



# HTML FUNDAMENTALS Instructor: DieuNT1

#### **Table of contents**



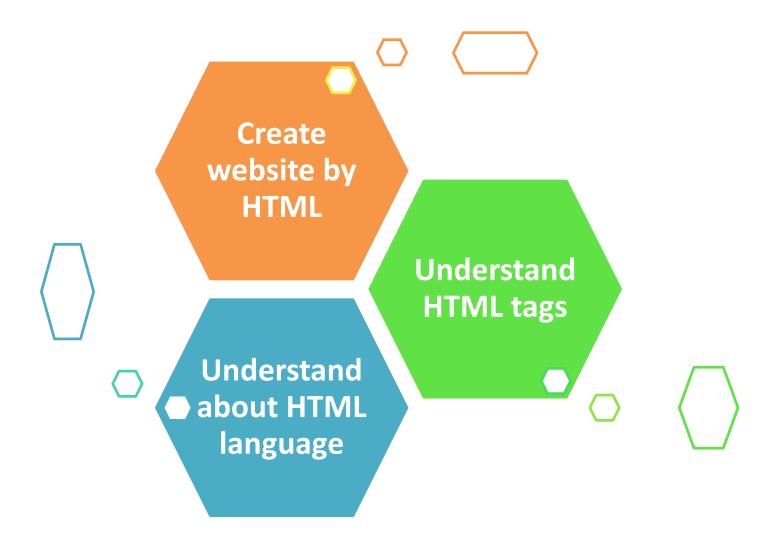


- Introduction to HTML
- Basic HTML Tags
- Using Table
- Using Forms

# **Learning Goals**











Section 1

# HTML INTRODUCTION SYNTAX

#### **HTML Introduction**

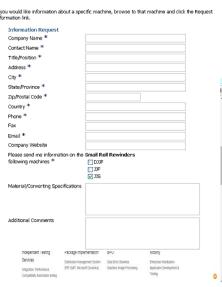




- HTML stands for Hyper Text Markup Language.
- HTML is a markup language for describing web documents

(web pages).

- ✓ A markup language is a set of markup tags.
- ✓ HTML documents are described by **HTML tags.**
- ✓ Each HTML tag **describes** different document content.
- Using HTML tags and elements, we can:
  - ✓ Control the **appearance** of the page and the content.
  - ✓ **Publish** online documents and **retrieve** online information using the links inserted in the HTML document.
  - ✓ Create on-line forms. These forms can be used to collect information about the user, conduct transactions, and so on

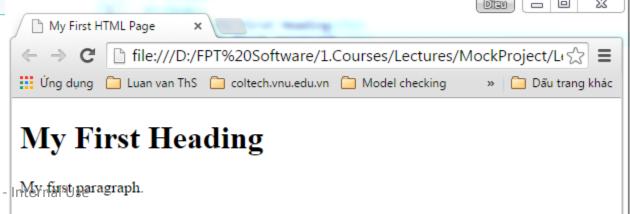


# **HTML Page Format**





```
<!DOCTYPE HTML>
<html>
<head>
<title>My First HTML Page</title>
</head>
<body>
  <h1>My First Heading</h1>
  My first paragraph.
</body>
</html>
```

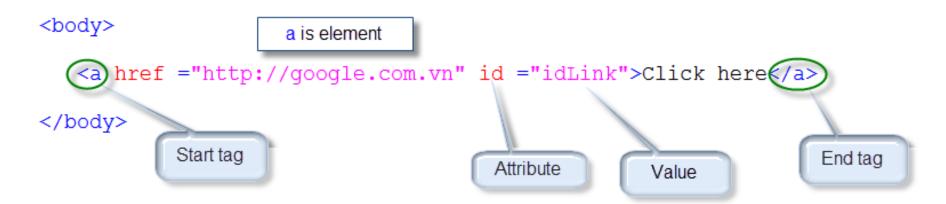


# Tags in HTML





- Each tag in HTML start with start tag and finish by close tag
- HTML consist of:
  - ✓ **Element** identifies the tag.
  - ✓ Attribute describes the tag.
  - √ Value the content that is assigned to the attribute.



