HTML5 and CSS3 – The Future of the Web Programming

HTML5 Forms

Sergio Luján Mora
Content

- New input types
- New attributes
• `<input type=email>`
  - `multiple`: it indicates that the value of the field can be a list of comma-separated, valid email addresses

• `<input type=url>`

• `<input type=date>`
• `<input type=time>`
• `<input type=datetime>`
• `<input type=month>`
• `<input type=week>`
• `<input type=number>`
• `<input type=range>`
• `<input type=tel>`

• `<input type=search>`
• `<input type=color>`
NEW ATTRIBUTES

• autofocus:
  – It provides a declarative way to focus a form control when a page is loaded
  – Previously, a developer had to write JavaScript that triggered the control’s focus() method onload
  – There should be only one such input field on a page
• placeholder:
  – It places text in an input field as a hint for the user, removing the text when the user focuses on the field, and restoring the text when focus leaves the field

• required:
  – Browsers will not allow the user to submit the form if required fields are empty and report an error
• pattern:
  – It allows you to specify a custom regular expression that the input must match

```html
<input type="text" pattern="[0-9][A-Z]{3}" name=part title="A part number is a digit followed by three uppercase letters">

<input type="text" pattern="[0-9]{5}([-][0-9]{4})?" title="A zip code in the format of 99999 or 99999-9999">

<input type="text" pattern="\d+(\.\d{2})?" title="A price with 2 optional decimals">
```
• min and max:
  – It constrain the range of values that can be entered in an input; you can’t submit the form with a number smaller than min or larger than max

• step:
  – It controls the level of granularity of input
  – Example: you want the user to enter a percentage between 0 and 100, but only to the nearest 5:

  <input type=number min=0 max=100 step=5>
<form>
  <label for="name">Name:</label>
  <input type="text" name="name" required placeholder="Name" />

  <label for="email">Email:</label>
  <input type="email" name="email" required placeholder="email@example.com" />

  <label for="website">Website:</label>
  <input type="url" name="website" required placeholder="http://www.example.com" />

  <label for="number">Number:</label>
  <input type="number" name="number" required placeholder="Even number < 10" min="0" max="0" step="2" />

  <label for="range">Range:</label>
  <input type="range" name="range" min="0" max="0" step="2" />

  <input type="submit" value="Send Message" />
</form>