

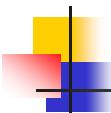
HTML (Hypertext Markup Language)

- 4
- Introduction to HTML
- Basic Tags
- Links
- Images
- Lists
- Tables
- Forms
- Frames
- CSS

Introduction

- HTML is not a programming language, it is a markup language.
- A markup language is a set of markup tags.
- HTML uses markup tags to describe web pages.
- HTML documents are text files made up of HTML elements.
- HTML elements are defined using HTML tags.

Introduction



- HTML is a language for describing web pages.
- HTML stands for Hyper Text Markup Language
- HTML is not a programming language, it is a markup language
- A markup language is a set of markup tags
- HTML uses markup tags to describe web pages

HTML Basics

HTML Tags

- HTML tags are used to mark-up HTML elements
- HTML tags are surrounded by the two characters
 - < and >
- The surrounding characters are called angle brackets
- HTML tags normally come in pairs like and
- The first tag in a pair is the start tag, the second tag is the end tag
- The text between the start and end tags is the element content
- HTML tags are not case sensitive, means the same as

HTML Basics

The HTML documents describe the web pages.

Let us consider a simple example. Type the program in a notepad/textpad and save the file with extension .html/.htm.

```
<html>
    <body>
        <h1> My First HTML Page </h1>
         I am waiting to start programming with HTML 
        <body>
        <html>
```

Important to note:

Tools needed to learn HTML.

- 1. An HTML editor/notepad (best suited for beginners)
- 2. For professional web developers editors like FrontPage, DreamWeaver.
- 3. You do not need a web server.
- 4. You do not need to have a web site
- 5. But definitely a browser Internet Explorer (IE) or Netscape Navigator(NN).

HTML Basic Tags

```
<html>
<head>
<title>Title of the document</title>
</head>
<body>
Wel Come to RCU
</body>
</html>
```

Example

```
<html>
```

```
<body>
```

- This is a paragraph.
- <body>
- <html>

HTML Body

- <h1>This is a heading</h1>
- <hr>
- Document description
 description
here.....
- <h6> document ends <h6>

Basic Tags

Tag

Defines the Paragraph

Inserts a single line break

<h1> to <h6>: Defines HTML headings

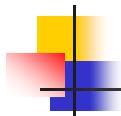
<hr> <hr> Defines a horizontal lines

<!--> Defines a comment

HTML Formatting Tags

- <i> : Defines a part of text in an alternate voice or mood
- <small> : Defines smaller text
- : Defines important text
- <Sub>: Defines subscripted text
- <Sup>: Defines superscripted text
 - <mark>: Defines marked/highlighted

HTML Links



- Link to an absolute URL:
 - If you get spam, contact Microsof t to report the problem.
- Link to a relative URL:See these references
 concerning our fine products.

HTML Links

- Link to a section within a URL:Amazon provided a <AHREF="www.amazon.com/#reference"> reference for our company.
- HTML Images
- •

HTML Lists

- 4
 - Ordered List
 - 1. Coffee
 - 2. Milk
 - CoffeeMilk

HTML Lists

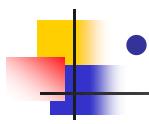
- Unordered LIst
- Coffee
- Milk

```
    Coffee
    Milk
```

HTML Tables

```
Header1: Row1, col1, Row1, col2
Header 2: Row2, col1, Row2, Col2
row 1, cell 1
row 1, cell 2
row 2, cell 1
row 2, cell 2
```

HTML Forms



HTML Forms are required when you want to collect some data from the site visitor.

- For example registration information: name, email address, credit card, etc.
- A form will take input from the site visitor and then will post your back-end application such as CGI, ASP Script or PHP script etc.
- <form action="back-end script" method="posting method">
 form elements like input, textarea etc.
- </form>

FORMS

- HTML forms are used to pass data to a server.
- An HTML form can contain input elements like text fields, checkboxes, radio-buttons, submit buttons and more. A form can also contain select lists, textarea, fieldset, legend, and label elements.
- The <form> tag is used to create an HTML form:
- <form>
 - input elements
 - </form>

HTML Forms - The Input Element

HTML Forms - The Input Element

- The most important form element is the <input> element.
- The <input> element is used to select user information.
- An <input> element can vary in many ways, depending on the type attribute. An <input> element can be of type text field, checkbox, password, radio button, submit button, and more.

