Client Side Programming: HTML

Introduction:

- Web technologies can be categorized into two types:
- Client side
- Server side
- Client side technologies are used for designing and performing client side validations.
- Server side technologies are used for fetching the data from database and implementing business logic.

Introduction:

- Web technologies can be categorized into two types:
- Client side
- Server side
- Client side technologies are used for designing and performing client side validations.
- ¹ Server side technologies are used for fetching the data from database and implementing business logic.

HTML (Hyper Text Markup Language)

- Commonly used to create the web page.
- Provides a means to describe the structure of text and graphics on a web page.
- HTML is developed and maintained by World Wide Web Consortium(W3C).

HTML Document Structure

```
| <!DOCTYPE>
| <Html>
| <Head>
| <Title>
| </Title>
| </Title>
| </Head>
| <Body>
| </Body>
| </Html>
```

- ! <!DOCTYPE>
- Is the first tag in HTML document which specifies DTD used by the document.
- A DTD is separate file containing formal definition of grammar used in markup language.
- The browser checks the code of document against the rule in <!DOCTYPE> declaration.
- Tells the browser about the version of language.
- Does not have a closing tag The <!DOCTYPE> declaration helps the browser to display a web page correctly.

- There are many different documents on the web, and a browser can only display an HTML page 100% correctly if it knows the HTML type and version used.
- The <title> tag contains the title of HTML document that appears in the title bar of web page.
- It is used by search engine to refer the document.
- <body> tag contains body of html document.
- It includes entire content that will appear in the web browser.
- Can also include text, images and multimedia elements.

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
- Example:

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0
Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1transitional.dtd">

•<head> Section: <title> tag

Title should be placed between < head> and < /head> tags



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

• 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>
 - <!-- comments -->

```
| <!DOCTYPE html>
| <html>
| <body>
| My first paragraph.
| </body>
| </html>
```

First HTML Page

· test.html

• <!DOCTYPE HTML> <html> <head> <title>My First HTML Page</title> </head> <body> This is some text that will appear on web page </body> My First HTML Page - Microsoft Internet Explorer </html> Edit <u>V</u>iew F<u>a</u>vorites Tools

Done

HTML Headings

```
HTML headings are defined with the <h1>
 to <h6> tags.
| <!DOCTYPE html>
| <html>|
d
<h1>This is heading 1</h1>
<h2>This is heading 2</h2>
<h3>This is heading 3</h3>
<h4>This is heading 4</h4>
<h5>This is heading 5</h5>
\square <h6>This is heading 6</h6>
( /html>
```

HTML Headings

- Browsers automatically add some empty space (a margin) before and after each heading.
- Use HTML headings for headings only. Don't use headings to make text BIG or bold.
- Search engines use your headings to index the structure and content of your web pages.
- H1 headings should be used as main headings, followed by H2 headings, then the less important H3 headings, and so.

images

- HTML images are defined with the tag.
- <!DOCTYPE html>
- <html>
- body>
- </body>
- </html>

images

- The tag is empty, which means that it contains attributes only, and has no closing tag.
- To display an image on a page, you need to use the src attribute.
- Src stands for "source".
- The value of the src attribute is the URL of the image you want to display.

images

- The alt attribute specifies an alternate text for an image, if the image cannot be displayed.
-
- The alt attribute provides alternative information for an image if a user for some reason cannot view image.
- The height and width attributes are used to specify the height and width of an image.
- The attribute values are specified in pixels by default:

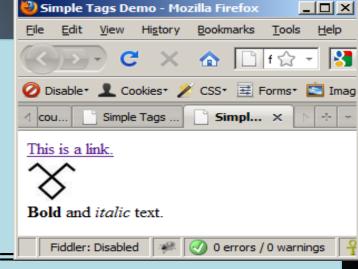
Some Simple Tags –Example

some-tags.html

- <!DOCTYPE HTML>
- <html>
- <head>
- <title>Simple Tags Demo</title>
- </head>
- <body>
- <a href="http://www.tsec.com/" title=</p>
- "TSEC site">This is a link.
-

-
-

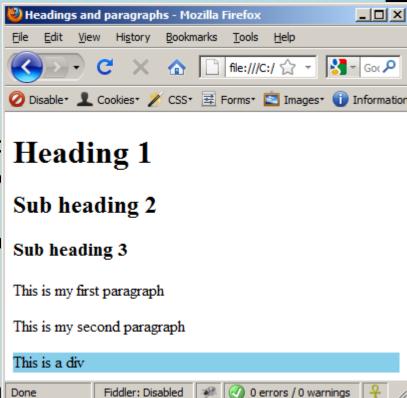
- Bold and italic text.
- </body>
- </html>



Headings and Paragraphs – Example

headings.html

- <!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 paragrap
- <div style="background:skyblue"
- This is a div</div>
- . </body>
- </html>



- Attributes provide additional information about HTML elements.
- Attributes are always specified in the start tag
- Attributes come in name/value pairs like: name="value"
- Attribute values should always be enclosed in quotes.

- The <hr> tag creates a horizontal line in an HTML page.
-
 tag is used for line break.

