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Cheatsheets / Learn HTML

Forms

<input>: Checkbox Type

When using an HTML input element, the type="checkbox" attribute will render a single checkbox item. To create a group of checkboxes related to the same topic, they should all use the same name attribute. Since it's a checkbox, multiple checkboxes can be selected for the same topic.

<textarea> Element

The textarea element is used when creating a text-box for multi-line input (e.g. a comment section). The element supports the rows and cols attributes which determine the height and width, respectively, of the element. When rendered by the browser, textarea fields can be stretched/shrunk in size by the user, but the rows and cols attributes determine the initial size.

Unlike the input element, the <textarea> element has both opening and closing tags. The Value of the element is the content in between these tags (much like a element). The code block shows a <textarea> of size 10x30 and with a name of "comment".

```
<input type="checkbox" name="breakfast"
value="bacon">Bacon  <br>
<input type="checkbox" name="breakfast"
value="eggs">Eggs  <br>
<input type="checkbox" name="breakfast"
value="pancakes">Pancakes  <br>
```

```
<textarea rows="10" cols="30" name="comment"> </textarea>
```

<form> Element

The HTML <form> element is used to collect and send information to an external source.

<form> can contain various input elements. When a user submits the form,
information in these input elements is passed to the source which is named in
the action attribute of the form.

<input>: Number Type

HTML input elements can be of type <code>number</code> . These input fields allow the user to enter only numbers and a few special characters inside the field.

The example code block shows an input with a type of <code>number</code> and a name

of balance. When the input field is a part of a form, the form will receive a key-value pair with the format: Name: Value after form submission.

<input> Element

The HTML <input> element is used to render a variety of input fields on a webpage including text fields, checkboxes, buttons, etc. <input> element have a type attribute that determines how it gets rendered to a page. The example code block will create a text input field and a checkbox input field on a webpage.

```
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```

```
<form method="post" action="http://server1">
   Enter your name:
   <input type="text" name="fname">
   <br/>
   Enter your age:
   <input type="text" name="age">
   <br/>
   <input type="submit" value="Submit">
   </form>
```

```
<input type="number" name="balance" />
```

```
<label for="fname">First name:</label>
<input type="text" name="fname" id="fname"><br>
<input type="checkbox" name="vehicle" value="Bike">
I own a bike
```

<input>: Range Type

A slider can be created by using the type="range" attribute on an HTML input element. The range slider will act as a selector between a minimum and a maximum value. These values are set using the Min and Max attributes respectively. The slider can be adjusted to move in different steps or increments using the Step attribute.

The range slider is meant to act more as a visual widget to adjust between 2 values, where the relative position is important, but the precise value is not as important. An example of this can be adjusting the volume level of an application.

<select> Element

The HTML <Select> element can be used to create a dropdown list. A list of choices for the dropdown list can be created using one or more <Option> elements. By default, only one <Option> can be selected at a time.

The value of the selected <Select> 's name and the <option> 's value attribute are sent as a key-value pair when the form is submitted.

Submitting a Form

Once we have collected information in a form we can send that information somewhere else by using the action and method attribute. The action attribute tells the form to send the information. A URL is assigned that determines the recipient of the information. The method attribute tells the form what to do with that information once it's sent. An HTTP verb is assigned to the **method** attribute that determines the action to be performed.

<input>: Text Type

HTML <input> elements can support text input by setting the attribute type="text" . This renders a single row input field that users can type text inside.

The value of the <input> 's name and value attribute of the element are sent as a key-value pair when the form is submitted.

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```
<input type="range" name="movie-rating" min="0"</pre>
max="10" step="0.1">
```

```
<select name="rental-option">
  <option value="small">Small</option>
  <option value="family">Family Sedan</option>
  <option value="lux">Luxury</option>
</select>
```

```
<form action="/index3.html" method="PUT"></form>
```

```
<input type="text" name="username">
```

<datalist> Element

When using an HTML input, a basic search/autocomplete functionality can be achieved by pairing an <input> with a <datalist> . To pair a <input> with a <datalist> the <input> 's list value must match the value of the id of the <datalist> . The datalist element is used to store a list of <Option> s.