Text Fields

- <input type="text"> defines a one-line input field that a user can enter text into:
- <form>
 First name: <input type="text" name="firstname">

 Last name: <input type="text" name="lastname"></form>

HTML Forms

Password Field

- <input type="password"> defines a password field:
- <form>

Password: <input type="password" name="pwd"> </form>

Radio Buttons

- <input type="radio"> defines a radio button. Radio buttons let a user select ONLY ONE of a limited number of choices:
- <form>
 - <input type="radio" name="sex" value="male">Male

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

HTML FORMS

Checkboxes

<input type="checkbox"> defines a checkbox. Checkboxes let a user select ZERO or MORE options of a limited number of choices.

```
<form>
<input type="checkbox" name="vehicle" value="Bike">I have a
bike<br>
<input type="checkbox" name="vehicle" value="Car">I have a car
</form>
```

HTML Forms

Submit Button

- <input type="submit"> defines a submit button.
- A submit button is used to send form data to a server. The data is sent to the page specified in the form's action attribute. The file defined in the action attribute usually does something with the received input:
- <form name="input" action="demo_form_action.asp"
 method="get">
 Username: <input type="text" name="user">
 <input type="submit" value="Submit">
 </form>

HTML Frames



Frames, allow you to display more than one HTML document in the same browser window.

```
<frameset cols="25%,75%">
  <frame src="frame_a.htm" />
  <frame src="frame_b.htm" />
  </frameset>
```

Cascading Style Sheets

- CSS stands for Cascading Style Sheets
- Styles define how to display HTML elements
- Styles were added to HTML 4.0 to solve a problem
- External Style Sheets are stored in CSS files

HTML Style Example - Background Color

```
<!DOCTYPE html>
<html>
```

```
<br/>
<body style="background-color:yellow;"><br/>
<h2 style="background-color:red;">This is a heading</h2><br/>
This is a paragraph.</body></html>
```

HTML Style Example - Font, Color and Size

</html>

HTML Style Example - Text Alignment

```
<!DOCTYPE html>
<html>
<body>
<h1 style="text-align:center;">Center-aligned
heading</h1>
This is a paragraph.
</body>
</html>
```

CSS Syntax

```
Selector
CSS Syntax
Declaration
color:red;
text-align:center;
property value
```

Three Ways to Insert CSS

External style sheet

```
<head>
 <link rel="stylesheet" type="text/css" href="mystyle.css">
 </head>
Internal style sheet
 <head>
 <style>
 hr {color:cyan;}
 body {background-image:url("images/back40.gif");}
 </style>
 </head>
```

Way to insert CSS

Inline style

```
left:20px;">This is a
paragraph.
```

CSS Id and Class

Id selector

The id selector is used to specify a style for a single, unique element. The style rule below will be applied to the lement with

```
id="para1":
• #para1
{
  text-align:center;
  color:red;
}
```

CSS Id and Class

Class selector

The class selector is used to specify a style for a group of elements.

- all HTML elements with class="center" will be center-aligned:
- .center {text-align:center;}
- p.center {text-align:center;}

CSS Background

```
body
 background-color: #b0c4de;
 background-image:url('img_tree.png');
 background-repeat:repeat-x;
```

CSS Background

- background-image: Sets image
- background-color: Sets background color
- Background-repeat: How a image will be repeated
- Background-position: Starting pos of image
- Background-attachment: Whether image is fixed or scrolls with rest of the page

CSS Text

```
ext Color
h1 {color:blue;}
Text Alignment
h1 {text-align:center;}
Text Decoration
h1 {text-decoration:overline;}
 h2 {text-decoration:line-through;}
Text Transformation
p.uppercase {text-transform:uppercase;}
p.lowercase {text-transform:lowercase;}
p.capitalize {text-transform:capitalize;}
```

CSS Font

```
p{font-family:"Times New Roman", Times, serif;}
Font Style
p.italic {font-style:italic;}
Font Size
p {font-size:14px;}
p {font-size:0.875em;} /* 14px/16=0.875em */
body {font-size:100%;}
```

CSS Lists

- The CSS list properties allow you to:
- Set different list item markers for ordered lists
- Set different list item markers for unordered lists
- Set an image as the list item marker

CSS Lists

```
ul.a {list-style-type: circle;}
ul.b {list-style-type: square;}
ol.c {list-style-type: upper-roman;}
ol.d {list-style-type: lower-alpha;}
```

CSS Tables

```
Table Borders
table, th, td
border: 1px solid black;
border-collapse:collapse;
width:100%;
Table Color
table, td, th
  border:1px solid green;
```

CSS Tables

```
Table Color
table, td, th
   border:1px solid green;
   th
   background-color:green;
   color:white;
```

Questions & Answers



