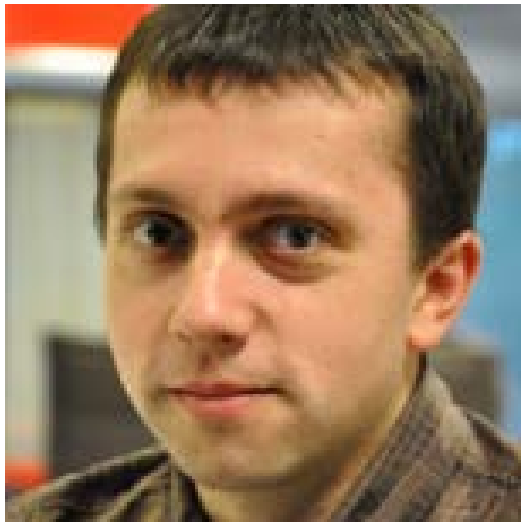
Navigation, Forms and Validation



Gill Cleeren

@gillcleeren

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Outline

Navigation with the nav element

Using the new input elements

Validating form input with HTML5 elements

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Target of This Module

We'll have a fully-working menu

The Checkout page will be created using the new input elements

The Checkout page contains validation on the form element

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Navigating the Coffee Store

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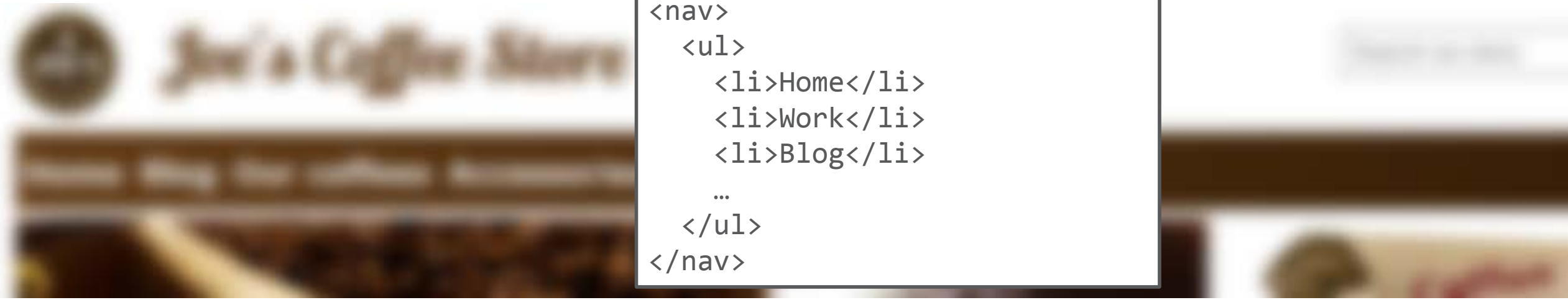


```
<nav>
  <ul>
    <li>Home</li>
    <li>Work</li>
    <li>Blog</li>
    …
  </ul>
</nav>
```

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Demo: Adding Navigation in Our Site

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Using the New Input Elements

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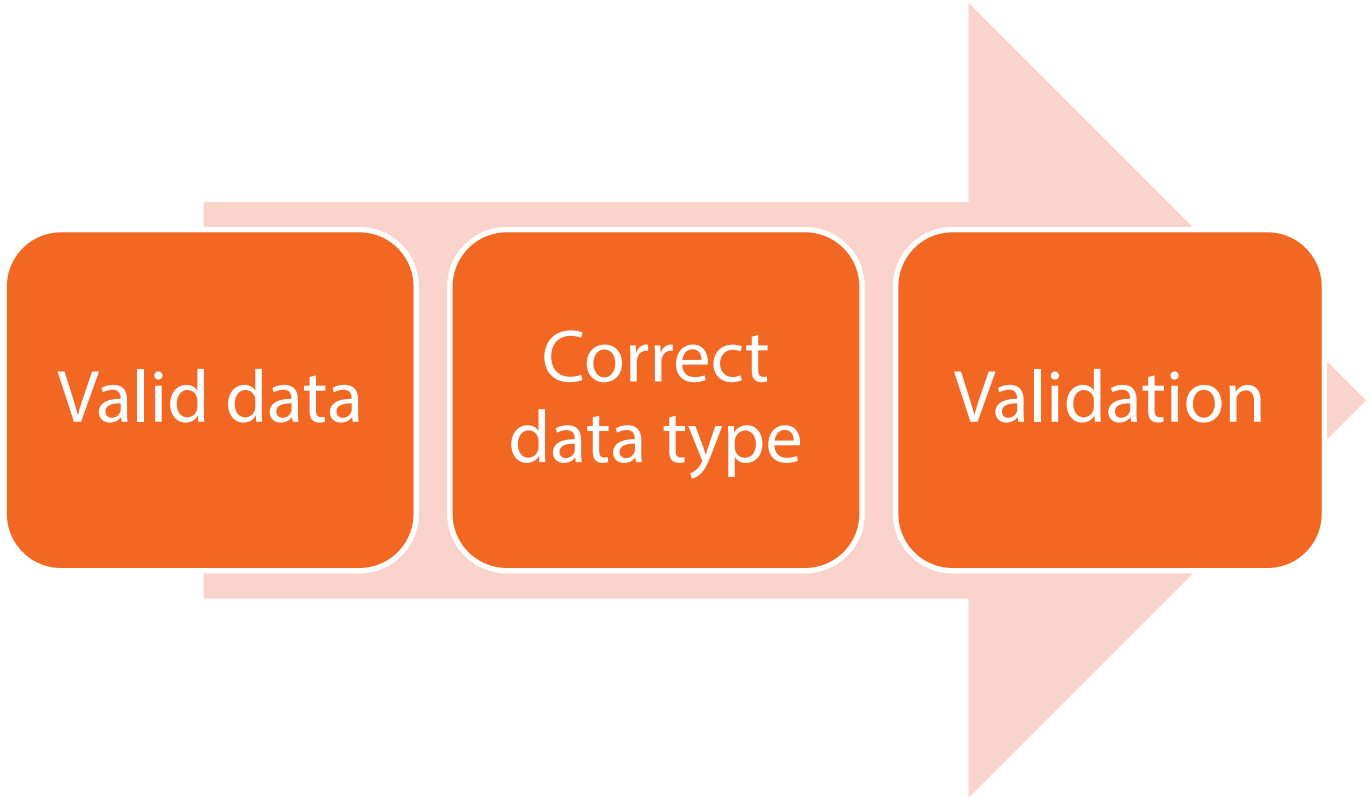
Guiding Users with Input



