### **XHTML 1.0 Strict Reference Manual**

### **Declarations**

<xml></xml>	Defines the version of xml being used in the document. Example:
	<pre><?xml version="1.0" encoding="UTF-8" standalone="no" ?></pre>
	Note: we will always use this statement in this course.
<doctype></doctype>	Points to a specific DTD (document type definition) to be used
	by the document.
	Example:
DOCTYP</td <td>E html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"</td>	E html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www	.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
	Note: except for a few of the early examples, we will always use
	this doctype statement.

### **Core Attributes**

Core attributes are common attributes found in most XHTML elements. The elements <br/>
<br

Attribute	Description
class	Indicates the class or classes to which a particular element
	belongs.
id	Specifies a unique identifier to be associated with an element.
style	Specifies an inline style for the element.
title	Supplies text that is often rendered as a tooltip when the mouse
	is over the element.

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### <a>

The  $\langle a \rangle$  element is used to specify an anchor within your document. You can use an anchor to link to another document or to a shortcut within the same document.

Required attributes: None

**Optional attributes:** 

- href: specifies the URL that you wish the browser to open when the user clicks on the link. This is the most commonly used attribute for the anchor tag.
- rel: Specifies the relationship between the current document and the target URL. Possible values include alternate, stylesheet, start, next, prev, contents, index, glossary, copyright, chapter, section, subsections, appendix, help, and bookmark. The stylesheet value will be commonly used.

### Examples:

#### absolute link

```
<a href="http://www.cnn.com"> click here for news </a>
```

#### relative link

<a href="home.html"> Home Page </a>

### <blockquote>

The <blockquote> element specifies a long quotation. Typically, a blockquote renders in a browser by placing white space on either side of the text (both a left and right indent is used).

Required attributes: None

**Optional attributes:** 

cite: if the quote is from an Internet source, a URL, will point to where the quote is from.

Examples:

<blockquote>
 Four score and seven years ago our fathers
 brought forth on this....

 </blockquote>

```
<blockquote
    cite="http://en.wikipedia.org/wiki/Gettysburg_A
    ddress">
     Four score and seven years ago, our fathers
    brought forth on this....

</blockquote>
```

### <body>

The  $\langle body \rangle$  element defines the document's body. It contains all the content for the document.

Required attributes: None

Optional attributes: None

Example:

```
<body>
<!-- content goes here -->
</body>
```

# <br />

The <br /> element inserts a single line break. The break element is an empty element, which means it contains no content. Browser compatibility requires the blank space before the backslash character.

Required attributes: None

Optional attributes: None

```
This line contains <br /> a line break.
```

### <button>

The <button> element specifies a push button within your document. A button element can contain text or images.

Required attributes: None

**Optional attributes:** 

- disabled: makes the button disabled and removes the control from tab navigation. The control's value won't be submitted when the form is submitted.
- name: specifies the unique name for the button.
- type: specifies the type of button. Valid values include button, reset, and submit. If no type is specified the default value is submit.
- value: removes the control from tab navigation and won't submit the control's value when the form is submitted.

# <caption>

The <caption> element is used to place a caption above a table; it is not contained within a row or cell. The caption element is placed immediately after the start tag for the table. You can specify a single caption per table.

Required attributes: None

Optional attributes: None

```
Example:
```

```
<body>
<caption> Our Pizza Selections</caption>
  Pizza type
   Medium
   Large
 Thin crust
  $4.99
  $7.99
 Deep Dish
  $6.99
  $9.99
 </body>
```

### <cite>

The <cite> element specifies a reference to another resource.

Required attributes: None

Optional attributes: None

### Example:

```
<Restaurant critic <cite> Sam Waters </cite>
had this to say about our eatery:
<blockquote cite="http://example.com/food/review"
/>
 The atmosphere is cozy and food is terrific.
<cite>Bon Appetit, March 2008</cite>
</blockquote>
```

### <code>

The <code> element is used to define text as computer code.

Required attributes: None

Optional attributes: None

```
Example:
<code>
function helloWorld() {
    var button = document.getElementById("button");
    if (button) {
        button.onclick = function() {
            alert("Hello World");
        }
    }
    }
    </code>
```

### <col>

The < col > element is used to define the attribute values for one or more columns in a table. You can use the col element to specify whatever attributes you want to be in common for each column in a table.

#### Required attributes: None

#### **Optional attributes:**

- align: specifies the alignment of the text within a cell. Possible values include center, char, justify, left, and right.
- char: specifies which character the text should be aligned on. This requires the use of the align attribute with the value set as char.
- charoff: specifies in pixels or as a percentage how far the alignment should be adjusted to the first character to align on. This requires the use of the align attribute with the value set as char.
- span: specifies the number of columns the col should occupy as a number.
- valign: specifies the vertical alignment of the text within a cell. Possible values include baseline, bottom, middle, and top.
- width: specifies the width of the table in pixels or as a percent.

```
<col width="33" valign="middle" />
<col width="50" valign="top" />

. . .
```

# <colgroup>

The <colgroup> element is used to define a group of col elements. You should use this element only within a table element. Use this element to group columns for formatting.