#### **HTML Elements**





• An HTML element is everything from the start tag to the end tag:

Start tag *	Element content	End tag *
	This is a paragraph	
<a href="default.htm"></a>	This is a link	

p, a, br are elements

#### **HTML Comments**





 Comment tags are used to insert comments in the HTML source code.

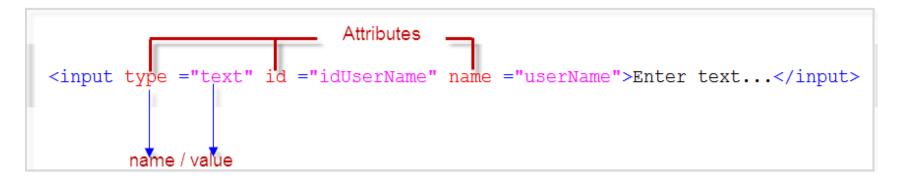
```
<!-- Write your comments here -->
```

#### **HTML Attributes**





- Attributes provide additional information about an element.
- Attributes are always specified in the start tag
- Attributes come in name/value pairs like: name="value"



Attribute	Value	Description
class	classname	Specifies a classname for an element
id	id	Specifies a unique id for an element
style	style_definition	Specifies an inline style for an element
title	tooltip_text	Specifies extra information about an element (displayed as a tool tip)

#### HTML Attributes sample 1





```
Dieu - -
                                                                                  \Sigma S
<!DOCTYPE html>
                                               Header Examples
<html>
                                                     header_example.html
                                                                               ;52;
<head>
<style type="text/css">
                                            Header 1
    h1.intro {
    color: blue;
                                            A paragraph.
                                            Note that this is an important paragraph. :)
    p.important {
    color: red;
</style>
</head>
<body>
    <h1 class="intro">Header 1</h1>
    A paragraph.
    Note that this is an important paragraph. :)
</body>
</html>
```

## HTML Attributes sample 2





```
<!DOCTYPE html>
<html>
<head>
<script type="text/javascript">
function displayResult() {
  document.getElementById("myHeader").innerHTML = "Have a nice day!";
</script>
</head>
<body>
    <h1 id="myHeader">Hello World!</h1>
    <button onclick="displayResult()">Change text</button>
</body>
                                                            Html Page Example *
                                             Html Page Example
</html>
                                                            ← → C []/htmlpage.html
                                            ← → C | /htmlpage.h
                                            Hello World!
                                                           Have a nice day!
                                                            Change text
                                            Change text
                                            Before
                                                            After
 ©FPT SOFTWARE - Corporate Training Center - Internal Use
```





Section 2

#### **HTML BASIC TAGS**

### **Html Basic Tags**





- Heading
- Paragraph
  - ✓ Preformatted
- Hyperlink
- Image tag
- Order list
- Iframes
- Physical Formatting

# Headings tag





Are used to define HTML headings, includes six levels of document headings:

```
<H1 ...> text H1 </H1> -- largest of the six <H2 ...> text H2</H2> <H3 ...> text H3</H3> <H4 ...> text H4</H4> <H5 ...> text H5</H5> <H6 ...> text H6</H6> -- smallest of the six
```

```
<HTML>
                                                                                               (m) (0) - 13
    <HEAD>
                                                      Document Headings
      <TITLE>Document Headings</TITLE>
                                                                                               ☆ 👺
                                                      ← → C ff D/heading example.html
    </HEAD>
                                                      Samples of the six heading types:
    <BODY>
         Samples of the six heading types:
        <H1>Level-1 (H1)</H1>
                                                      Level-1 (H1)
        <H2 ALIGN="center">Level-2 (H2)</H2>
         <H3><U>Level-3 (H3)</U></H3>
        <H4 ALIGN="right">Level-4 (H4)</H4>
                                                                     Level-2 (H2)
         <H5>Level-5 (H5)</H5>
         <H6>Level-6 (H6)</H6>
                                                      Level-3 (H3)
    </BODY>
</HTML>
                                                                                          Level-4 (H4)
      ALIGN="position" with value: left (default),
                                                      Level-5 (H5)
      center or right
                                                      Level-6 (H6)
```

#### **HTML Horizontal Rules**





- The <hr> tag defines a thematic<sup>[chủ đề]</sup> break in an HTML page,
   and is most often displayed as a horizontal rule.
- The <hr>> element is used to separate content (or define a change) in an HTML page:

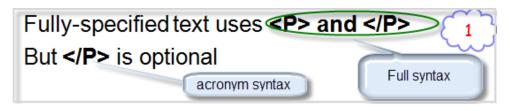


# <P> Paragraph tag (1/2)





- HTML documents are divided into paragraphs.
  - ✓ defines a paragraph
  - ✓ Add align ="position" (left, center, right)
  - ✓ Multiple <P>'s do not create blank lines



```
<HTML>
                                                                                      - 0 X
    <HEAD>
                                                         Tag Examples
      <TITLE></TITLE>
                                                        Q ☆ 🚱 😑
    </HEAD>
    <BODY>
                                                        Here is some text
        <P>Here is some text </P>
        <P ALIGN="center"> Centered text </P>
        <P><P><P>
                                                                     Centered text
       <P ALIGN="right"> Right-justified text
        <! Note: no closing /P tag is not a problem>
                                                                             Right-justified text
    </BODY>
</HTML>
                                                        at.jpg
                                                                               Show all downloads... ×
```

# <P> Paragraph tag (2/2)





- The HTML Element
  - √ The HTML element defines preformatted text.
  - ✓ The text inside a element is displayed in a **fixed-width** font (usually Courier), and it preserves both **spaces** and **line breaks**.
- Don't Forget the End Tag
- HTML Line Breaks: the Poem<sup>[thơ]</sup> Problem

```
<body>
                                        not using <PRE> tag
                  if (a < b) {
                         a++;
                         b = c * d;
                  else {
                         b = (b-1)/2;
              </body>
                                              _ _ _ X
                 Noname1.html
                             ☐ file:///C:/Users/☆ 🔠
                ← → C M
                if (a < b) \{ a++; b = c * d; \} else \{ a--; b = (b-1)/2; \}
©FPT SOFTWARE - Corporate Training Center - Internal Use
```

```
<PRE>
     if (a < b) {
                     Using <PRE> tag
           a++;
           b = c * d;
     else {
           a--;
           b = (b-1)/2;
</PRE>
                         Noname1.html
               🗋 file:///C:/ኒ 😭 🔠
  if (a < b) {
  else
      b = (b-1)/2;
```

# HyperLinks <a> tag





- Is used to link from one page to another.
- Syntax: <A HREF ="URL">Content> </A>

#### Link to an absolute URL:

1

If you get spam, contact <A HREF="htttp:www.microsoft.com"> Microsoft </A> to report the problem.

#### Link to a relative URL:

2

See these <A HREF="#references"> references </A> concerning our fine products.

#### Link to a section within a URL:

3

Amazon provided a <A HREF="www.amazon.com/#reference"> reference for our company. </A>

#### **Hyperlink Examples**





```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"

"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Hyperlink Example</title>
</head>
<body>
<a href="https://www.oracle.com/java/index.html">Java Oracle</a>
</body>
</html>
```



