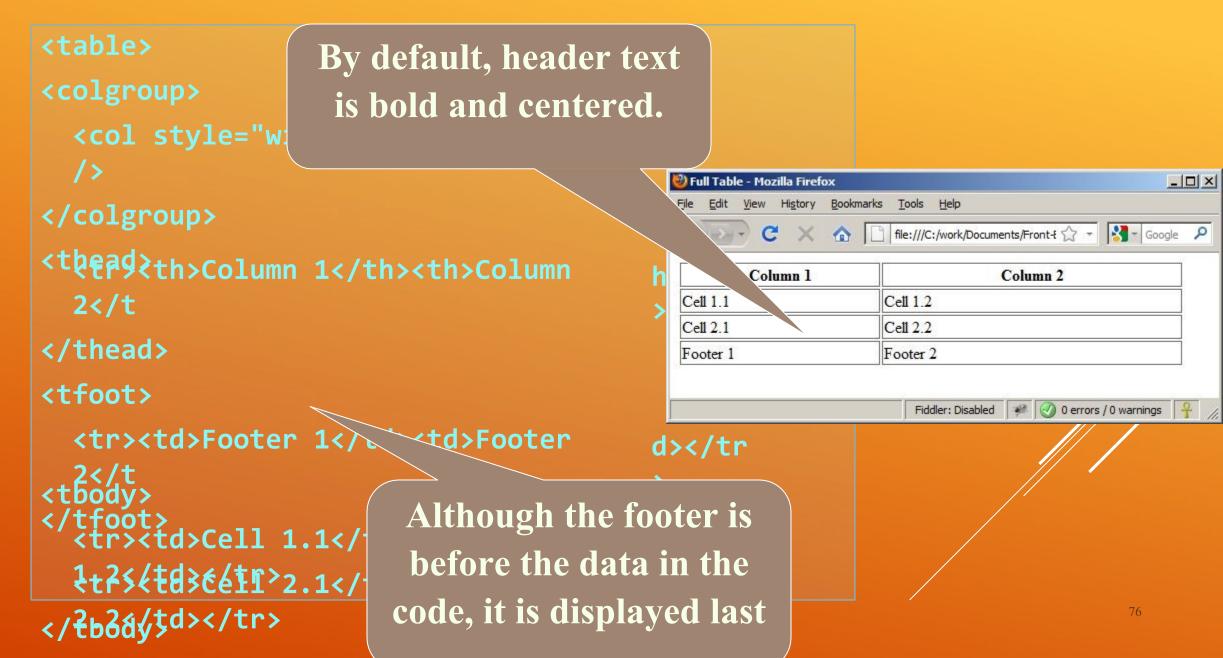
- Table rows split into three semantic sections: header, body and footer <thead> denotes table header and contains elements, instead of elements
 - denotes collection of table rows that contain the very data
 - <tfoot> denotes table footer but comes BEFORE the tag
 - <colgroup> and <col> define columns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

COMPLETE HTML TABLES

COMPLETE HTML TABLE: EXAMPLE

```
columns
<colgroup>
  <col style="width:100px" /><col
                                                th
</colproup>
                    header
<thead>
  \langle tr \rangle \langle th \rangle Column f \circ \langle teh \rangle \langle th \rangle Column
  2
</thead>
<tfoot>
 Footer 1t
 d > F oo t e r 2 < b o d y (d a ta)
 /tfoot>
```

table-full.html



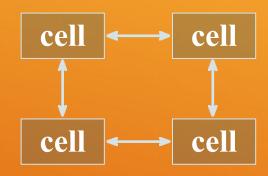
```
Contact:
 First Name
   Last Name
  NESTED TABLES
```

nested-tables.html

Table data "cells" () can contain nested tables (tables within tables):