Required attributes: None

**Optional attributes:** 

- align: specifies the alignment of the text within a cell. Possible values include center, char, justify, left, and right.
- char: specifies which character the text should be aligned on. This requires the use of the align attribute with the value set as char.
- charoff: specifies in pixels or as a percentage how far the alignment should be adjusted to the first character to align on. This requires the use of the align attribute with the value set as char.
- span: specifies the number of columns the col should occupy as a number.
- valign: specifies the vertical alignment of the text within a cell. Possible values include baseline, bottom, middle, and top.
- width: specifies the width of the table in pixels or as a percent.

```
<colgroup>
<col width="33" valign="middle" />
<col width="50" valign="top" />
</colgroup>
. . . 
. . .
```

### <dd>

The < dd > element marks the start of a definition for a term within a definition list (see < dl > element). A definition term must be within a set of definition list (< dl >) elements.

Required attributes: None

Optional attributes: None

### <del>

The <del> element can be used to specify text that has been deleted in a document. It is often used when you're editing a document and trying to keep track of all the original content. Most web browsers display the text with a line though it.

Required attributes: None

**Optional attributes:** 

cite: if the quote is from an Internet source, a URL will point to where the quote is from.

datetime: specifies the data and time that the text was deleted.

#### Example:

```
This text contains a <del> deleted</del> word.
```

### <div>

The < div> element specifies a division or section within a document. It has no default rendering. Typically, most browsers will induce a line return at the end of a division.

Required attributes: None

Optional attributes: None

```
<div>
This text is contained in a division. 
</div>
```

# <dfn>

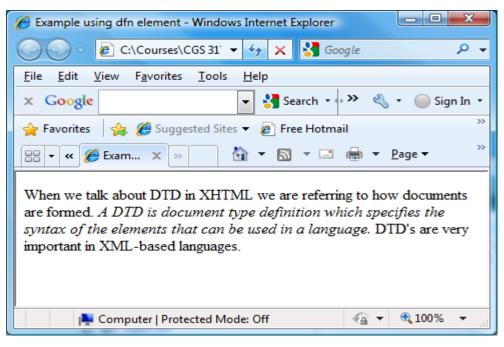
The <dfn> element is used to define a definition within text.

Required attributes: None

Optional attributes: None

### Example:

```
When we talk about DTD in XHTML we are referring
to how documents are formed.
<dfn> A DTD is document type definition which
specifies the syntax of the elements that
can be used in a language.
</dfn>DTD's are very important in XML-based
languages.
```



# < dl >

The < dl > element marks the start of a definition list. A definition list must be in the body of the document.

Required attributes: None

Optional attributes: None

### <dt>

The < dt > element marks the start of a term within the definition list. A definition term must be within a set of < dl > elements.

Required attributes: None

Optional attributes: None

Example:

```
<dl>
<dl>
<dd>Pizza</dt>
<dd>
<dd>
<dd>
</dd>
```

### < em >

The  $\langle em \rangle$  element is used to define text that will be emphasized when rendered.

Required attributes: None

Optional attributes: None

Example:

This text is <em> emphasized </em> here.

# <fieldset>

The <fieldset> element is used to draw a box around the element within it. It is often used to when grouping elements within a form to help nonvisual browsers.

Required attributes: None

Optional attributes: None

```
<form method="post" action="/cgi-bin/handler.cgi">
<fieldset>
<legend> Subscribe to our mailing list</legend>
<label> for="email" Enter your email
address</label>
<input type="text" id="email" name="email" />
input type="submit" name="subscribe"
value="Subscribe" />
</fieldset>
</form>
```

# <form>

The <form> element is used to contain other elements that make up a form used for user input. Forms are used to pass data from controls to a specified URL.

### Required attributes:

action: specifies the URL where to the send the data when the user clicks the Submit button on the form. It is also possible that the form was submitted using a script, in which case it will act as if the Submit button was clicked.

#### **Optional attributes:**

accept: specifies a comma-separated list of MIME types that the server accepts and processes correctly as files.

- accept-charset: A comma-separated lists of possible character sets for the form data.
- enctype: specifies the MIME type used to encode the data within the form when the method attribute is set to post.
- method: specifies the HTTP method for sending the data to the URL specified by the action attribute. Possible values are get and post. Specifying get appends the data after the URL itself in the URL. Specifying post places the data within the request itself.

```
<form method="post" action="/cgi-bin/handler.cgi">
<fieldset>
<legend> Subscribe to our mailing list</legend>
<label> for="email" Enter your email
address</label>
<input type="text" id="email" name="email" />
input type="submit" name="subscribe"
value="Subscribe" />
</fieldset>
</form>
```

# <h1> - <h6>

The <h1> - <h6> elements define headers within the document. An <h1> element specifies the largest header while the <h6> element specifies the smallest header.