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New Input Types

color

email

number

date, datetime,

datetime-local, time, week, month

range

search

tel

url

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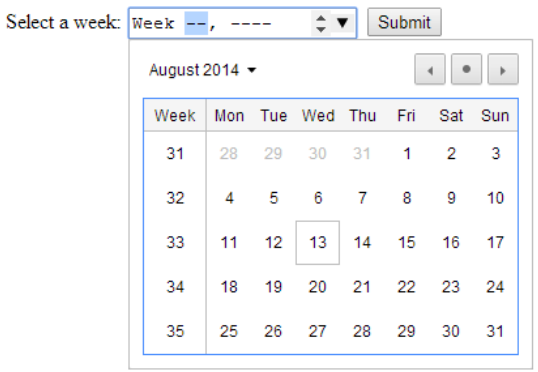
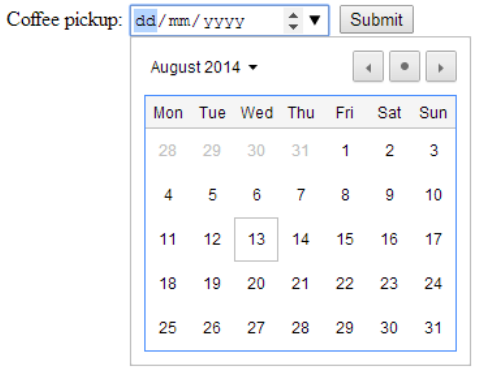
Date Input

```
<form >
  Coffee pickup: <input type="date" name="bday">
  <input type="submit">
</form>
```





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Email

```
<form >
  E-mail: <input type="email" name="usermail">
  <input type="submit" value="submit">
</form>
```

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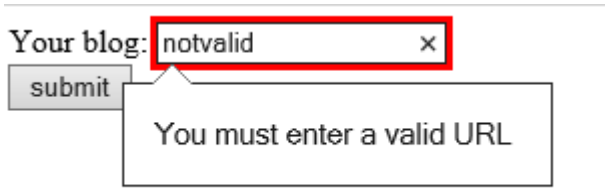
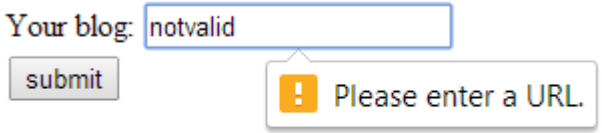
URL

```
<form >
  Your blog: <input type="url" name="homepage"><br>
  <input type="submit" value="submit">
</form>
```





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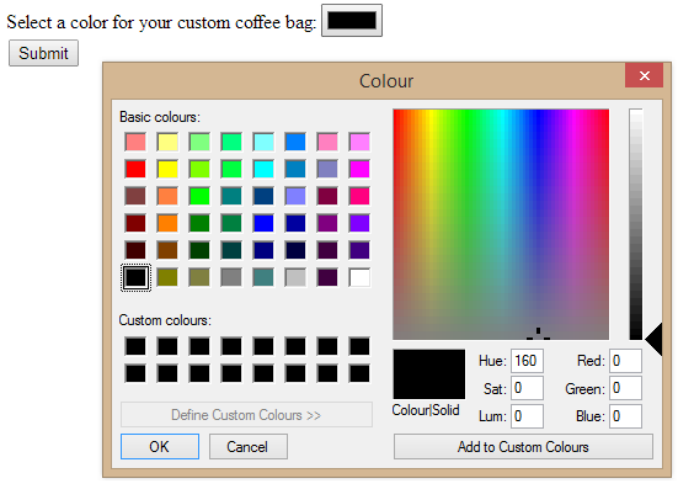
Color

```
<form >
  Select a color for your custom coffee bag:
    <input type="color" name="favcolor">
  <input type="submit">
</form>
```



