



*Forms
and Styling*

Au Mau Duong
Technical Trainers

HTML Forms and Styling

Forms, Controls, Fields, Inputs, Submission, Validation

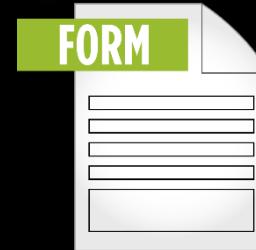


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<textarea></textarea>
```

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```
<input type="text"/>
```

```
<input type="password"/>
```

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```
<input type="submit"/>
```

```
<input type="checkbox"/>
```

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- Select / Optgroup

Female
Male
Female
Other

mouse
sound speakers
keyboard

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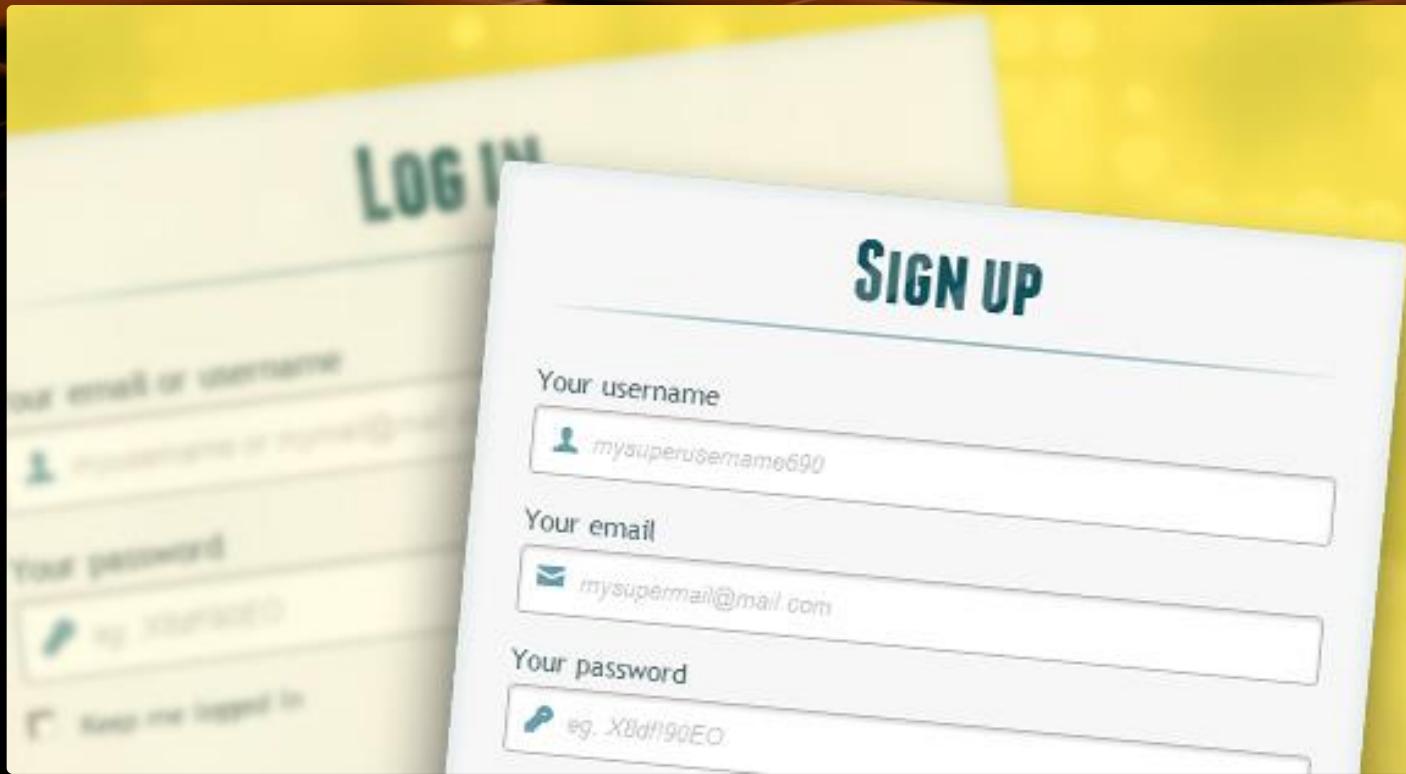
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HTML Forms

Entering User Data from a Web Page

HTML Forms: Overview

- Create a form block with the `<form>` tag

method tells how to send form data: HTTP GET or **POST** request

```
<form method="post" action="path/to/some-script.php">  
  <!-- form fields come here -->  
  <input type="..." name="..." />  
</form>
```

action tells where to send the form data

Text Fields

- Single-line text input fields:

Last name: Nakov