## Hyperlink Examples - local links







# Hyperlink Examples - Image as Link



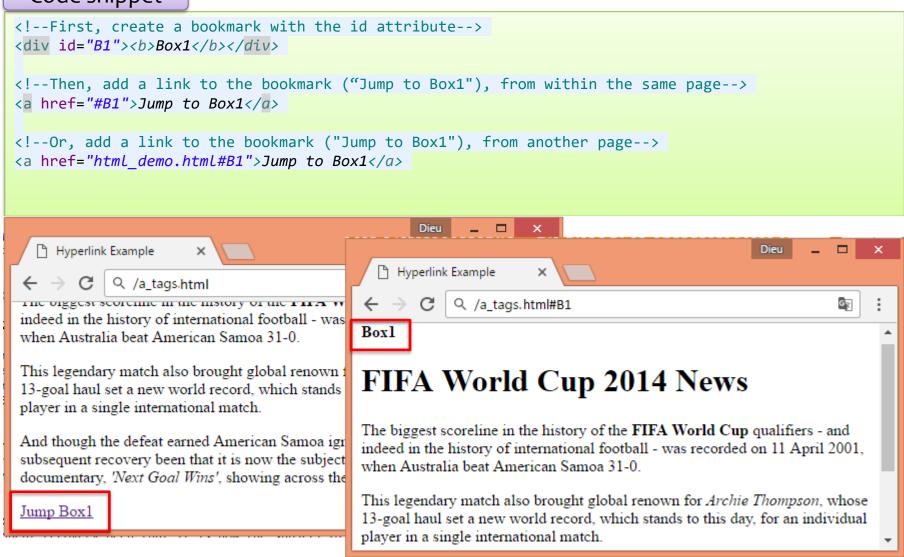




#### Hyperlink Examples - Create a Bookmark







# Images tag





- To display image on a web page.
- Syntax:

```
<img src="url" alt="some_text" style="width:width;height:height;"
align="position">
```

#### In which:

- The **src** attribute specifies the URL (web address) of the image;
- The alt attribute provides an alternate text for an image;
- The **style** attribute to specify the width and height of an image;
- Images scale to fit the space allowed.

Align=position	Image/Text Placement
Left	Image on left edge; text flows to right of image
Right	Image on right edge; text flows to left
Тор	Image is left; words align with top of image
Bottom	Image is left; words align with bottom of image
Middle	Words align with middle of image

# Images tag Example





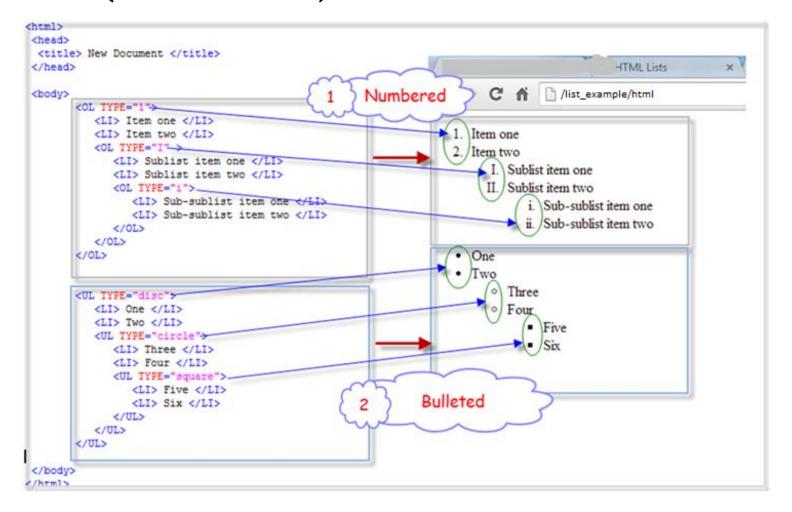


#### HTML Lists (1/2)





 Use to order list of items by Numbered (Ordered List) or Bulleted (Unordered List):



#### HTML Lists (2/2)





#### Unordered HTML Lists - The Style Attribute

Style	Description
list-style-type:disc	The list items will be marked with bullets (default)
list-style-type:circle	The list items will be marked with circles
list-style-type:square	The list ietms will be marked with squares
list-style-type:none	The list items will not be marked

#### Ordered HTML Lists - The Type Attribute

Style	Description
list-style-type:decimal	The list items will be numbered with numbers (default)
list-style-type:upper-alpha	The list items will be numbered with uppercase letters
list-style-type:lower-alpha	The list items will be numbered with lowercase letters
list-style-type:upper-roman	The list items will be numbered with uppercase roman numbers
list-style-type:lower-roman	The list items will be numbered with lowercase roman numbers

#### **HTML Iframes**

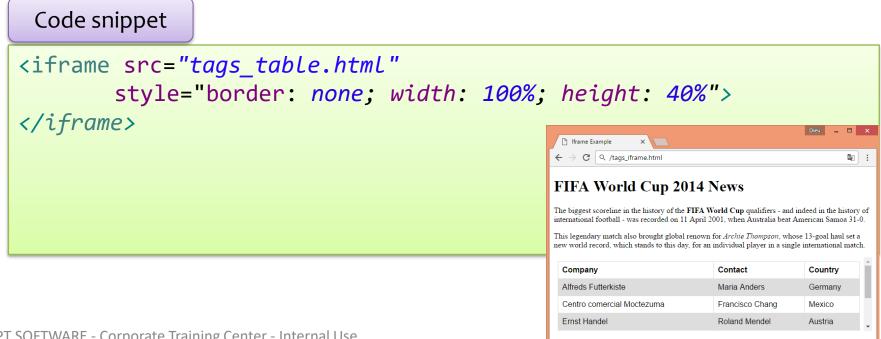




- An iframe is used to display a web page within a web page.
- **Iframe Syntax:**

```
<iframe src="url"</pre>
   style="border: border; width: width; height: height">
</iframe>
```