Text Formatting

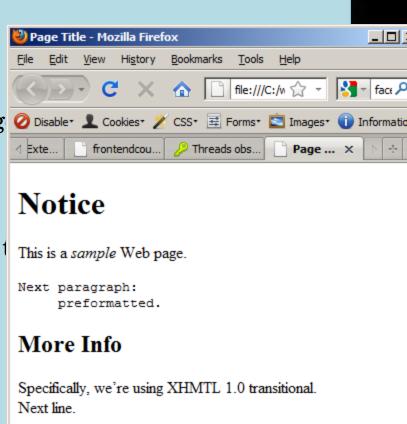
- Text formatting tags modify the text between the opening tag and the closing tag
 - Ex. < b> Hello< /b> makes "Hello" bold

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

• Text Formatting – Example

Done

- <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
- "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
- <html>
- <head>
- <title>Page Title</title>
- </head>
- <body>
- h1>Notice</h1>
- This is a sample Web pag ② Disable → L Cookies → Z CSS → E Forms → L Mages → D Information
- Next paragraph:
- preformatted.
- <h2>More Info</h2>
- Specifically, we're using XHMTL 1.0
- Next line.
- . </body>
- </html>



Fiddler: Disabled

HTML Links(Hyperlink)

- The HTML <a> tag defines a hyperlink.
- A hyperlink (or link) is a word, group of words, or image that you can click on to jump to another document.
- When you move the cursor over a link in a Web page, the arrow will turn into a little hand.
- The most important attribute of the <a> element is the href attribute, which indicates the link's destination.

Web Programming

Hyperlinks: <a> Tag

Link to a document called form .htm lon the same server in the same directory:

- Link to a document called parent.htm lon the same server in the parent directory:
- Link to a document called cat.htm lon the same server in the subdirectory stuf.f
 - Fill Our Form
 - Parent
 - ' Catalog

- Hyperlinks: <a> Tag
- Link to an external Web site:
 - 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:
 - <a h re f= "http://www.devbg.org"
 target= "_blank"> BASD < /a>

 - · Please report bugs here (by e-m ailonly)< /a>

- Hyperlinks: <a> Tag
- Link to a document called apply-now htm l
 - On the same server, in same directory
 - Using an image as a link button:

- Link to a document called index .htm l
 - On the same server, in the subdirectory english of the parent directory:
 - ' <img</pre>
 - src="apply-now-button.jpg"/>
 - ' Switch to
 English version

Hyperlinks and Sections

- Link to another location in the same document:
- Link to a specific location in another document:

Hyperlinks – Example

hyperlinks.html

- Fill Our Form

- Parent

- Catalog
/>
- BASD

- Please report bugs here (by e-mail only)
-

-
 /></pr/>
- Switch to English version

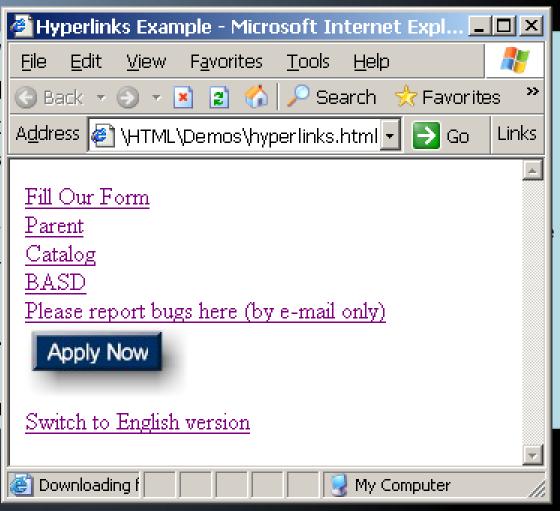
Hyperlinks – Example

hyperlinks.html

- <a href="form.html"
- -<a href="../parent.ht
- --<
- <a href="http://www

- <a href="mailto:bug report bugs here (by
-

- <a href="apply-now.
 />
br />
- <a href="../english/ii



Links to the Same Document– Example

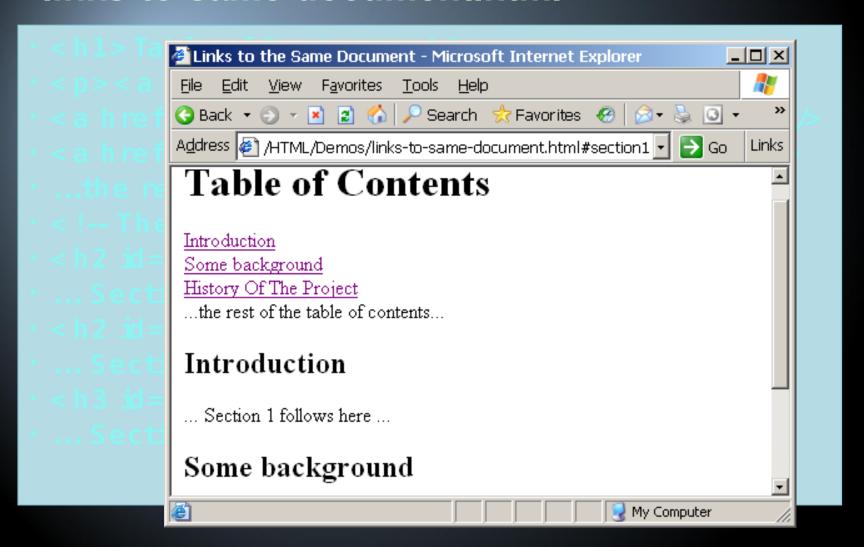
links-to-same-document.html

- < h1> Table of Contents< /h1>
- < a href= "# section1"> Introduction< /a> < br />
- < a href= "# section2"> Som e background< /a> < br />
- < a href= "# section2.1"> Project H istory< /a> < br />
- ...the rest of the table of contents...
- < !-- The docum ent text follows here -->
- < h2 id= "section1"> Introduction< /h2>
- · ... Section 1 follows here ...
- < h2 id= "section2"> Som e background< /h2>
- · ... Section 2 follows here ...
- < h3 id= "section2.1"> Project H istory< /h3>
- · ... Section 2.1 follows here ...