```
<input type="text" name="firstName" value="Nakov" />
```

- Multi-line text input fields (textarea):

```
<textarea name="comments">This is  
a multi-line text field</textarea>
```

This is
a multi-line text field

- Password input – masks the text with *

Password: ••••••••••

```
<input type="password" name="pass" />
```

Buttons

- Reset button – resets all form fields

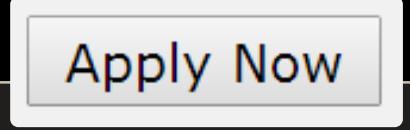
```
<input type="reset" />
```

A rectangular button with a thin gray border and a light gray background. The word "Reset" is centered in a dark blue sans-serif font.

Reset

- Submit button – sends the form data to the server:

```
<input type="submit" value="Apply Now"/>
```

A rectangular button with a thin gray border and a light gray background. The text "Apply Now" is in a blue and red sans-serif font.

Apply Now

- Image button – submit button with image

```
<input type="image" src="go.gif" alt="Submit"/>
```



- Static button – no default action, used with JavaScript

```
<input type="button" value="click me" />
```

A rectangular button with a thin gray border and a light gray background. The text "click me" is in a blue and red sans-serif font.

click me

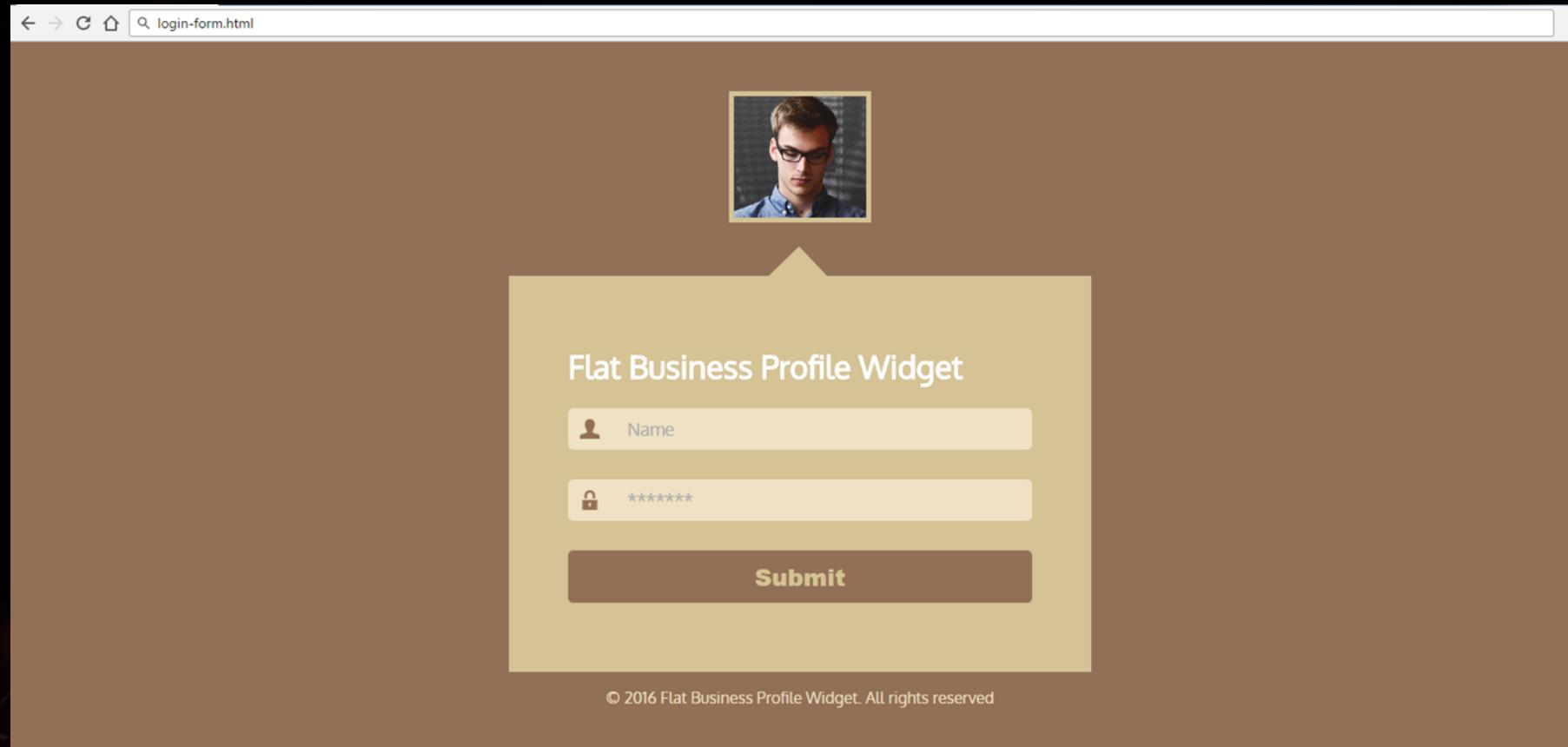
```
<button>Click <b>Me</b></button>
```

A rectangular button with a thin gray border and a light gray background. The text "Click Me" is in a black sans-serif font.

Click Me

Problem: Login Form (Images)

- Create Login Form like the screenshot below



Solution: Login Form (HTML)