#### **Example:**

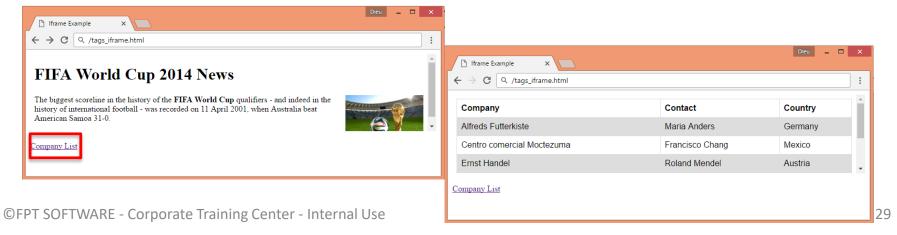


# HTML Iframes - Target for a Link





- An iframe can be used as the target frame for a link.
- The target attribute of the link must refer to the name attribute of the iframe:



# HTML div Tag





- The <div> tag defines a division or a section in an HTML document.
- The <div> tag is used to group block-elements to format them with CSS.
- Tip: The <div> element is very often used together with CSS, to layout a web page.

```
<div style="color:#0000FF">
  <h3>This is a heading</h3>
  This is a paragraph.
</div>
```

#### **HTML File Paths**





- A file path describes the location of a file in a web site's folder structure.
- File paths are used when linking to external files like:
  - √ Web pages
  - ✓ Images
  - ✓ Style sheets
  - ✓ JavaScripts

Path	Description
<img src="picture.jpg"/>	picture.jpg is located in the same folder as the current page
<img src="images/picture.jpg"/>	picture.jpg is located in the images folder located in the current folder
<img src="/images/picture.jpg"/>	picture.jpg is located in the images folder located at the root of the current web
<img src="/picture.jpg"/>	picture.jpg is located in the folder one level up from the current folder

#### Physical Formatting Tags (1/2)





HTML code	Output
This is <b>bold</b>	This is <b>bold</b>
This is <big>big font</big>	This is <b>big font</b>
This is <i>italic</i>	This is italic
Was <s>\$50</s> ; now \$40	Was <del>\$50</del> ; now \$40
This is <small>small</small>	This is small
H <sub>2</sub> 0	H <sub>2</sub> O
May 5 <sup>th</sup> 2005	May 5 <sup>th</sup> 2005
<tt>fixed-width font</tt>	fixed-width font
This is <u>underlined</u>	This is <u>underlined</u>

#### Physical Formatting Tags (2/2)





HTML code	Output
<pre><cite>The Scream</cite> by Edward</pre>	The Scream by Edward
Munch. Painted in 1893.	Munch. Painted in 1893.
< code > y = m * x + b < / code >	y = m * x + b
<del>Deleted</del> text	Deleted text
<dfn>definition</dfn> text	definition text
This is <em> emphasized </em> .	This is emphasized .
<ins>inserted</ins> text	<u>inserted</u> text
<kbd>code</kbd> sample	code <b>sample</b>
<samp>code</samp> sample	code <b>sample</b>
This is <strong>strong</strong> .	This is <b>strong.</b>
<var>program</var> variable	program variable