Required attributes: None

Optional attributes: None

Example:

```
<h1>
This is a large header
</h1>
<h2>
This is a smaller header
</h2>
```

### <head>

The <head> element contains information about the HXTML document. Typically, nothing in the head section is displayed to the user in a browser.

```
Required attributes: None
```

**Optional attributes:** 

profile: specifies a space-separated list of URLs that point to metadata profiles about the page.

```
<head>
<title> My document </title>
</head>
```

# <hr />

The <hr /> element is used to display a horizontal line when rendering the document. The <hr /> element is an empty element.

Required attributes: None

Optional attributes: None

Example:

```
<body>
   This is a line of text. 
  <hr />
   There is a horizontal line above this text.

  </body>
```

### <html>

The <html> element tells a browser that the document is an HTML document and is the parent of all the other major sections within the document.

Required attributes:

xmlns: used to define the XML namespace attribute. However, most validations assume the value "http://www.w3.org/1999/xhtml" since it is a fixed value.

Optional attributes: None

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

# <img>

The <img> element specifies an image within a document. The <img> element is an empty element.

### Required attributes:

alt: specifies brief description of the image.
src: specifies the URL of the image to be displayed.

### **Optional attributes:**

height: specifies the height of the image.

ismap: specifies that the image should be used as a server-side image map.

- longdesc: specifies a URL to a document that contains a long description of the image.
- usemap: specifies the image as a client-side image map. The browser should look for the map and area elements for the specifics.

### Example:

<img src="/images/Colnago Super.jpg" title="One of my bikes" alt="A bike from Itlay" />

# <input>

The <input> element specifies the start of an input field where the user can enter data.

#### Required attributes: None

#### **Optional attributes**:

- accept: specifies a comma-separated list of MIME types that indicate the type used for a file transfer when using the file value for the type attribute.
- alt: specifies a brief description of the image.
- checked: specifies that the input element should be checked (selected). This is valid with the checkbox and radio types.
- disabled: if set to the value disabled, it will make the <input> control disabled and not respond to user interaction.

ismap: specifies the image should be used as a server-side image map.

maxlength: specifies the maximum number of characters allowed in a text field when using the text value in the type attribute.

name: specifies the unique name for the input element.

readonly: specifies the value readonly. It indicates that the value of the field cannot be modified when using the text value in the type attribute.

- size: specifies the size of the input element in characters.
- src: specifies the URL of an image to be displayed when using the value image with
   the type attribute.
- type: specifies the type of the input element. Valid values are button, checkbox, file, hidden, image, password, radio, reset, submit, and text (default).
- usemap: specifies the image as a client-side image map. The browser should look for the map and area elements for the specifics.
- value: the value attribute has different meaning based on the type attribute's value. For button, reset, and submit types, it specifies the text that appears on the button. For the image type, it specifies the symbolic result of the field passed to a script. For the checkbox and radio types, it specifies the result of the input element when clicked.

```
<input type="submit: name="login" value="Log In"
/>
```

# <ins>

The <ins> element is used to specify text that has been inserted into a document. It is often used when editing a document and trying to keep track of all the content. (See also the <del> element.) In most web browsers, the displayed text is underlined.

Required attributes: None

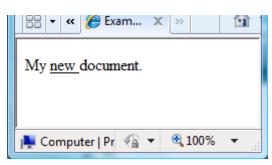
**Optional attributes:** 

cite: if the quote is from an Internet source, a URL will point to where the quote is from.

datetime: specifies the data and time that the text was inserted.

### Example:

My <ins> new </ins> document.

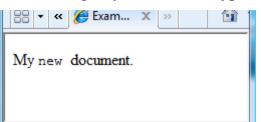


### <kbd>

The <kbd> element is used to define text as being keyboard text. Typically this means a font style difference.

Required attributes: None

Optional attributes: None



Example: My <kbd> new </kbd> document.

# <label>

The <label> element provides a programmatic association between the prompt and the form control, so that assistive technology can interact with the element effectively. In visual browsers, if the user clicks the text within the label element, the element will manipulate the control as if the user clicked on the control itself.

Required attributes: None

**Optional attributes:** 

for: specifies which element within a form the label is attached to and will manipulate. This attribute should be set to the ID of another form element.

```
<form method="post" action="cgi-bin/handler.cgi">
<fieldset>
<legend> Subscribe to our mailing list</legend>
<label for="email">Your email
address</label>
<input type="text" name="email" id="email />
</fieldset>
<input type="submit" id="subscribe"
value="Subscribe" /> 
</form>
```

# <legend>

The <legend> element is used to define a caption for a fieldset.

Required attributes: None

Optional attributes: None

```
<form method="post" action="cgi-bin/handler.cgi">
<fieldset>
<legend> Subscribe to our mailing list</legend>
<label for="email">Your email
address</label>
<input type="text" name="email" id="email />
</fieldset>
<input type="submit" id="subscribe"
value="Subscribe" /> 
</form>
```

# >

The element is used to indicate each item to be displayed in a list. The list item element is used in both ordered (ol) and unordered lists (ul).

