



HTML5 and CSS3 – The Future of the Web Programming



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HTML5 Forms

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Content

- New input types
- New attributes



NEW INPUT TYPES



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- `<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>`

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- `<input type=number>`
- `<input type=range>`
- `<input type=tel>`



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- `<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



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- `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



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- `required`:
 - Browsers will not allow the user to submit the form if required fields are empty and report an error



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- `pattern`:
 - It allows you to specify a custom regular expression that the input must match



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```
<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">
```

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- 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



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- 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=form-name>Name</label>
  <input name=form-name id=form-name type=text required>
  <label for=form-email>Email</label>
  <input name=form-email id=form-email type=email required>
  <label for=form-url>URL</label>
  <input name=form-url id=form-url type=url>
  <label for=form-comment>Comment</label>
  <textarea name=form-comment id=form-comment required>
</textarea>
  <input type=submit>
</form>
```

```
<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 num
  < 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>
```