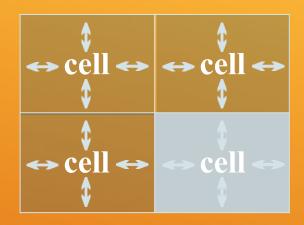


- Tables have two important attributes:
- ◆ cellspacing



Defines the empty space between cells

cellpadding



♦ Defines the empty space around the cell content

CELL SPACING AND PADDING

CELL SPACING AND PADDING – EXAMPLE

table-cells.html

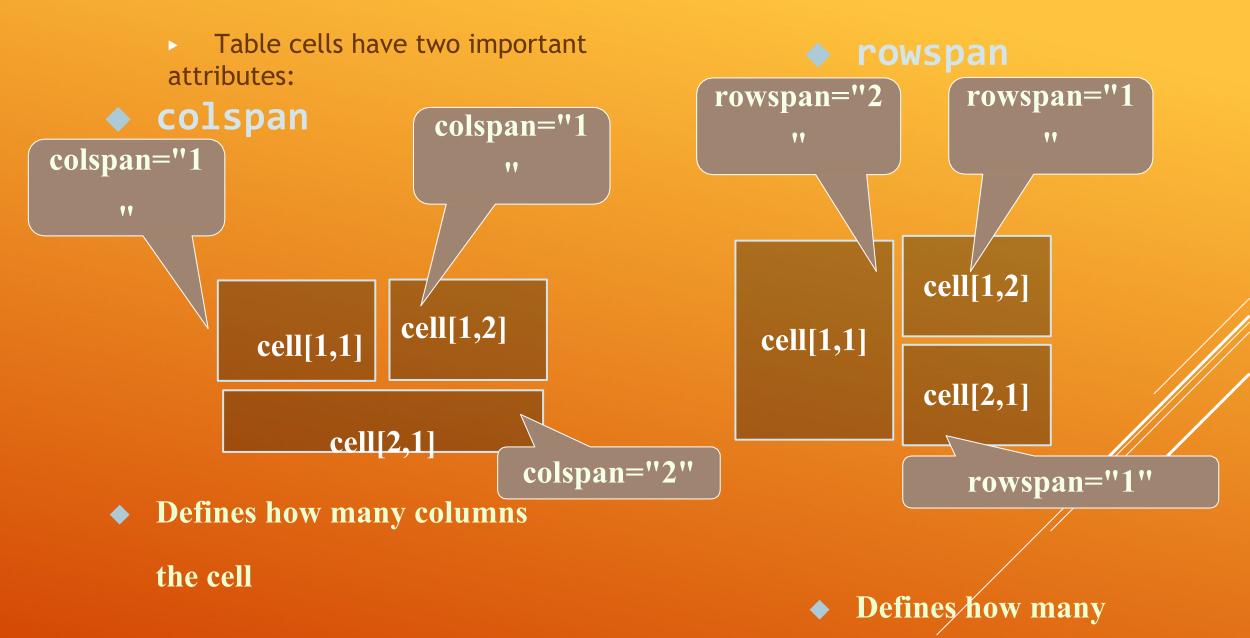
</html>

```
<html>
<head><title>Table Cells</title></head>
<body>
 First
  Second
 <br/>
 FirstSecond
 </body>
```

CELL SPACING AND PADDING – EXAMPLE (2)

table-cells.html

```
<html>
  <head><title>Table Cells</title></head>
  <body>
                                                                     🛂 Table Cells Properties - Mozilla Firefox
                                                     View History Bookmarks Tools Help
   - C × ♠ ☐ file:// ☆ - 🛂 - Gc 🔎
      First
                                                 This table has cellspacing 15 and cellpadding 0
      Second
   First Second
   <br/>
                                                 This table has cellspacing 0 and cellpadding 10
   First
                                                     Second
      FirstSecond
   Fiddler: Disabled 🥟 🕢 0 errors / 0 warnings 🧣
                                                 Done
```



```
table-colspan-rowspan.html
              Cell[2,1]
            Cell[1,2]
              Cell[2,2]
              Cell[3,2]
            Cell[1,3]
              Cell[2,3]
```

COLUMN AND 'R/tOabWle' SPAN – EXAMPLE

COLUMN AND ROW SPAN –

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

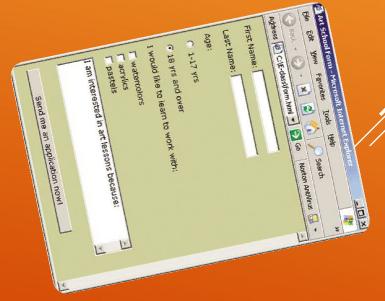
Cell[1,1]	Cell[2,1]	
Cell[1,2]	Cell[3,2] Cell[2,2]	
Cell	[1,3] Cell	[2,3]