Required attributes: None

Optional attributes: None

```
<h2>Specialty Pizzas</h2>
 <1i>
   <h3>Barbecue Chicken Pizza</h3>
    An American departure from Italian tradition
     Spicy barbecue sauce.
        Chunks of mesquite grilled chicken
        Blend of three cheeses:
          Mozzarella
             Monterey Jack
             Smoked Gouda
           Thin-sliced red onion
         Roasted red pepper
      🖉 <!-- replace this comment with your do... 🔚 🗖 🔀
     🔄 🕞 👻 🥖 🖉 E:\Courses\CGS 3175 🔽 😽 🗙 🛛 Google
                               <u>File E</u>dit <u>V</u>iew F<u>a</u>vorites <u>T</u>ools <u>H</u>elp
                               Google G-
                                                    💙 Go 👴 ≫
                                                             🔘 Settings 🗸
                               😭 🍄 🔠 🗸 에 CNN.... 🏉 <... 🗙
                                                             🟠 -
                               Speciality Pizzas

    Barbecue Chicken Pizza

                                    An American departure from Italian tradition

    Spicy barbecue sauce.

                                      o Chunks of mesquite grilled chicken

    Blend of three cheeses:

    Mozzarella

    Monterey Jack

    Smoked Gouda

                                      o Thin-sliced red onion

    Roasted red pepper

                                          😼 My Computer
                                                            🕄 100%
```

# <link>

The <link> element is used to define the relationship between two linked documents. It is most often used to link external style sheets to the current document.

Required attributes: None

Optional attributes:

- charset: specifies the character set being used by the document being linked.
- href: specifies the URL pointing to the document that is being linked.
- media: specifies the type of media that the document that is being linked is meant for. Common values include all, braille, print, projection, screen, and speech.
- rel: specifies the relationship between the linked document and the current document. Common values include alternate, appendix, bookmark, chapter, contents, copyright, glossary, help, index, next, prev, section, start, stylesheet, and subsection.
- rev: This is the opposite of rel. It defines the relationship between the current document and the linked document. Same possible values as the rel attribute.
- type: This attribute specifies the MIME type of the target URL. The most common value is text/css for use with external style sheets, and text/javascript for use with JavaScript files.

```
<link rel="stylesheet" href="thirdCSS.css"
type="text/css" />
```

### <map>

The <map> element specifies a client-side image map with clickable regions.

#### Required attributes:

id: specifies a unique name for the map element.

#### **Optional attributes**:

name: specifies a unique name for the map element.

```
<body>
<map id="map" name="map">
<area shape="rectangle" href="square.html"
coords="20,27 97,76" alt="order square
pizza" />
area shape="circle" href="circle.html"
coords="167,51 35" alt="order round
pizza" />
</map>
<img usemap="#map" src="imagemap.gif"
alt="Choose square or round pizza! " />
</body>
```

### <meta>

The <meta> element provides information about the document. This information may be used by search engines that catalog pages on the Internet. You may use the meta element to provide keywords and descriptions for the search engines to use in order to catalog your document. You can also use the meta element to allow for automated refreshes using the http-equiv attribute. The term *meta* refers to metadata, which is a term that is often described as "data about data". The meta element provides data about the data in the document.

#### Required attributes:

content: This is the value or data to be associated with a name or httpequiv.

#### **Optional attributes:**

- http-equiv: This attribute is used to connect the content attribute value to a specific HTTP response header. You can use it to request the browser to do something or to reference information about the document from an external source.
- name: This attribute is used to assign extra information to a document. The value of this attribute comes from the content attribute. Some common names include author, keywords, description, and summary.
- scheme: This attribute is used to define a format that is used to interpret the value set in the content attribute.

#### Example:

```
<meta name="keywords" content="HTML, XHTML, CSS,
JavaScript." />
```

### <noscript>

The <noscript> element is used to specify alternate content if scripting is not allowed on the client side.

Required attributes: None

Optional attributes: None

# <object>

The <object> element specifies an object to be embedded into the document. Use the param element to specify any values that need to be passed.

Required attributes: None

#### **Optional attributes:**

- archive: A spaced-separated list of URLs that contain any resources for the object.
- classid: This attribute specifies the location of an object's implementation through a URL.
- codebase: This attributed specifies the base path to be used when relative URLs are provided for classid, data, and archive attributes.
- codetype: Specifies the MIME type of the code referred to in the classid attribute.
- data: Specifies a URL that refers to any data for the object.
- declare: Specifies that the object should only be declared and created when needed.
- height: Specifies the height of the object in pixels.
- name: Specifies a unique name for the object, which will be used in JavaScript to access the object. The name attribute is commonly used so that this control can be used in form submissions.
- standby: Specifies the text to display when the object is being loaded.

type: Specifies the MIME type of data in the data attribute.