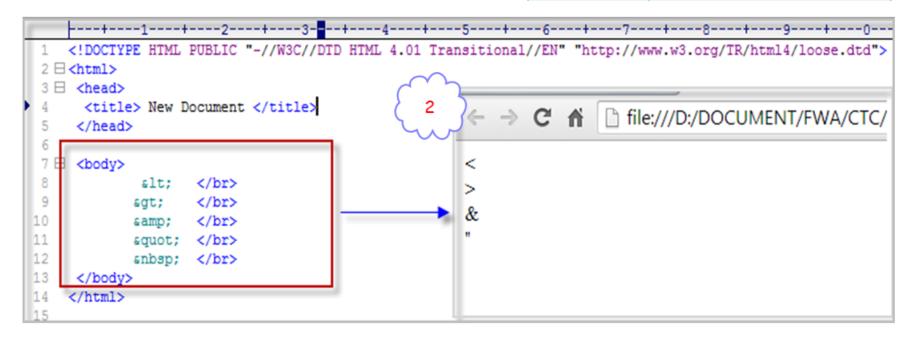
# **Special Characters**





Help for HTML recognizes and displays special

Character	Use
<	<
>	>
&	&
11	"
Space	



#### **Practical time**



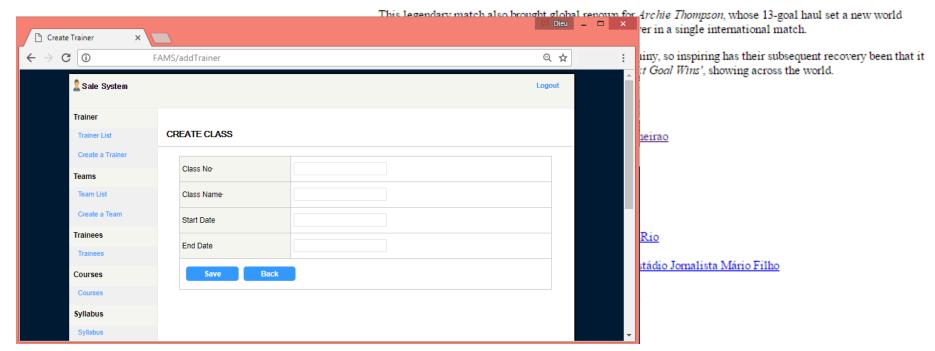


- In this exercise you will create a simple HTML page having title, heading, paragraph, em, strong, list, images tags.
- On completion, the page will look like following.

#### This is a demo image

#### FIFA World Cup 2014 News

The biggest scoreline in the history of the FIFA World Cup qualifiers - and indeed in the history of international football - was recorded on 11 April 2001, when Australia beat American Samoa 31-0.







Section 3

### **USING TABLE**

## **HTML Tables**





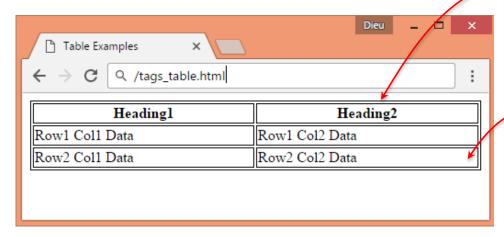
 To draw table on web page, includes tags bellow here:

✓ **<TABLE>** table tag

✓ **<TH>** table column header

✓ **<TR>** table row

✓ **<TD>** table data element



```
<!DOCTYPE html
<html>
<head>
<style type="text/css">
table, th, td {
    border: 1px solid black;
}
</style>
</head>
<body>
Heading1
        Heading2
    Row1 Col1 Data
        Row1 Col2 Data
    >
        Row2 Col1 Data
        ≺td>Row2 Col2 Data
    </body>
</html>
```

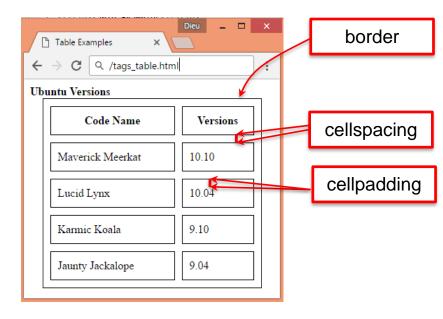
## Element Attributes





- align="position": left, center, right for table.
- border="number": width in pixels of border (including any cell spacing, default o).
- cellspacing="number": spacing in pixels between cells, default about 3
- cellpadding="number": space in pixels between cell border and table element, default about 1.
- width, height="number[%]": width or height in pixels or percentage of page/frame width.