- By default, links will appear as follows in all browsers:
- An unvisited link is underlined and blue
- A visited link is underlined and purple
- An active link is underlined and red
- click here

Links to the Same Document – Example

· links-to-same-document.html



- Miscellaneous Tags
- < h r /> : Draws a horizontal rule (line):
- < center> < /center> : Deprecated!
- < fon t> < /fon t> : Deprecated!
 - <hr size="5" width="70%" />

- <center>Hello World!</center>
- Font3
- Font+4

Miscellaneous Tags – Example

· misc.html



Ordered Lists: Tag

- Create an Ordered List using < o ▷ < /o ▷ :
- Attribute values for type are 1, A, a, I, or i
 - •
 - Apple
 - Orange
 - Grapefruit
 - •

1.Apple2.Orange3.Grapefruit

A.Apple B.Orange C.Grapefruit a.Apple b.Orange c.Grapefruit i. Apple ii. Orange iii. Grapefruit

I. Apple II. Grange III. Grapefruit

Unordered Lists: Tag

• Create an Unordered List using < u b < /u b :

- AppleOrange
- Grapefruit
- •
- Attribute values for type are:
 - djsc, circle or square
 - AppleOrangePear

O Apple
O Orange
O Pear

AppleOrangePear

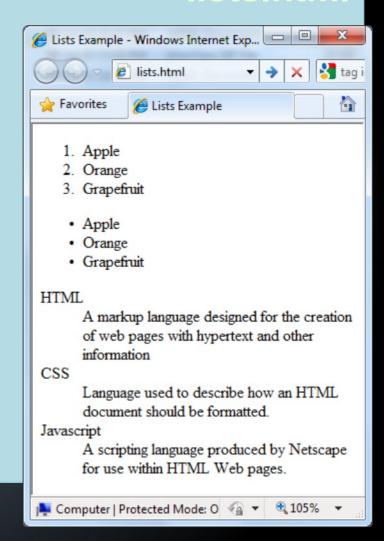
- Create definition lists using < d >
 - Pairs of text and associated definition; text is in
 dt> tag, definition in < dd> tag
 - <dl>
 - <dt>HTML</dt>
 - <dd>A markup language ...</dd>
 - <dt>CSS</dt>
 - <dd>Language used to ...</dd>
 - </dl>

- Renders without bullets
- Definition is indented

Lists – Example

- •
- Apple
- Orange
- Grapefruit
- •
- Apple
- Orange
- Grapefruit
- •
- <dl>
- < dt > HTML < / dt >
- <dd>A markup lang...</dd>
- </dl>

· lists.html



HTML Special Characters

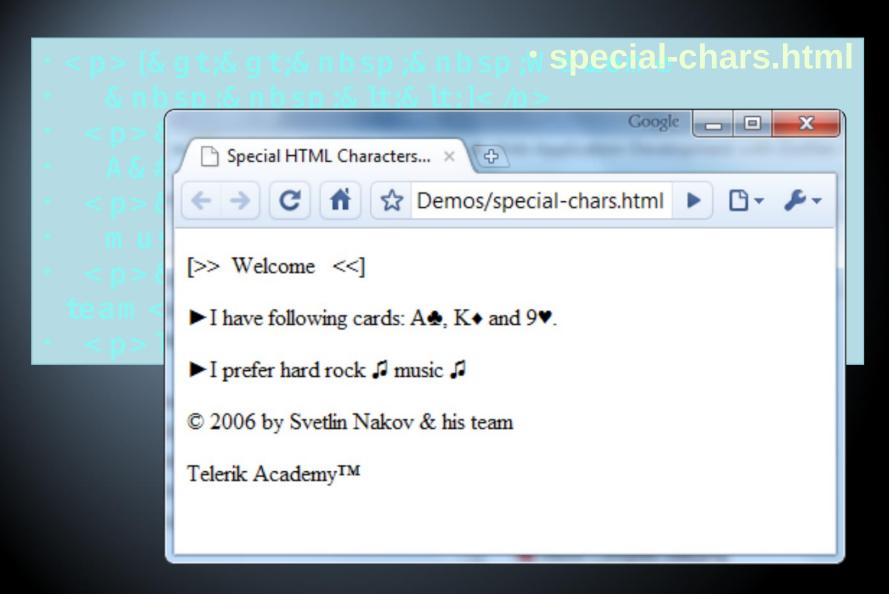
Symbol Name	HTML Entity	Symbol
Copyright Sign	& copy;	©
Registered Trademark Sign	& reg;	®
Trademark Sign	& trade;	ТМ
Less Than	& lt;	<
Greater Than	& g t;	>
Ampersand	&	&
Non-breaking Space		
Em Dash	&m dash;	
Quotation Mark	"	
Euro	€	€
British Pound	& pound;	£
Japanese Yen	¥	¥

Special Characters – Example

- [>> Welcomespecial-chars.html]
- <<]
- ►I have following cards:
- A♣, K♦ and 9♥.
- ►I prefer hard rock ♫
- music ♫
- © 2006 by Svetlin Nakov & amp; his team
- Telerik AcademyTM