- usemap: Specifies a client-side map in the form of a URL that will be used with the object.
- width: Specifies the width of the object in pixels.

```
A short video about making pizza
<div>
    <object data="makingpizza.mpg" type="video.mpeg"
        width="370" height="275">
        <param name="src" value="makingpizza.mpg" />
        </object>
        </div>
```

# <01>

The  $\langle ol \rangle$  element is used to signify a list. An ordered list must be within the body of the document.

Required attributes: None

Optional attributes: None

```
<h2>Specialty Pizzas</h2>
 <1i>
   <h3>Barbecue Chicken Pizza</h3>
     An American departure from Italian tradition
      Spicy barbecue sauce.
         Chunks of mesquite grilled chicken
         Blend of three cheeses:
           <01>
               Mozzarella
               Monterey Jack
               Smoked Gouda
            Thin-sliced red onion
          Roasted red pepper
       🖉 <!-- replace this comment with your do... 🔳 🗖 🔀
     😋 🕞 👻 🏉 E:\Courses\CGS 3175 🔽 🛃 🗙 Google
                               <u>File E</u>dit <u>V</u>iew F<u>a</u>vorites <u>T</u>ools <u>H</u>elp
                                                🗸 Go 👴 ≫
                               Google G-
                                                        🔘 Settings 🗸
                               😭 🕸 🔡 🕶 « 🌽 <!-- re... 🗴 ᠉
                                                        🟠 -
                               Speciality Pizzas
                                  • Barbecue Chicken Pizza
                                   An American departure from Italian tradition
                                     o Spicy barbecue sauce.

    Chunks of mesquite grilled chicken

    Blend of three cheeses:

                                        1. Mozzarella
                                        2. Monterey Jack
                                        3. Smoked Gouda

    Thin-sliced red onion

                                     o Roasted red pepper
                                        😼 My Computer
                                                       3,100%
```

# <optgroup>

The <optgroup> element is used to define an option group. It allows you to group choices together.

#### Required attributes:

label: Specifies the label to be used for the option group.

#### **Optional attributes:**

disabled: specifies the option group as being disabled. The user won't be able to interact with the controls.

### Example:

```
<select name="extra">
  <option value="" selected="selected">Choose one extra
             topping</option>
  <optgroup label="Meat">
    <option>Pepperoni</option>
    <option>Sausage</option>
    <option>Canadian Bacon
    <option>Anchovies</option>
  </optgroup>
  <optgroup label="Fruits/Veggies/Fungi">
    <option>Onions</option>
    <option>Peppers</option>
                                           🚯 Option groups - Opera
    <option>Olives</option>
                                           <u>File E</u>dit <u>V</u>iew
                                                     <u>B</u>ookmarks
                                                                 Tools
                                                            Widgets
    <option>Mushrooms</option>
    <option>Pineapple</option>
                                            « 🗲 🔶 » 💋 🟠
  </optgroup>
  <optgroup label="Other">
                                            Choose one extra topping 👻
    <option>Extra cheese</option>
                                            Choose one extra topping
                                            Meat
  </optgroup>
                                            Pepperoni
</select>
                                            Sausage
                                            Canadian Bacon
                                            Anchovies
                                            Fruits/Veggies/Fung
                                            Onions
                                            Peppers
```

Olives Mushrooms Pineapple Other Extra cheese

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# <option>

The <option> element specifies an option in the drop-down or list control. It is common to have several option elements for each list.

Required attributes: None

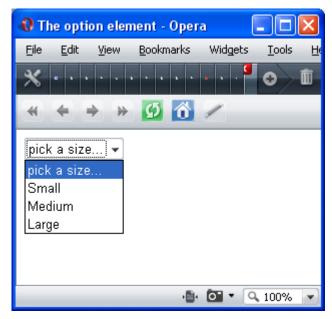
### Optional attributes:

disabled: sets the control as disabled.

label: allows authors to provide a shorter label for the content of an option element.

selected: specifies the value that is selected by default.

value: specifies the value for the option that will be sent to the server.



# **<**p>

The <p> element defines a paragraph within the document.

Required attributes: None

Optional attributes: None

Example:

This is a paragraph of text. This is another paragraph of text.

### <param>

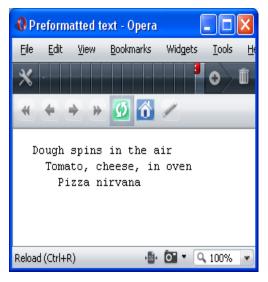
The <param> element allows you to set run-time values for objects that have been inserted into a document.

Required attributes: None

Optional attributes: None

The element specifies the text as preformatted text and usually preserves spaces and line breaks.

<u>Required attributes</u>: None <u>Optional attributes</u>: None <u>Example:</u> <body> Dough spins in the air Tomato, cheese, in oven Pizza nirvana





The <q> element defines a short quotation.

Required attributes: None

#### **Optional attributes:**

cite: If the quote is from an Internet source, a URL will point to where the quote is from.

```
Norm Deplume, food critic for <cite>The Gotham
Examiner</cite>, recently commended our geek-friendly
attitude, even saying that we're
<q
cite="http://example.com/food/reviews/SpaghettiCruft/
">a popular
spot for the neighborhood technophiles to linger with
their laptops.
```

### <samp>

The <samp> element is used to specify sample output. It works similar to the code, kdb, and var elements.

