HTML Forms

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Introduction to Forms

An HTML form is a section of a document.

Users generally "complete" a form by modifying its **controls** (entering text, selecting menu items, etc.), before submitting the form to an agent for processing.

Usual Control Types:

buttons, checkboxes, radio buttons, menus, text input, file select, hidden controls, etc.



The form element

The form element acts as a container for controls. It specifies

- The layout of the form
- The program that will handle the completed and submitted form
- The method by which user data will be sent to the server
- A character encoding that must be accepted by the server in order to handle this form



The form element

Some Attributes

- action, to specify a form processing agent (URI)
- method = get | post, to specify which HTTP method will be used to submit the form data set
- enctype = application/x-www-form-urlencoded | multipart/ form-data

HTML5 new attributes

- autocomplete
- novalidate



Some attributes

- type = text | password | checkbox | radio | submit |
 reset | file | hidden | image | button
- name
 When several radios share the same control name, they are mutually exclusive.
- value
 To specify the initial value.
 It is optional except when the type attribute has the value "radio" or "checkbox".
 - To specify the initial width of the control.

 The width is given in pixels except
 when type attribute has the value "text" or "password" (its verifiers to the (integer) number of characters)

size

Some attributes

- maxlength
 - When the type attribute has the value "text" or "password", this attribute specifies the maximum number of characters the user may enter.
- checked

 When the type attribute has the value "radio" or "checkbox", this
 boolean attribute specifies that the button is on.
- src = *URI*When the type attribute has the value "image", this attribute specifies the location of the image.

HTML5 input types

- email, url
- number, range
- Date pickers: date, month, week, time, datetime, datetime-local
- search, color

```
<input type="email" name="user_email" />
<input type="number" name="points1" min="1" max="10" />
<input type="range" name="points2" min="1" max="10" step="2" />
```



HTML5 input attributes

- autocomplete, autofocus
- form, formaction, formenctype, formmethod, formnovalidate, formtarget
- height, width
- list
- min, max, step
- multiple
- pattern (regexp)
- placeholder
- required



```
Example(s)
<form action="demo_form.asp" method="get" id="user_form">
 First name: <input type="text" name="fname" />
 <input type="submit" />
</form>
Last name: <input type="text" name="lname" form="user form" />
<form action="demo_form.asp" method="get" id="user_form">
 E-mail: <input type="email" name="userid" /> <br />
 <input type="submit" value="Submit" /> <br />
 <input type="submit" formaction="demo admin.asp"</pre>
        value="Submit as admin" />
</form>
```



The button element

Some attributes

- name
- value
- type = submit | button | reset

```
<button name="submit" value="submit" type="submit">
    Send <img src="/icons/wow.gif" alt="wow">
</button>
```



The select and option elements

The select element

- name
- size

 To specify the number of rows in the list that should be visible at the same time.
- multiple

 If set, this boolean attribute allows multiple selections.



The select and option elements

The option element

- selected When set, this **boolean attribute** specifies that this option is pre-selected.
- value
 To specify the initial value of the control.
 If this attribute is not set, the initial value is set to the contents of the option element.



The textarea element

The textarea element creates a multi-line text input control.

Some attributes

- name
- rows
- cols



HTML5 New Form Elements

HTML5 New Form Elements

- <datalist>
- <keygen>
- <output>



Disabled and read-only controls

Boolean attributes

- disabled
- readonly



Form submission method

The method attribute value of the form element

- get
 the form data set is appended to the URI specified by the action
 attribute (with a question-mark ("?") as separator) and this new
 URI is sent to the processing agent,
 which restricts form data set values to ASCII characters.
- post
 the form data set is included in the body of the form and sent to
 the processing agent.



Successful controls

A successful control is "valid" for submission.

- A successful control must be defined within a form element and
- must have a **control name**.

Controls that are **disabled** cannot be successful.



Thank You! Any Questions?