Web Programming

Special Chars – Example



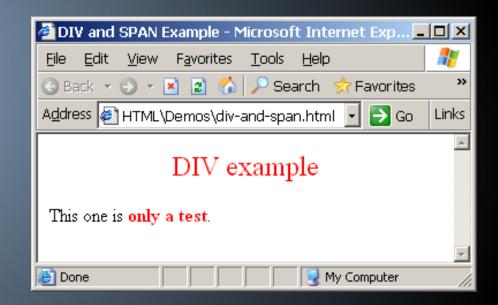
Block and Inline Elements

- Block elements add a line break before and after them
 - < div> is a block element
 - Other block elements are , < hr> , headings, lists, and etc.
- Inline elements don't break the text before and after them
 - < span> is an inline element
 - Most HTML elements are inline, e.g. < a>

Web Programming

• The <div> Tag

- < 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></div>
- This one is only a test.

• The Tag

Edit View Favorites

Address 🔊 span.html 🔻 🔁 Go

This one is another TEST

My Computer

Links

🔾 Back 🕶 🕘 🕶 🙎 🏠

This one is only a test.

- Inline style element
- Useful for modifying a specific portion of text

 Don't create a separate area (paragraph) in the SPAN Example - Microsoft... 👤 🔲 🗴

document

Very useful with CSS

span.html

- This one is only a test.
- This one is another TEST.

chead - Create HTML Tables Chiffes - Chiffes How To Create HTML Tables Chiffes

To valign stop cht mbbei lett corner craz-ctd width=110 valign=top> Spt Manuel 10 Aguaturos

Litter

LITT

chody border cellspacing cellpadding collaboration

To valign stop

and widthe 110 valignetop? owner in valight

"ctd width= 110 valign=top>

Spriplower left corner and width=110 valign=top> ca wight corner

2H17 <|table> ripody

∠br≻left center cell

< hd>

			Dollar	Chinese money	IP addresses	Names	Numbers
'S time	European date (D/M/Y) & time	Y-M-D date & time	Donar	YMB 4	98.176.35.80		26.32 E +03
US naie	29/10/1965	83-03-24			162.117.253.34	dyse chidi	
Fri Mar 22 21:48:49 UTC+0200 1957		1967-08-22 06:07:16 PM		YMB -81.38		bochai dychai	-191.45E-05
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	-	-131.20E+01
Monday, May 30, 1994 4:47:31 PM	06/09/05 05:11:16 AM			YMB 33.16		dydy balie	-131.20E+01
	24/11/1957		\$-38.77	YMB 112.42	15.192.151.209		
09/28/2000	24/11/1957	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
Sar, 9 Jan 1982 05:45:00 010 04:05/75	04/00/08	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
his is footer	row	number	ONE!	adsf	adsf	adsf	adsf
bis is footer	LOM.	maker	ONE	995	PPE	900	adaf

HTML Tables

					Title
Title	Title	Title	Title	Title	Title
			Data	Data	Data
Data	Data	Data	Data	Duta	
	Deta	Data	Data	Data	Data
Data	Data Data	Data		Data	Data
Data	Data	Data	Data	Data	Date
Data		Data	Data	Data	Data
Data	Data	Data	Dute		Data
Data	Data	Data	Data	Data	Dala

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: : begin / end
 the table
 - : create a table row
- : create tabular data (cell)
- Tables should not be used for layout. Use CSS floats and positioning styles instead

HTML Tables

- Start and end of a table
- Start and end of a row
- Start and end of a cell in a row

Simple HTML Tables – Example

```
 < im g src= "ppt.gif"> 
  < a href= "lecture1.ppt"> Lecture 1 < /a > 
 < im g src= "ppt.gif"> 
   < a h re f= "lecture2.ppt"> Lecture 2< /a> 
  < im g src = "zip.gif" > 
   < a href= "lecture2-dem os.zip">
   Lecture 2 - Dem os< /a> 
 •
```

Simple HTML Tables – Example

```
 < im g src= "ppt.gif">
  < a h re f= "lecture1.ppt"> Lecture 1< /a> 
 < im g src= "ppt.gif">
    < a href= "lecture2.ppt" > Lecture 2 < /a > 
  🛂 Tables - Mozilla Firefox
                                               View History
                                          Bookmarks Tools Help
    < im g src = "zip .gif" > 
                                C X A D fA -
   < a href= "lecture2-dem os.zi
                                Lecture 1
    Lecture 2 - Dem os< /a> 
                                Lecture 2
  Lecture 2 - Demos
Fiddler: Disabled | 0 errors / 0 warnings
```

Complete HTML Tables

- 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 data
 - <tfoot> denotes table footer but comes BEFORE the
 tag
 - <colgroup> and <col> define columns (most often used to set column widths)

Complete HTML Table: Example

```
• 
                   columns
• < colg roup>
• < colstyle= "w id th :100px" /> < /cob</p>
. < /colgroup>
                                    th

    header

• < thead>

      Column 1   Column 2  

• < /thead>
              footer
• < tfoot>

      Footer 1   Footer 2  

• < /tfoot>

    Last comes the body (data)

• 
   Cell 1.1  Cell 1.2 
   Cell 2 .1   Cell 2 .2  
• 
•
```