HTML FORMS



Entering User Data from a Web Page



- Forms are the primary method for gathering data from site visitors
- Create a form block with <form></form>

Example:

HTML FORMS

The "method" attribute tells how the form data should be sent – via **GET or POST request**

```
<form name="myForm" method=/post"</pre>
action="path/to/some-script.php">
</form>
```

The "action" attribute tells where the form data should be sent

Multi-line textarea fields:

```
<textarea name="Comments">This is a multi-line
text field</textarea>
```

Hidden fields contain data not shown to the

```
value="This is a hidden text field" />
```

Often used by JavaScript code

FORM FIELDS

Fieldsets are used to enclose a group of related

forfields:

```
<fieldset>
   <legend>Client Details</legend>
   <input type="text" id="Name" />
   <input type="text" id="Phone" />
</fieldset>
<fieldset>
   <legend>Order Details</legend>
   <input type="text" id="Quantity"</pre>
   />
   <textarea cols="40" rows="10"
      id="Remarks"></textarea>
```

► The <legend> is the fie<l/dfsieet1'sdstiettl>e.

</form>
FIELDSETS

Checkboxes:

```
<input type="checkbox"
name="fruit" value="apple" />
```

```
<input type="radio" name="title" value="Mr." />
```

- Radio buttons:
- Radio buttons can be grouped, allowing only one to be selected from a group:

```
<input type="radio" name="city" value="Lom" />//
<input type="radio" name="city" value="Ruse"//>/
```

FORM INPUT CONTROLS

Dropdown menus:

```
<select name="gender">
  <option value="Value 1"</pre>
    selected="selected">Male</option>
  <option value="Value</pre>
  2">Female</option>
  <option value="Value 3">Other</option>
</select>
```

```
Submit button: <input type="submit"</pre>
             name="submitBtn" value="Apply Now"
             />
```

OTHER FORM CONTROLS

```
Reset button - brings the form to its initial 
<input type="reset"</p>
state
              name="resetBtn" value="Reset the
 Image button - acts like submit but image is
   displayed and click coordinates are sent
             <input type="image"</pre>
             src="submit.gif" name="submitBtn"
► Ordinary baltōnSubmit for Javascript, no
   default action
            <input type="button" value="click me" />
```

OTHER FORM CONTROLS (2)

OTHER FORM CONTROLS (3)

Password input - a text field which masks the entered text with * signs

```
<input type="password" name="pass" />
```

 Multiple select field - displays the list of items in multiple lines, instead of one

```
<select name="products"
multiple="multiple">
    <option value="Value 1"
        selected="selected">keyboard</option
        >
        <option value="Value 2">mouse</option>
        <option value="Value 3">speakers</option>
        </select>
```

File input - a field used for uploading files

```
<input type="file" name="photo" />
```

When used, it requires the form element to have a specific attribute:

OTHER FORM CONTROLS (4)

Form labels are used to associate an explanatory text to a form field using the field's ID.

```
<label for="fn">First Name</label>
<input type="text" id="fn" />
```

- Clicking on a label focuses its associated field (checkboxes are toggled, radio buttons are checked)
- Labels are both a usability and accessibility feature and are required in order to pass accessibility validation.

LABELS

form.html

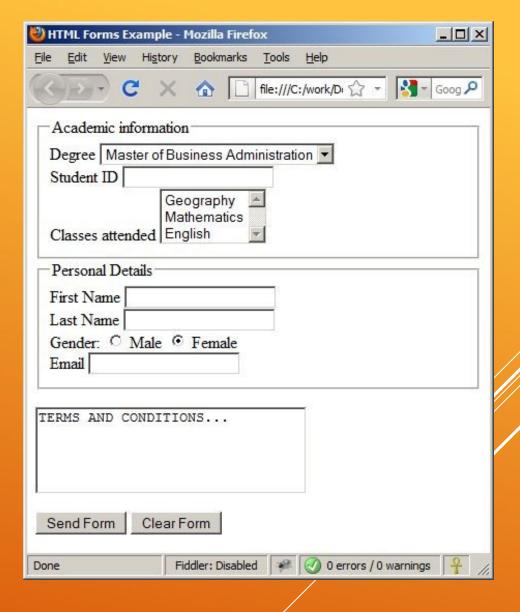
```
<option value="BA">Bachelor of Art</option>
    <option value="MBA" selected="selected">Master
      of Business Administration</option>
  </select>
  <br />
  <label for="studentid">Student ID</label>
  <input type="password" name="studentid" />
</fieldset>
<fieldset><legend>Personal Details</legend>
  <label for="fname">First Name</label>
  <input type="text" name="fname" id="fname" />
  <br />
  <label for="lname">Last Name</label>
  <input type="text" name="lname" id="lname" />
```