Required attributes: None

Optional attributes: None

## <script>

The <script> element plays a key role in making your website more dynamic and feature-rich. It allows you to add scripting languages to your XHTML documents that respond to user actions. We'll see this element when we get to JavaScript later in the semester.

### Required attributes:

type: This attribute defines the MIME type of the script included. This is typically set as text/javascript when using JavaScript.

### **Optional attributes:**

- charset: defines the character encoding that is used in the script.
- defer: tells the browser that the script won't generate any document content, so it can continue parsing and drawing the page.
- src: specifies the URL to point to a document that contains the script.

```
<head>
  <title>JavaScript Basics</title>
  <script src="myscript.js"
      type="text/javascript">
    </script>
</head>
```

## <select>

The <select> element is used to create a drop-down list.

Required attributes: None

### **Optional attributes:**

disabled: makes the select element disabled and unresponsive to user interaction..

multiple: specifies that more than one item can be selected at a time.

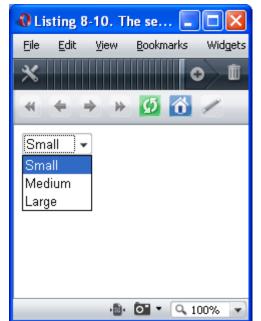
name: specifies the unique name for the select element.

size: specifies the number of visible items in the drop-down list.

### Example:

```
<body>
<form method="post" action="/cgi-
bin/formhandler.cgi">
<select name="size">
<option>Small</option>
<option>Medium</option>
<option>Large</option>
</select>
</form>
```

</body>

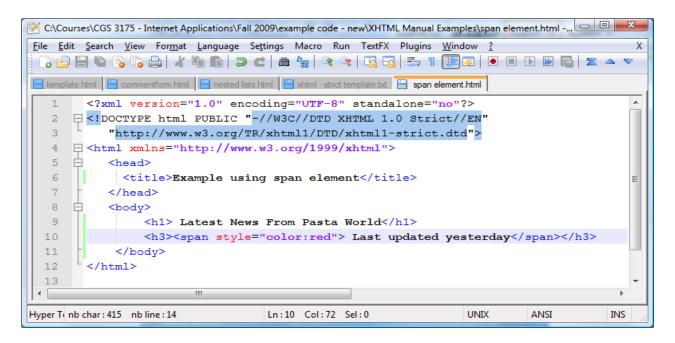


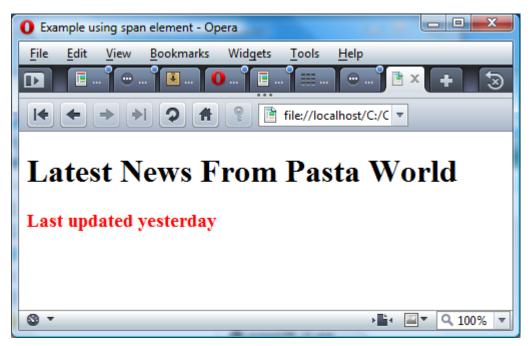
## <span>

The <span> element is used to group inline elements within a document.

### Required attributes: None

Optional attributes: None





# <style>

The <style> element's sole purpose is to allow you to create internal style sheets for your documents. The style element provides a placeholder for internal styles that you can use throughout the document. The style element must be contained within the head element.

#### Required attributes:

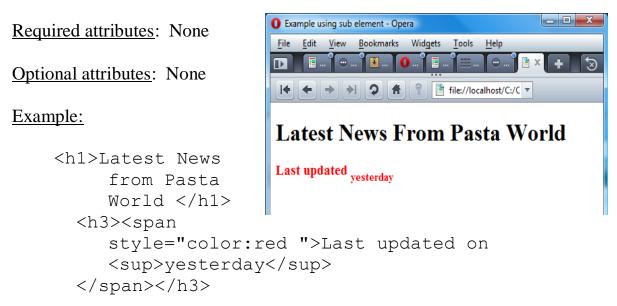
type: defines the style type. It is normally set to text/css.

### **Optional attributes:**

media: for the specifics on the media types.

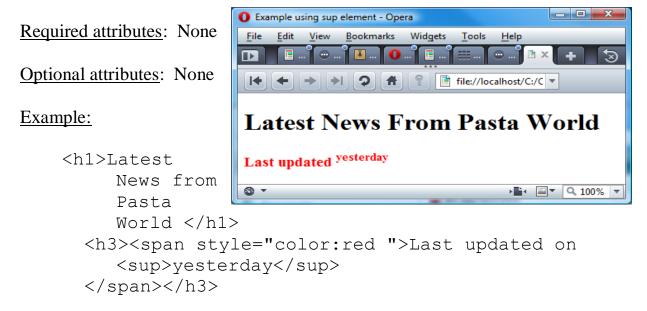
## <sub>

The <sub> element specifies text that is subscripted text. Subscript text is typically rendered in a smaller font below the normal text.