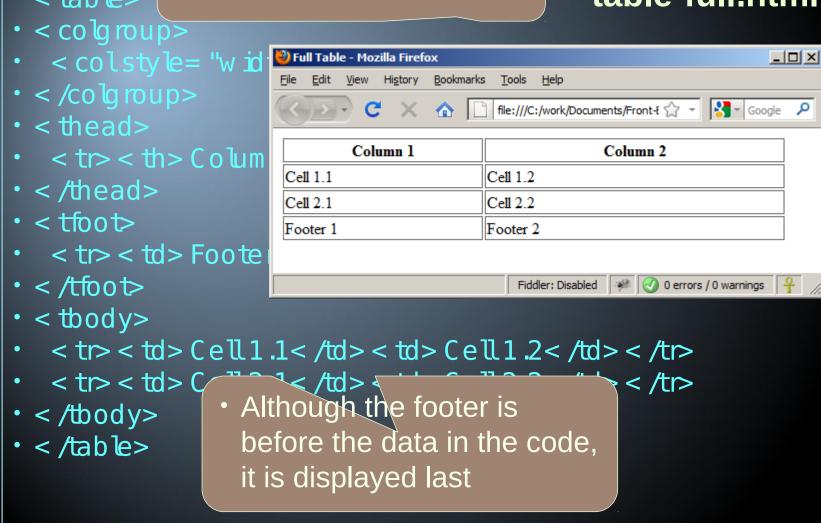
Internet Programming Complete HTML Table:

• By default, header text is

Example

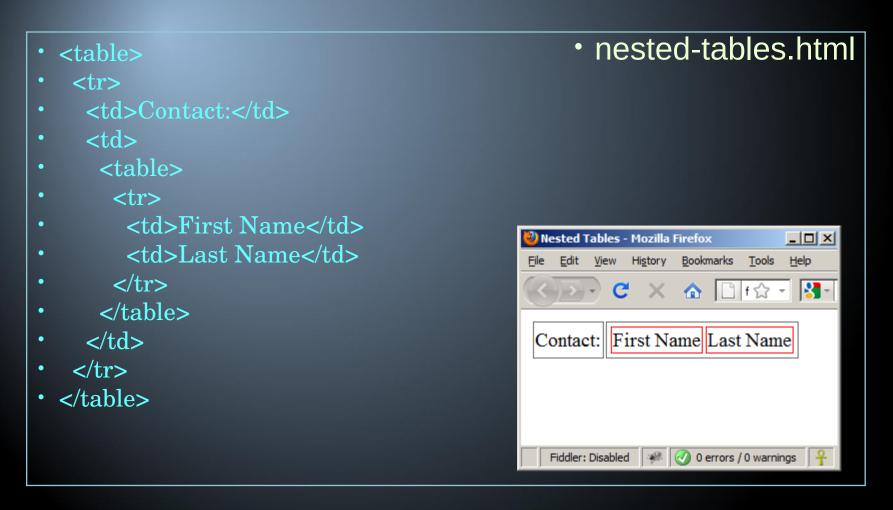
bold and centered. •

· table-full.html



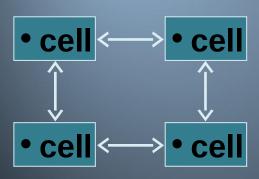
Nested Tables

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

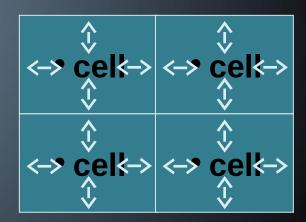


Cell Spacing and Padding

- Tables have two important attributes:
 - 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>
 First
 Second
<br/>br/>
 FirstSecond
 </body>
</html>
```

Cell Spacing and Padding – Example

table-cells.html

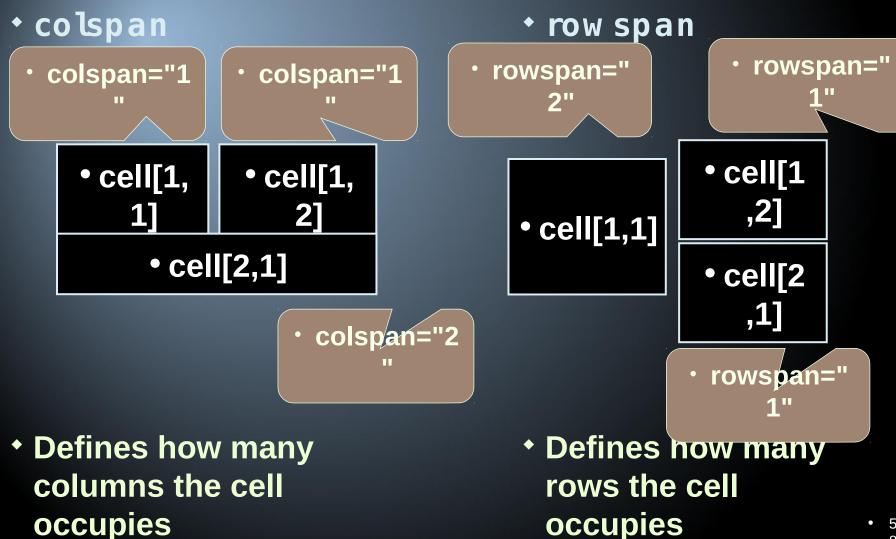
```
• < htm >
   < head> < title> Table Cells< /title> < /head>
  <body>
     First
   Second 
                                        🛂 Table Cells Properties - Mozilla Firefox
                                                                     <u>V</u>iew Hi<u>s</u>tory
                                                      Bookmarks
  < br/>
                                                  X ♠ ☐ file:// ☆ ▼ 🛂 ▼ Go 🔎
   < table cellspacing= "0" cellpadding
     First  Second<
                                        This table has cellspacing 15 and cellpadding 0
   </body>
 < /htm >
                                         First
                                              Second
                                        This table has cellspacing 0 and cellpadding 10
                                         First
                                              Second
                                              Fiddler: Disabled