HTML FORMS – EXAMPLE (2)

form.html (continued)

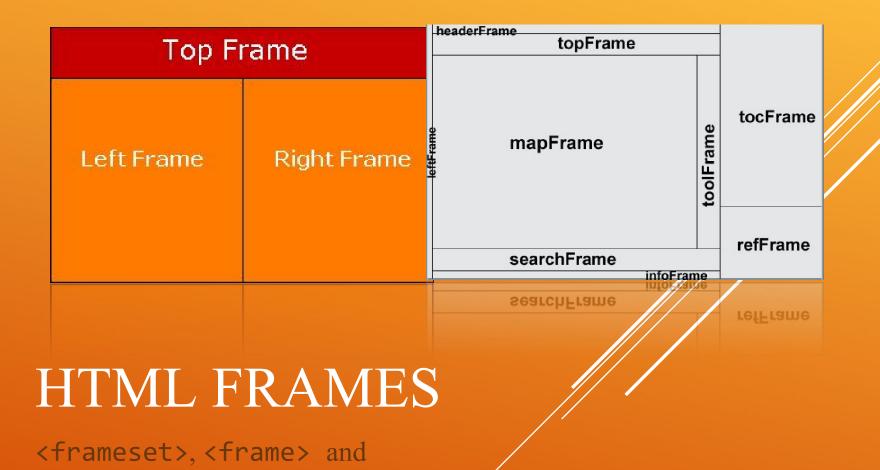
```
Gender
    <input name="gender" type="radio" id="gm" value="m" />
    <label for="gm">Male</label>
    <input name="gender" type="radio" id="gf" value="f" />
  <br/>klabel for="gf">Female</label>
   <label for="email">Email</label>
   <input type="text" name="email" id="email" />
</fieldset>
  >
   <textarea name="terms" cols="30" rows="4"</pre>
    readonly="readonly">TERMS AND
    CONDITIONS...</textarea>
 >
   <input type="sebmit"value="6lbmitformIue="Send Form" />
```

form.html (continued)



- The tabindex HTML attribute controls the order in which form fields and hyperlinks are focused when repeatedly pressing the TAB key
 - tabindex="0" (zero) "natural" order
 - If X > Y, then elements with tabindex="X" are iterated before elements with tabindex="Y"
 - Elements with negative tabindex are skipped, however, this is
 not defined in the standard
 <input type="text" tabindex="10" />

TABINDEX



<iframe>

- Frames provide a way to show multiple HTML documents in a single
 Web page
- The page can be split into separate views (frames) horizontally and vertically
- Frames were popular in the early ages of HTML development, but now their usage is rejected
- Frames are not supported by all user agents (browsers, search engines, etc.)
 - A <noframes> element is used to provide content for non-compatible agents.

HTML FRAMES

frames.html

```
<html>
    <head><title>Frames Example</title></head>
    <frameset cols="180px,*,150px">
         <frame src="left.html" />
         <frame src="middle.html" />
         <frame src="middle.html" />
         <frame src="right.html" />
         </frameset>
    </html>
```

HTML FRAMES – DEMO

Inline frames provide a way to show one website inside anothersite:

iframe-demo.html

INLINE FRAMES: <IFRAME>





Cascading Style Sheets (CSS)

```
#content .article img.left.border {
padding: 0 9px 9px 0;
border-right: lpx dotted #999;
border-bottom: lpx dotted #999; }

#content .article blockquote {
margin-left: l0px;
padding-left: l0px;
border-left: 3px solid #252525; }

#content .article ul {
padding-left: lem;
list-style-type: circle; }
```

- What is CSS? Styling with Cascading Stylesheets (CSS)
- Selectors and style definitions
- Linking HTML and CSS
- Fonts, Backgrounds, Borders
- The Box Model
- Alignment, Z-Index, Margin, Padding
- Positioning and Floating Elements
- Visibility, Display, Overflow
- CSS Development Tools

