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## • • Overview

- Tables
- Forms
- (mention of frames)

#### • • • Tables

- A table is a matrix of cells
  - · The cells can include almost any element
  - Some cells have row or column labels and some have data
- A table is specified as the content of a tag
- Each row of a table is specified as the content of a 
   tag
- The row headings are specified as the content of a tag
- Each data cell of a row is specified as the content of a tag

# • • • Table Basic Formatting

- A border attribute in the tag specifies a border between the cells
  - If border is set to "border", the browser's default width border is used
  - The border attribute can be set to a number, which will be the border width
    - E.g. border = "4"
  - Without the border attribute, the table will have no lines!
  - border attribute not supported in HTML5
- Tables are given titles with the <caption> tag, which can immediately follow

# Table Example

#### rowspan and colspan attributes

- Table cells are sized to fit the data they contain
- You can create larger data cells by using these attributes:
  - rowspan set in the or tag to
     specify that the cell must span some number of rows
  - colspan set in the or tag to
     specify that the cell must span some number of columns

http://www.cs.nott.ac.uk/~bnk/WPS/cell\_span.html

# align and valign attributes

- The align attribute controls the horizontal placement of the contents in a table cell
  - Values are left, right, and center
  - Default for labels is center, for data it is left
  - align is an attribute of >, , and
- The valign attribute controls the vertical placement of the contents of a table cell
  - Values are top, bottom, and center (default)
  - valign is an attribute of and
- Both attributes are not supported in HTML5

http://www.cs.nott.ac.uk/~bnk/WPS/cell\_align.html

# cellpadding and cellspacing attributes

- The cellspacing attribute of is used to specify the distance between cells in a table
- The cellpadding attribute of is used to specify the spacing between the content of a cell and the inner walls of the cell
- Both attributes are not supported in HTML5

## Table Sections

- Tables naturally occur in two and sometimes three parts
- Header <thead>
  - First section, contains header information such as column names
- Body
  - Table's primary data
  - If a document has multiple tbody elements, they are separated by thicker horizontal lines
- Footer <tfoot>
  - · E.g. for calculation results and footnotes

#### • • Forms

- A form is the usual way information is communicated from a browser to a server
- HTML has tags to create a collection of objects that implement this information gathering
  - These objects are called controls or widgets (e.g., radio buttons and checkboxes)
- When the Submit button of a form is clicked, the form's values are sent to the server

# The <form> Tag

- All of the components (widgets) of a form are defined in the content of a <form> tag
- The only required attribute of <form> is action
  - specifies the URL of the application that is to be called when the Submit button is clicked
  - action = "http://www.cs.nott.ac.uk/cgibin/survey.pl"
  - if the form has no action, the value is set to the empty string (" ")
- The method attribute of <form> specifies one of the two possible techniques of transferring the form data to the server, get and post

# • • • The <input> Tag

- Many controls are created with the <input> tag
- The type attribute of <input> specifies the kind of control being created
- Text
  - Creates a horizontal box for text input
  - Default size is 20 characters; it can be changed with the size attribute
  - If more characters are entered than will fit, the box is scrolled (shifted) left
  - " maxlength max number of characters
    <input type = "text" name = "Phone" size
    = "12" >

# • • • The <input> Tag

- Password
  - type = "password"
- Only bullets or asterisks displayed by browser
- Checkboxes to collect multiple choice input
  - Every checkbox requires a value attribute, which is the widget's value in the form data when the checkbox is 'checked'
  - A checkbox that is not 'checked' contributes no value to the form data
  - · By default, no checkbox is initially 'checked'
  - To initialize a checkbox to 'checked', the checked attribute must be set to "checked"

http://www.cs.nott.ac.uk/~bnk/WPS/checkbox.html

# • • • The <input> Tag

- Radio Buttons collections of checkboxes in which only one button can be 'checked' at a time
  - Every button in a radio button group MUST have the same name
  - If no button in a radio button group is selected the browser often selects the first one

http://www.cs.nott.ac.uk/~bnk/WPS/radio.htm

# • • • The <select> Tag - Menus

- There are two kinds of menus
  - · those that behave like checkboxes and
  - those that behave like radio buttons (the default)
  - Menus that behave like checkboxes are specified by including the multiple attribute, which must be set to "multiple"
- The name attribute of <select> is required

### ● ● ● The <select> Tag - Menus

- The size attribute of <select> can be included to specify the number of menu items to be displayed (the default is 1)
  - If size is set to > 1 or if multiple is specified, the menu is displayed as a scrolled list
- Each item of a menu is specified with an <option> tag
  - whose pure text content (no tags) is the value of the item
- An <option> tag can include the selected attribute, which when assigned "selected" specifies that the item is pre-selected

http://www.cs.nott.ac.uk/~bnk/WPS/menu.html http://www.cs.nott.ac.uk/~bnk/WPS/menu2.html

# • • • | **The** <textarea> **Tag**

- · Creates a multiline text area
- Usually include the rows and cols attributes to specify the size of the text area
- Default text can be included as the content of <textarea>
- · Scrolling is implicit if the area is overfilled

http://www.cs.nott.ac.uk/~bnk/WPS/textarea.html

## Submit and Reset Buttons

Both are created with <input>

<input type = "reset" value = "Reset Form">
<input type = "submit" value = "Submit Form">

- Reset clears all controls to their initial states
- Submit has two actions:
  - 1. Encode the data of the form
  - Request that the server execute the serverresident program specified as the value of the action attribute of <form>
- A Submit button is required in every form

Complete form: http://www.cs.nott.ac.uk/~bnk/WPS/popcorn.html

#### • • | Frames

- Rectangular sections of the display window, each of which can display a different document
- Uses of frames
  - Navigation systems (table of contents)
  - Static title
  - Advertising
- Frames are not supported in XHTM5
- Use discouraged because they:
  - break the fundamental paradigm of the web
  - The page is the basic unit of the web represented by a URL
  - cause usability problems

#### Framesets

- The <frameset> tag specifies the number of frames and their layout in the window
- <frameset> takes the place of <body>
  - Cannot have both!
- <frameset> must have either a rows attribute or a cols attribute, or both (usually the case)
  - The possible values for rows and cols are:
    - numbers size in pixels
    - percentages % of total browser window size
    - asterisks remainder of window

# • • | Frame tag

- The <frame> tag specifies the content of a frame
- The first <frame> tag in a <frameset> specifies the content of the first frame, etc.
  - · Row-major order is used
  - Frame content is specified with the src attribute
  - Without a src attribute, the frame will be empty (such a frame CANNOT be filled later)
- If <frameset> has fewer <frame> tags than frames, the extra frames are empty

http://www.cs.nott.ac.uk/~bnk/WPS/frames.html

# ● ● ● Summary

- Tables
- Forms
- (Frames)