Ø 0 errors / 0 warnings

                                        Done
```

Column and Row Span

Table cells have two important attributes:



Column and Row Span – Example

table-colspan-rowspan.html

```
Cell[1,1]
  <td colspan="2">Cell[2,1]
 <tr class="2">Cell[1,2]
  Cell[2,2]
  Cell[3,2]
 Cell[1,3]
  Cell[2,3]
```

5

table-colspan-rowspan.html

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

    Cell[1,1]

    Cell[2,1]

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

```
<!DOCTYPE html>
<html>
<head>
<title>HTML Table Caption</title>
</head>
<body>
<caption>This is the caption</caption>
row 1, column 1row 1, columnn
2
row 2, column 1row 2, columnn
2
</body>
</html>
```

- The caption tag will serve as a title or explanation for the table and it shows up at the top of the table.
- This tag is depracated in newer version of HTML/XHTML.





 Entering User Data from a Web Page





- HTML forms are used to pass data to a server.
- A basic form has three important parts:
 - The <form> tag
 - The form elements
 - And the submit button which sends the data on the server.
- An HTML form can contain input elements like text fields, checkboxes, radio-buttons, submit buttons.

HTML Forms

- Forms are the primary method for gathering data from site visitors
- Create a form block with
- Example:

```
• <form></form>
```

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

•

• </form>

HTML Forms

- HTML forms contain form elements.
- Form elements are different types of input elements, checkboxes, radio buttons, submit buttons, and more.

HTML Forms

- The <input> element is the most important form element.
- The <input> element has many variations, depending on the type attribute.

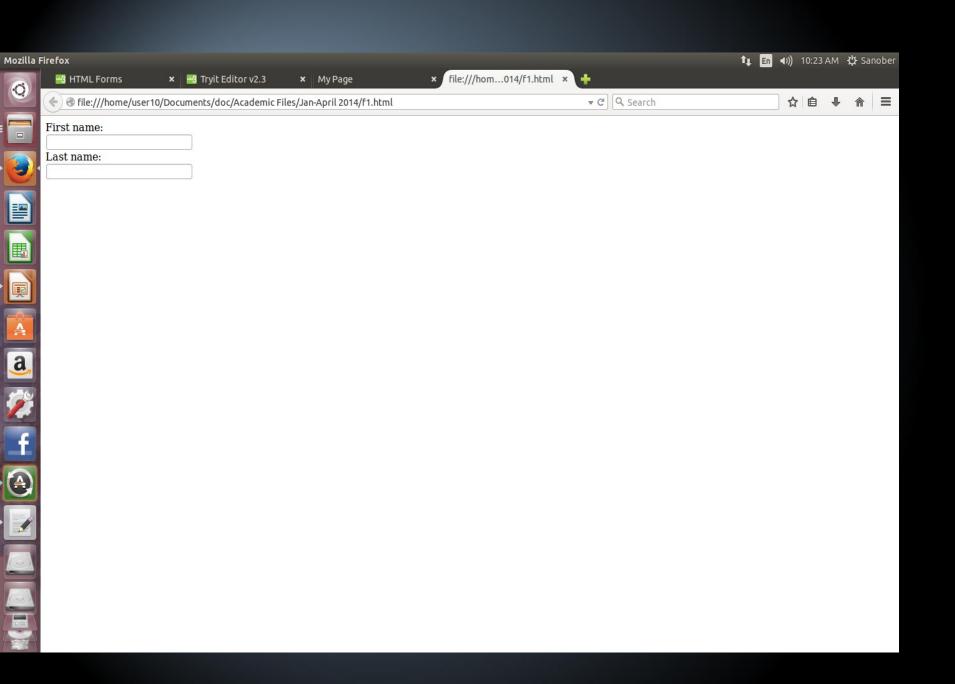
- Single-line text input fields:
- Multi-line textarea fields:
 - Often used by JavaScript code
 - <input type="text" name="FirstName" value="This is a text field" />
 - <textarea name="Comments">This is a multi-line text field</textarea>

- ! <!DOCTYPE html>
 ! <html>
 ! <body>
 ! <form>
- First name:

- <input type="text" name="firstname">
-

 <b
- Last name:

- <input type="text" name="lastname">
- </form>
- </body>
- </html>



- Password Field:
- <input type="password"> defines a password field:
 - <form>
 - Password: <input type="password"
 name="pwd">
 - </form>

- Radio Buttons:
- Allows user to select only one value from number of choices.
 - | <form>
 - <input type="radio" name="sex" value="male">Male

 - | <input type="radio" name="sex" value="female">Female
 - </form>

Form Input Controls

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

- <input type="checkbox" name="fruit" value="apple" />
- <input type="radio" name="title" value="Mr." />
- <input type="radio" name="city" value="A" />
- <input type="radio" name="city" value="B" />

- Checkbox:
- Allows a user to select ZERO or MORE options of a limited number of choices.

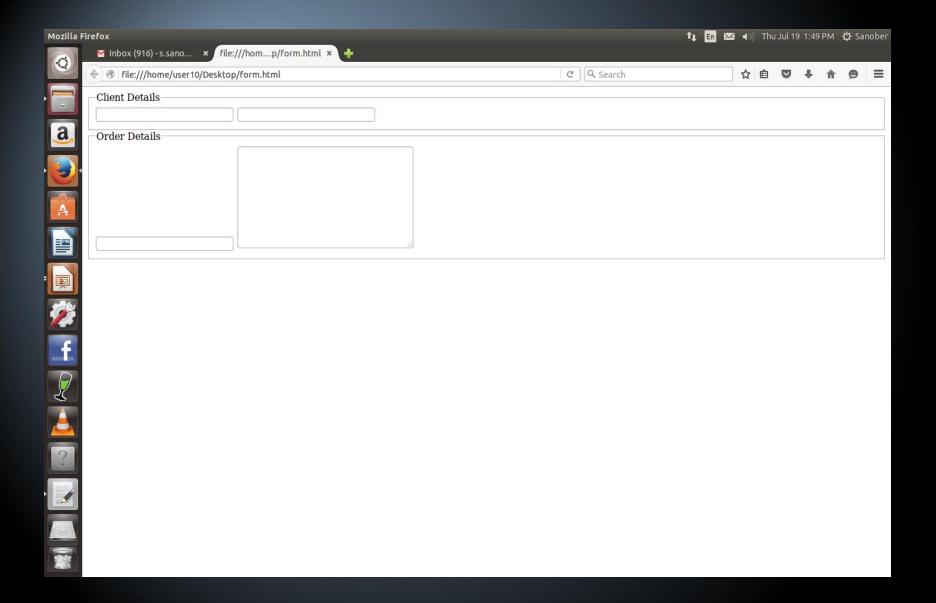
 - | <input type="checkbox" name="option1"
 | value="Milk"> Milk
| | value="Milk"> Milk<br | value
 - | <input type="checkbox" name="option2"
 | value="Butter" checked> Butter
| br>

 - 0
1
 - /form>

Fieldsets

- Fieldsets are used to enclose a group of related form fields:
- The <legend> is the fieldset's title.