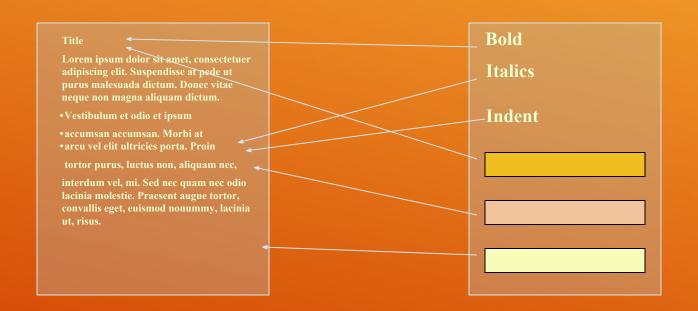
TABLE OF CONTENTS

CSS: A NEW PHILOSOPHY

Separate content from presentation!



Presentation (CSS Document)



THE RESULTING PAGE

Title

Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
Suspendisse at pede ut purus malesuada dictum. Donec vitae neque non magna aliquam dictum.

- Vestibulum et odio et ipsum
- •accumsan accumsan. Morbi at
- arcu vel elit ultricies porta. Proin

Tortor purus, luctus non, aliquam nec, interdum vel, mi. Sed nec quam nec odio lacinia molestie. Praesent augue tortor, convallis eget, euismod nonummy, lacinia ut, risus.

CSS INTRO



Styling with Cascading Stylesheets

- Cascading Style Sheets
- (CSS) Used to describe the presentation of documents
 - Define sizes, spacing, fonts, colors, layout, etc.
 - Improve content accessibility
 - Improve flexibility
- Designed to separate presentation from content
- Due to CSS, all HTML presentation tags and attributes are deprecated, e.g. font, center, etc.

CSS INTRODUCTION

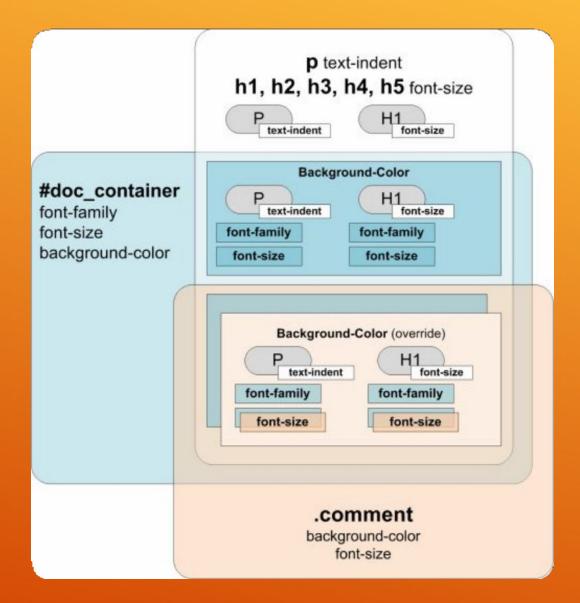
- document just to HTML / XHTML
- CSS can specify different styles for different media
 - On-screen
 - ► In print
 - Handheld, projection, etc.
 - ... even by voice or Braille-based reader

CSS INTRODUCTION (2)

- Priority scheme determining which style rules apply to element assigned to the rules
 - Child elements in the HTML DOM tree inherit styles from their parent
 - Can override them
 - ► Control via !important rule

WHY "CASCADING"?

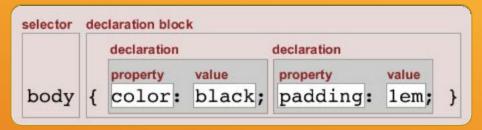
WHY "CASCADING"? (2)



- Some CSS styles are inherited and some not
 - Text-related and list-related properties are inherited Color, font-size, font-family, line-height, text-align, list-style, etc
 - Box-related and positioning styles are not inherited Width, height, border, margin, padding, position, float, etc
 - <a> elements do not inherit color and text-decoration

WHY "CASCADING"? (3)

 Stylesheets consist of rules, selectors, declarations, properties and values



Selectors are separated by commas

http://css.maxdesign.com.au/

- Declarations are separated by semicolons
- Properties and values are separated by

colons

```
h1,h2,h3 { color: green; font-weight: bold; }
```

STYLE SHEETS SYNTAX