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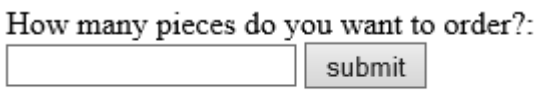
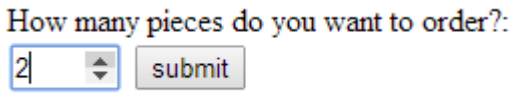
Numeric Input

```
<form >
  How many pieces do you want to order?: <br/>
  <input type="number" name="quantity" min="1" max="5">
  <input type="submit" value="submit">
</form>
```





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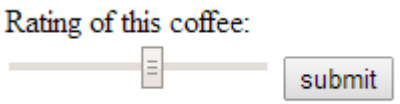
Range

```
<form>
   Rating of this coffee: <br>
   <input type="range" name="points" min="1" max="10">
   <input type="submit" value="submit">
</form>
```



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Demo: Creating the Order Page

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Validating Form Input

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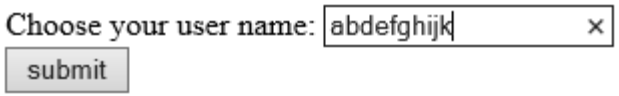
The maxlength Attribute

```
<form>
  Choose your user name: <input type="text“
    name="username" maxlength="20">
  <input type="submit" value="submit">
</form>
```



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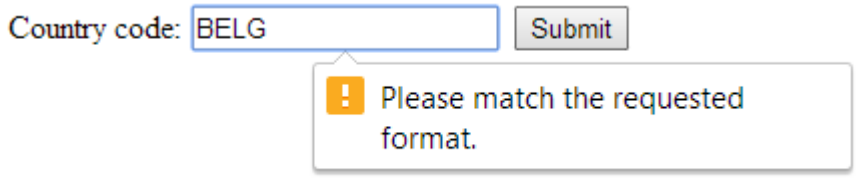
The pattern Attribute

```
<form>
  Country code: <input type="text" name="country_code"
    pattern="[A-Za-z]{3}">
  <input type="submit">
</form>
```



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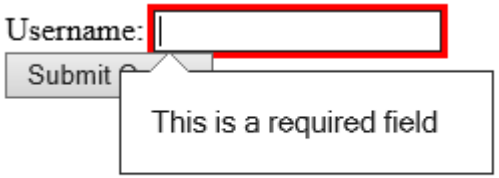
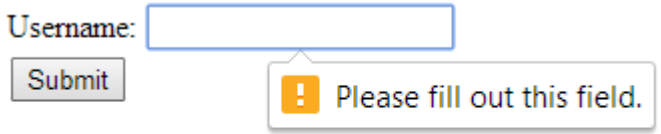
The required Attribute

```
<form >
  Username: <input type="text" name="username" required><br/>
  <input type="submit">
</form>
```





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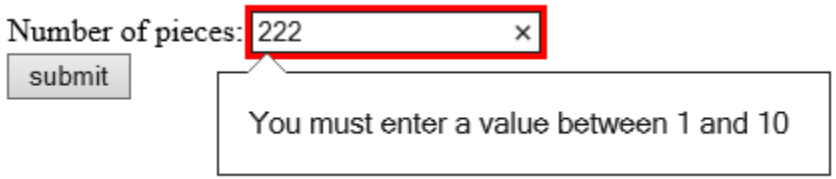
The max and min Attribute

```
<form >
  Number of pieces:
  <input type="number" name="pieces" min="1" max="10"><br>
  <input type="submit" value="submit">
</form>
```



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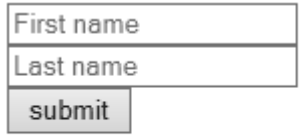
The placeholder Attribute

```
<form>
  <input type="text" placeholder="First name"><br>
  <input type="text" placeholder="Last name"><br>
  <input type="submit" value="submit">
</form>
```



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The novalidate Attribute

A form won't be submitted if it's not valid

- Can be overruled with the novalidate attribute

```
<form novalidate>
  E-mail: <input type="email" name="emailaddress">
  <input type="submit">
</form>
```

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The formnovalidate Attribute

```
<form>
  E-mail: <input type="email" name="userid"><br>
  <input type="submit" formnovalidate="formnovalidate"
  value="submit">
</form>
```

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Demo: Adding Validation on the Form

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Summary

nav can be used to add semantic meaning to a traditional menu

Forms can be more intelligent

- More input types available
- Validation on form and input types

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