### <sup>

The <sup> element specifies text that is superscripted text. Superscript text is typically rendered in a smaller font raised above the normal text.



The element defines where a table will exist. A table is used to hold tabular data. You can place table headers, rows, cells, and other tables within a table.

Required attributes: None

**Optional attributes:** 

border: specifies the width of the border for a table in pixels.

- cellpadding: specifies the amount of space between the cell walls and the contents in pixels or as a percentage.
- cellspacing: specifies the amount of space between cells in pixels or as a percentage.
- frame: specifies how the outer borders of a table should be displayed. This attribute is used along with the border attribute. Possible values are above, below, border, box, hsides, lhs, rhs, void, and vsides.
- rules: specifies the divider lines used for horizontal and vertical lines. This attribute is used along with the border attribute. Possible values are all, cols, group, none, and rows.
- summary: specifies the summary of what the table is for browsers that provide speech synthesizing and nonvisual capabilities.
- width: specifies the width of the table in pixels or as a percentage.

```
<body>
  <table border="1" summary="Prices for types of pizza
         by size">
    Pizza Type
     Small
     Medium
     Large
    Thin Crust
     3.99
     4.99
     6.99
    Deep Dish
     4.99
     6.99
     8.99
    Stuffed Crust
     5.99
     7.99
                    🚯 A Basic Table - Opera
                                  9.99
                         <u>V</u>iew
                     File
                       <u>E</u>dit
                            <u>B</u>ookmarks
                                Widgets <u>T</u>ools
    m
 </body>
                          » 🖸 🟠
                         ÷.
                       4
                          Small Medium Large
                     Pizza Type
                     Thin Crust
                          3.99 4.99
                                6.99
                     Deep Dish
                          4.99 6.99
                                8.99
                     Stuffed Crust 5.99 7.99
                                9.99
```

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The element is used to define a table body section. It is contained within a element and you may have multiple tbody elements. The <thead>, , and <tfoot> elements allow you to group rows within a table easily.

Required attributes: None

**Optional attributes:** 

- align: specifies the alignment of the text within a cell. Possible values are center, char, justify, left, and right.
- char: specifies which character the text should be aligned on. This requires the use of the align attribute with the value set as char.
- charoff: specifies in pixels or as a percentage how far the alignment should be adjusted to the first character to align on. This requires the use of the align attribute with the value set as char.
- valign: specifies the vertical alignment of cell content. Possible values are baseline, bottom, middle, and top.

```
<head>
   <title>Adding Text Alignment</title>
   <style type="text/css">
     td {border:1px solid black;}
     table {border:1px solid black;}
     td.number{text-align: right;color: blue;}
     td.text{text-align: left;}
   </style>
 </head>
 <body>
   <table summary="This table provides the pricing
           information for pizzas">
     <caption>Our Pizza Selections</caption>
     <thead>
       <t.r>
         Pizza Type
         Small
```

```
Medium
    Large
   </thead>
  Thin Crust
    3.99
    4.99
    6.99
   Deep Dish
    4.99
    6.99
    8.99
   Stuffed
      Crust
    5.99
    7.99
    9.99
   🚯 Adding Text Alignmnet - Opera 📘
 <u>B</u>ookmarks
           File
            <u>E</u>dit <u>V</u>iew
                    Widgets <u>T</u>ools
</body>
               ▶ Ø ☆
              ÷.
             Our Pizza Selections
           Pizza Type Small Medium Large
                3.99
                   4.99
           Thin Crust
                     6.99
                4.99
                   6.99
           Deep Dish
                     8.99
           Stuffed Crust 5.99
                   7.99
                     9.99
                  👜 💽 👻 🔍 100%
```

The element is used to hold each cell within a row in a table.

Required attributes: None

**Optional attributes:** 

abbr: specifies a shortened version of the content in a cell in text.

- align: specifies the alignment of cell content. Possible values are center, char, justify, left, and right.
- axis: associates a cell with a conceptual category.
- char: specifies which character the text should be aligned on. This requires the use of the align attribute with the value set as char.
- charoff: specifies in pixels or as a percentage how far the alignment should be adjusted to the first character to align on. This requires the use of the align attribute with the value set as char.
- colspan: specifies the number of columns this cell should occupy as a number.
- rowspan: specifies the number of rows this cell should occupy as a number.
- valign: specifies the vertical alignment of cell content. Possible values are baseline, bottom, middle, and top.

### Example:

## <textarea>

The <textarea> element allows multiple lines of text input. It provide for unlimited amount of text. Mostly used in forms.

#### Required attributes:

- cols: A number that specifies the number of columns that are visible in the text area.
- rows: A number that specifies the number of rows that are visible in the text area.

**Optional attributes:** 

- disabled: makes the text area control disabled and unresponsive to the user.
- name: specifies the unique name for the text area control.
- readonly: sets the text area control so that the user cannot change its content.