The list of data is shown as a dropdown on an input field when a user clicks on the input field. As the user starts typing, the list will be updated to show elements that best match what has been typed into the input field. The actual list items are specified as multiple Option elements nested inside the datalist.

datalist s are ideal when providing users a list of pre-defined options, but to also allow them to write alternative inputs as well.

<input>: Radio Button Type

HTML <input> elements can be given a type="radio" attribute that renders a single radio button. Multiple radio buttons of a related topic are given the same **name** attribute value. Only a single option can be chosen from a group of radio buttons.

The value of the selected/checked <input> 's name and value attribute of this element are sent as a key-value pair when the form is submitted.

Submittable Input

HTML <input> elements can have a type attribute set to submit, by adding type="Submit" . With this attribute included, a submit button will be rendered and, by default, will submit the <form> and execute its action. The text of a submit button is set to Submit by default but can also be changed by modifying the value attribute.

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```
<input list="ide">
<datalist id="ide">
  <option value="Visual Studio Code" />
  <option value="Atom" />
  <option value="Sublime Text" />
```

```
<input name="delivery_option" type="radio"</pre>
value="pickup" />
<input name="delivery_option" type="radio"</pre>
value="delivery" />
```

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</datalist>

<input> name Attribute

In order for a form to send data, it needs to be able to put it into key-value pairs. This is achieved by setting the name attribute of the input element. The name will become the key and the value of the input will become the value the form submits corresponding to the key.

It's important to remember that the name is not the same as the ID in terms of form submission. The ID and the name of the input may be the same, but the value will only be submitted if the Name attribute is specified.

In the code example, the first input will be submitted by the form, but the second one will not.

<label> Element

The HTML < label > element provides identification for a specific <input> based on matching values of the <input> 's id attribute and the <label> 's for attribute. By default, clicking on the <label> will focus the field of the related <input>.

The example code will create a text input field with the label text "Password: " next to it. Clicking on "Password: " on the page will focus the field for the related <input>.

<input> Password Type

The HTML <input> element can have the attribute

type="password" that renders a single row input field which allows the user to type censored text inside the field. It is used to type in sensitive information.

The value of this <input> 's name and value (actual value and not the censored version) attribute of this element are sent as a key-value pair when the form is submitted.

The code block shows an example of the fields for a basic login form - the username and password fields.

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```
<input name="username" id="username" />
<input id="address" />
```

```
<label for="password ">Password:</label>
<input type="text" id="password" name="password">
```

```
<input type="text" name="username" />
<input type="password" name="password" />
```

required Attribute

In HTML, input fields have an attribute called required which specifies that the field must include a value.

The example code block shows an input field that is required. The attribute can be written as required="true" or simply required.

max Attribute

HTML <input> s of type number have an attribute called max that specifies the maximum value for the input field.

The code block shows an input number field that is set to have a maximum value of 20. Any value larger than 20 will mark the input field as having an error.

maxlength Attribute

In HTML, input fields with type text have an attribute called maxlength that specifies the maximum number of characters that can be entered into the field. The code block shows an input text field that accepts text that has a maximum length of 140 characters.

pattern Attribute

In a text input element, the pattern attribute uses a regular expression to match against (or validate) the value of the <input>, when the form is submitted.

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```
<input type="password" name="password" required >
```

```
<input type="number" max="20">
```

```
<input type="text" name="tweet" maxlength="140">
```

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minlength Attribute

In HTML, an input field of type text has an attribute that supports minimum length validation. To check that the input text has a minimum length, add the minlength attribute with the character count.

The example code block shows an example of a text field that has a minimum length of $\,6\,$.

HTML Form Validators

HTML forms allow you to specify different kinds of validation for your input fields to make sure that data is entered correctly before being submitted. HTML supports a number of different validators, including things like minimum value, minimum/maximum length, etc. The validators are specified as attributes on the input field.

min Attribute

In HTML, input fields with type number have an attribute called min that specifies the minimum value that can be entered into the field. The code block provided shows an input number field that accepts a number with minimum value 1.

<input type="text" name="username" minlength="6" />

<input type="number" name="rating" min="1" max="10">