#### Code snippet

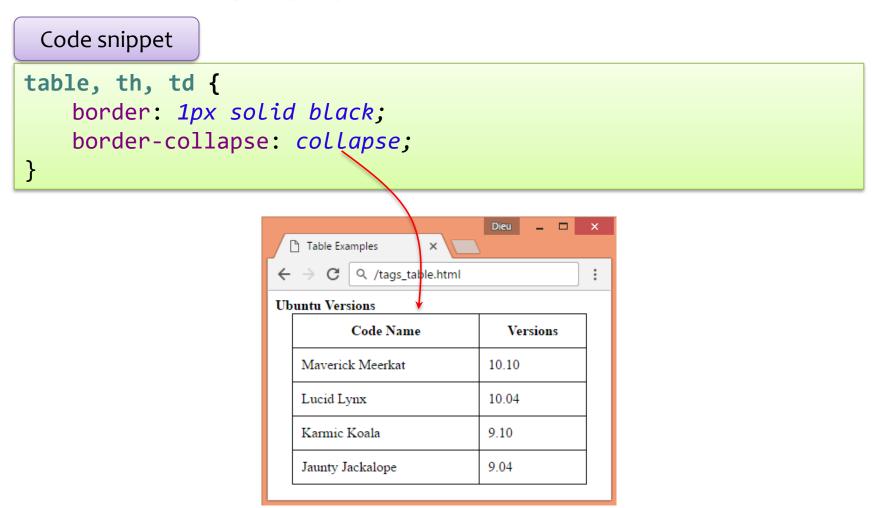


## **HTML Table - Collapsed Borders**





If you want the borders to collapse into one border, add the CSS border-collapse property:



# , Attributes





#### <TR> Attributes:

- ✓ align-- left, center, right
- ✓ valign-- top, middle, bottom
- ✓ bgcolor-- background color

#### <TD> Attributes:

- ✓ colspan: how many columns this cell occupies
- ✓ rowspan how many rows this cell occupies
- padding -- the space between the cell content and its horders

```
<b>Ubuntu Versions</b>
>
   Code Name
   Versions
   Notes
Maverick Meerkat
   10.10
   <span style="color: red">rowspan</span>
   Table Examples
C Q /tags_table.html
>
   Lucid Lynx
                                  Ubuntu Versions
   10.04
                                      Code Name
                                               Versions
                                                     Notes
Maverick Meerkat
                                               10.10
   rowspan
      <span style="color: red">colspan</span>
                                              10.04
                                    Lucid Lynx
   colspan
```





Section 4

## **USING FORMS**

## **Introduction to Forms**

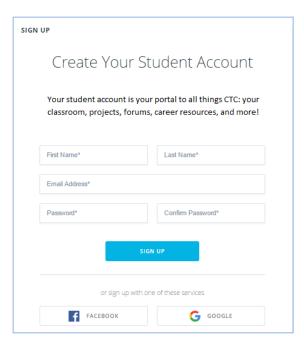




#### Uses of Forms

- ✓ Collecting names, addresses, telephone numbers, e-mail addresses, and other information to register users for a service or event
- ✓ Gathering information for the purchase of an item.
- ✓ For example, if we want to purchase a book over the Internet, we would be required to fill in our name, mailing address, mode of payment, and so on

## A Sample Form:



# **Using Forms**





#### The FORM element

```
<form> ... </form>
```

#### Form Attribute

✓ **accept:** The accept attribute specifies the types of files that the server accepts (that can be submitted through a file upload).

```
<form action="form_action.asp" accept="image/gif,image/jpeg"></form>
```

- ✓ action: defines the action to be performed when the form is submitted.
- ✓ method: The method attribute specifies the HTTP method (GET or POST) to be used when submitting the forms:

```
<form action="action_page.php?firstname=Mickey&lastname=Mouse"
    method="get">
    <form action="action_page.php" method="post">
```

✓ **name:** form name.

## **HTML Input Element Attribute**





#### The INPUT Element

- ✓ TYPE (button, checkbox, color, date, datetime, datetime, local, email, file, hidden, image, month, number, password, radio, range, reset, search, submit, tel, text, time, url, week)
- ✓ NAME:
- **✓ VALUE**
- **✓** SIZE
- **✓** MAXLENGTH
- ✓ CHECKED: Specifies that an <input> element should be preselected when the page loads (for type="checkbox" or type="radio").
- ✓ SRC: Specifies the URL of the image to use as a submit button (only for type="image").