#### Example:

```
<body>
<form method="post" action="/cgi-bin/formhandler.cgi">
<textarea name="message" rows="6" cols="50">
     Dearest Mario and Luigi,
     Your crust is divine, your sauce both sweet and
     spicy.
     Your wireless connection is stable where the
     coffee shop's is dicey.
</textarea>
                                                                     🚯 The textarea element - Opera
</form>
                                     File Edit View Bookmarks Widgets Tools Help
</body>
                                      🔫 🗢 🔶 😥 🚮 🥒 🗎 file://localhost/E:/Coul 🗸
                                      Dearest Mario and Luigi,
                                      Your crust is divine, your sauce both sweet and
                                      spicy.
                                      Your wireless connection is stable where the
```

coffee shop's is dicey.

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## <tfoot>

The <tfoot> element is contained within a table element and specifies a table footer. The <thead>, , and <tfoot> elements allow you to group rows within a table easily.

Required attributes: None

Optional attributes:

- align: specifies the alignment of cell content. Possible values are center, char, justify, left, and right.
- char: specifies which character the text should be aligned on. This requires the use of the align attribute with the value set as char.
- charoff: specifies in pixels or as a percentage how far the alignment should be adjusted to the first character to align on. This requires the use of the align attribute with the value set as char.
- valign: specifies the vertical alignment of cell content. Possible values are baseline, bottom, middle, and top.

### Example:

The element can be used in place of the element to mark a row as a header. A header row is normally bolded and centered within a cell.

### Required attributes: None

**Optional attributes**:

abbr: specifies a shortened version of the content in a cell in text.

- align: specifies the alignment of cell content. Possible values are center, char, justify, left, and right.
- axis: associates a cell with a conceptual category.
- char: specifies which character the text should be aligned on. This requires the use of the align attribute with the value set as char.
- charoff: specifies in pixels or as a percentage how far the alignment should be adjusted to the first character to align on. This requires the use of the align attribute with the value set as char.
- colspan: specifies the number of columns this cell should occupy as a number.
- rowspan: specifies the number of rows this cell should occupy as a number.
- valign: specifies the vertical alignment of cell content. Possible values are baseline, bottom, middle, and top.

### Example:

## <thead>

The <thead> element is contained within a table element and specifies a table header. The <thead>, , and <tfoot> elements allow you to group rows within a table easily.

Required attributes: None

**Optional attributes:** 

- align: specifies the alignment of cell content. Possible values are center, char, justify, left, and right.
- char: specifies which character the text should be aligned on. This requires the use of the align attribute with the value set as char.
- charoff: specifies in pixels or as a percentage how far the alignment should be adjusted to the first character to align on. This requires the use of the align attribute with the value set as char.
- valign: specifies the vertical alignment of cell content. Possible values are baseline, bottom, middle, and top.

### Example:

## <title>

The <title> element allows you to provide a title to your document. Browsers typically display this value in the title bar of the browser. This element must appear within the <head> element.

Required attributes: None

Optional attributes: None

```
Example:
```

```
<head>
<title>The textarea element</title>
</head>
```

### 

The element describes a row in a table.

Required attributes: None

**Optional attributes:** 

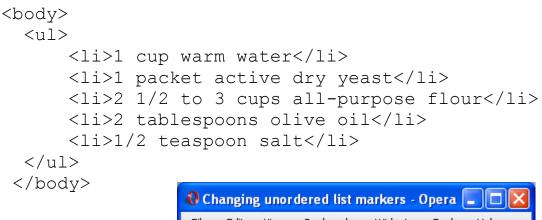
- align: specifies the alignment of cell content. Possible values are center, char, justify, left, and right.
- char: specifies which character the text should be aligned on. This requires the use of the align attribute with the value set as char.
- charoff: specifies in pixels or as a percentage how far the alignment should be adjusted to the first character to align on. This requires the use of the align attribute with the value set as char.
- valign: specifies the vertical alignment of cell content. Possible values are baseline, bottom, middle, and top.

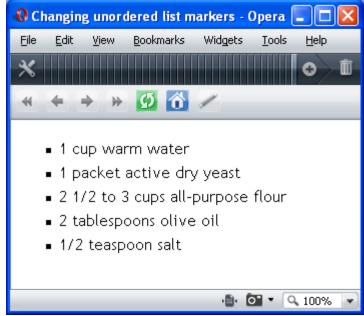
```
see  element
```

The  $\langle ul \rangle$  element is used to specify content as an unordered list. An unordered list must be in the body of the document.

Required attributes: None

Optional attributes: None





### <var>

The <var> element is used to define a variable within text.

Required attributes: None

Optional attributes: None

Example:

see code, kbd, and samp

NOTE: The following elements are legal in XHTML Strict, however, they are style elements and as such using CSS is the preferred method instead of using these elements in XHTML.

<b> - for rendering bold text. <big> - for rendering larger than normal text. <i> - for rendering italic text. <small> - for rendering smaller than normal text. <tt> - for rendering monospaced text.