```
<form method="post" action="form.aspx">
   <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" />
     <textarea cols="40" rows="10"
      id="Remarks"></texturea>
   </fieldset>
   form>
```



Other Form Controls

- Dropdown menus:
- The <select> element defines a drop-down list:
- Submit button:
 - <select name="gender">
 - <option value="Value 1" selected="selected">Male</option>
 - <option value="Value 2">Female</option>
 - <option value="Value 3">Other</option>
 - </select>

<input type="submit" name="submitBtn" value="Apply Now" />

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

<input type="button" value="click me" />

- Password input a text field which masks the entered text with * signs
- Multiple select field displays the list of items in multiple lines, instead of one

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

Other Form Controls

- File input a field used for uploading files
 - When used, it requires the form element to have a specific attribute:

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

```
<form enctype="multipart/form-data">
...
<input type="file" name="photo" />
...
</form>
```

Labels

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

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

HTML Input Attributes

- The value Attribute
 - The value attribute specifies the initial value for an input field:
 - First name:

 - | <input type="text" name="firstname" value="John">
 -

 - Last name:

 - | <input type="text" name="lastname">
 - </form>

The readonly Attribute

- The readonly attribute specifies that the input field is read only (cannot be changed):
- The readonly attribute does not need a value. It is the same as writing readonly="readonly".
- First name:

- <input type="text" name="firstname" value="John" readonly>
-

- Last name:

- <input type="text" name="lastname">
- </form>

The disabled Attribute

- ¹ The disabled attribute specifies that the input field is disabled.
- A disabled element is un-usable and un-clickable.
- Disabled elements will not be submitted.
- The disabled attribute does not need a value.

```
<form action="">
First name:<br>
<input type="text" name="firstname" value="John" disabled>
<br>
<br>
Last name:<br>
<input type="text" name="lastname">
</form>
```

The maxlength Attribute

- The maxlength attribute specifies the maximum allowed length for the input field:
- With a maxlength attribute, the input control will not accept more than the allowed number of characters.

```
| <form action="">
```

- First name:

- | <input type="text" name="firstname" maxlength="10">
-

- Last name:

- <input type="text" name="lastname">
- </form>

HTML Forms – Example

form.html

```
<form method="post" action="apply-now.php">
 <input name="subject" type="hidden" value="Class" />
 <fieldset><legend>Academic information</legend>
   <label for="degree">Degree</label>
   <select name="degree" id="degree">
    <option value="BA">Bachelor of Art</option>
    <option value="BS">Bachelor of Science
    <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" />
```

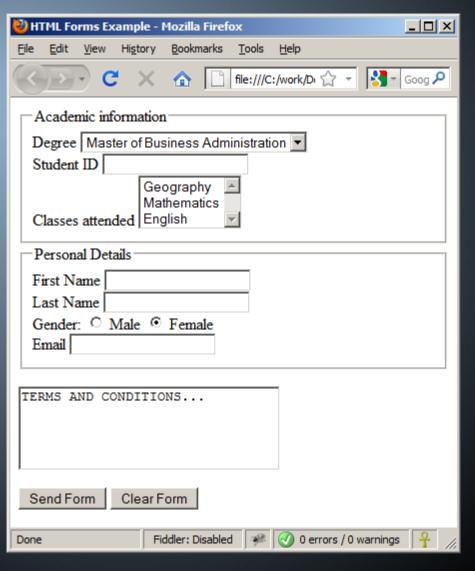
HTML Forms – Example

form.html (continued)