# Input –Type Attribute





- TEXT [ Default ]
- CHECKBOX
- RADIO
- SUBMIT
- RESET
- IMAGE
- BUTTON

# Other Input Elements (1/2)





#### The TextArea Element

- √ cols
- √ rows
- √ Size
- √ type
- ✓ Value

### The BUTTON Element

- √ name
- ✓ value
- √ type

# Other Input Elements (2/2)





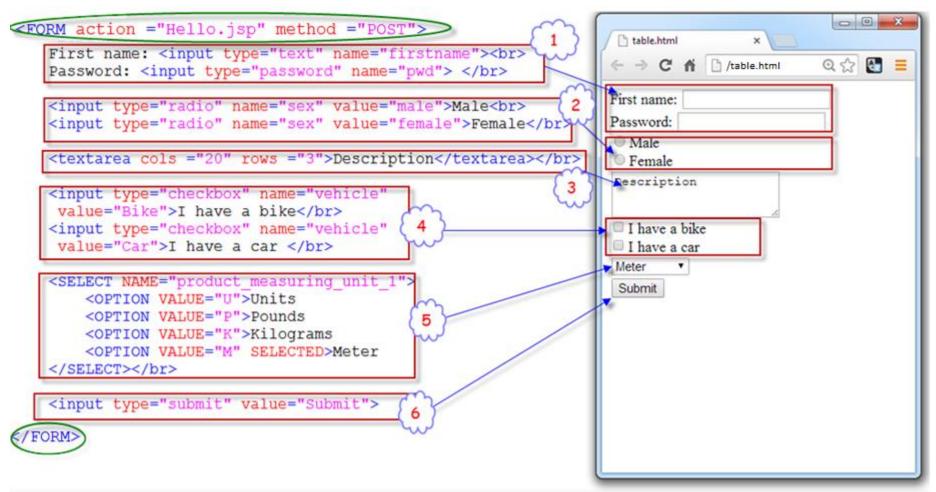
- The SELECT Element
  - ✓ Name: Defines a name for the drop-down list
  - ✓ **Size**: Defines the number of visible options in a drop-down list
  - ✓ Multiple: Specifies that multiple options can be selected at once
- The LABEL Element

## **HTML Form**





- Allows a user to enter data that is sent to a server for processing.
- Contain: text fields, textarea, checkboxes, radio-buttons, submit buttons and more...

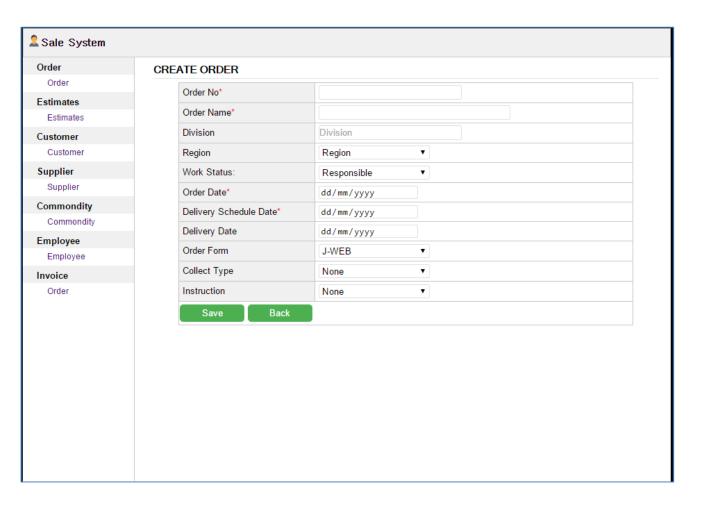


## **Practical time**





- In this exercise you will create a simple HTML form
- On completion, the page will look like following:



# Summary





- Introduction to HTML
- HTML syntax
- Basic HTML Tags (Heading, Paragraph, Preformatted, Hyperlink, Image tag, Order list, Iframe, Div)
- Using Table
- Using Forms
  - ✓ TEXT [ Default ]
  - √ CHECKBOX
  - ✓ RADIO
  - ✓ SUBMIT
  - ✓ RESET
  - ✓ IMAGE
  - ✓ BUTTON





# Thank you