```
<br />
  Gender:
  <input name="gender" type="radio" id="gm" value="m" />
  <label for="gm">Male</label>
  <input name="gender" type="radio" id="gf" value="f" />
  <label for="gf">Female</label>
 <br />
  <label for="email">Email</label>
  <input type="text" name="email" id="email" />
</fieldset>
 <
  <textarea name="terms" cols="30" rows="4"
   readonly="readonly">TERMS AND CONDITIONS...</textarea>
 <a>>
  <input type="submit" name="submit" value="Send Form" />
  <input type="reset" value="Clear Form" />
</form>
```

HTML Forms – Example

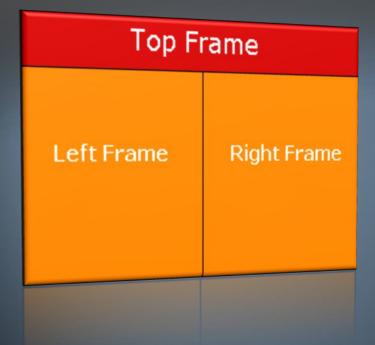
form.html (continued)

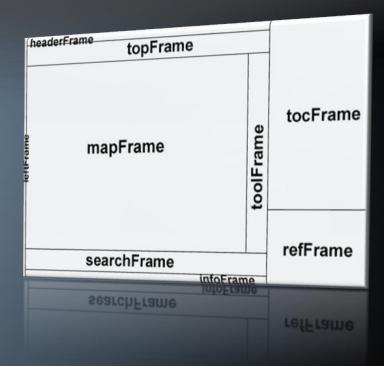


TabIndex

- 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" />





HTML Frames

• < fram eset> , < fram e> and < ifram e>

HTML Frames

- 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.

- We can create a frame by using the <frameset> tag.
- Inside <frameset> tag use <frame> tag with src as attribute.
- It takes HTML file as input value which we want to upload to that frame.
- We can create multiple <frame> tag inside <frameset> tag.
- Not supported in HTML 5.

```
! <!DOCTYPE html>
chtml>
cframeset cols="25%,50%,25%">
cframe src="frame1.htm">
cframe src="frame2.htm">
cframe src="frame3.htm">
cframe src="frame3.htm">
cframes>Sorry, your browser does not handle frames!
c/noframes>
c/frameset>
c/html>
```

HTML Frames – Demo

frames.html

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

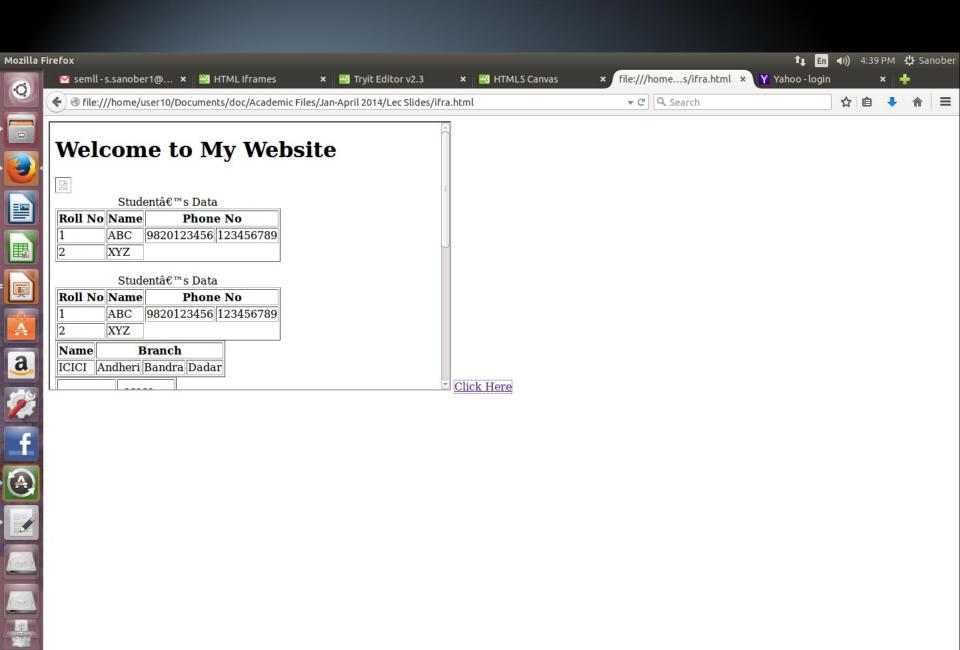
Inline Frames: < ifram e>

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

iframe-demo.html

• <iframe name="iframeGoogle" width="600" height="400" src="http://www.google.com" frameborder="yes" scrolling="yes"></iframe>

- <html>
- document
- | <iframe name="iframeGoogle" width="600" height="400"
 | src="style.html" frameborder="yes" scrolling="yes"></iframe>
- Click Here
- </body>
- </html>
- When we use frame tag then the current page constitutes of only frames whereas in iframe the current web page and the sub window (created by iframe) are treated like two separate entities.
- It just brings some other source to the current page.
- The inline frames are also known as floating frames.



Comments: <!-- --> **Tag**

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

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