```
<div class="image-container">  
    
</div>  
  
<form action="#">  
  <h1>Flat Business Profile Widget</h1>  
  <div class="form-field">  
      
  </div>  
  <div><input type="text" class="name"  
    placeholder="Name" />  
  </div>
```



Solution: Login Form (HTML)

```
<div class="form-field">
  
</div>
<div>
  <input type="password" class="pass"
    placeholder="*****" />
</div>
<input type="submit" class="submit" />
</form>
<footer><p>&copy; 2016 Flat...</p></footer>
```



Solution: Login Form (CSS)

```
@import url('https://fonts.googleapis.com/css?family=Oxygen');

body {
    background: #927057;
    font-family: 'Oxygen', sans-serif;
    color: #ffffff; }

.image-container {
    text-align: center;
    margin-top: 50px; }

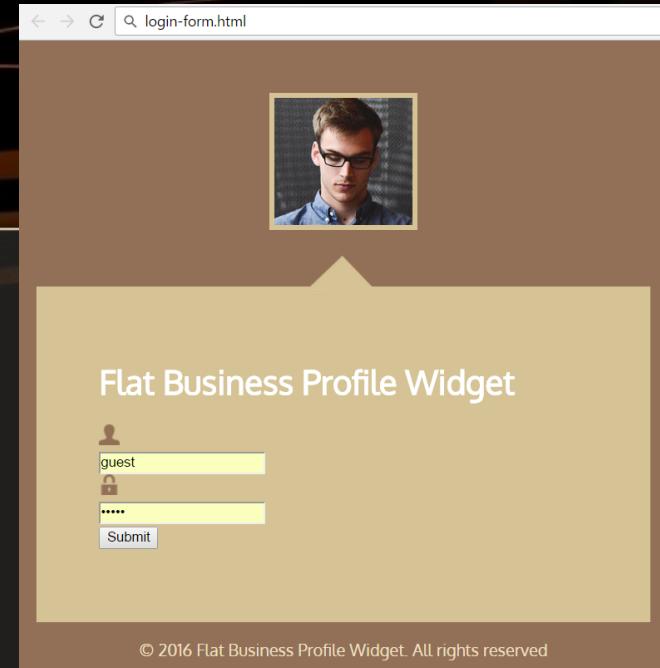
.image-container > img {
    border: 5px solid #d5c395;
    height: 123px; }
```



Solution: Login Form (CSS)

```
form {  
    position: relative;  
    width: 470px;  
    margin: 50px auto 0;  
    padding: 50px 60px 70px;  
    background: #d5c395;  
}  
  
footer {  
    font-size: 1em;  
    color: #EFE1C4;  
    text-align: center; }
```

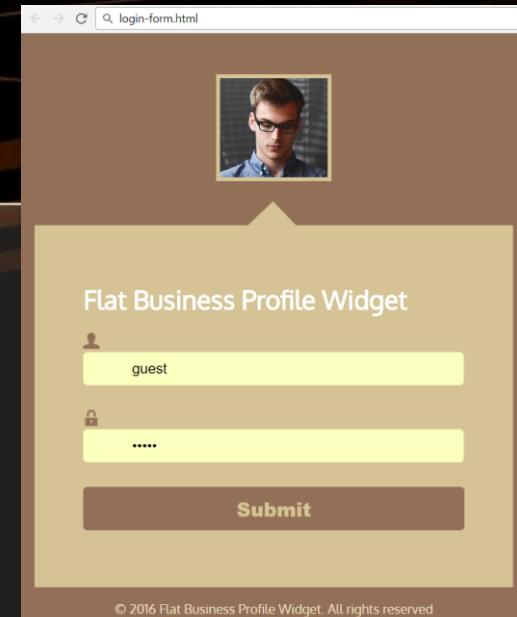
```
form::before {  
    position:  
        absolute;  
    top: -30px;  
    left: 259px;  
    height: 35px;  
    width: 68px;  
    background: url(img/3.png)  
        no-repeat 0 0;  
    content: '';  
}
```



Solution: Login Form (CSS)

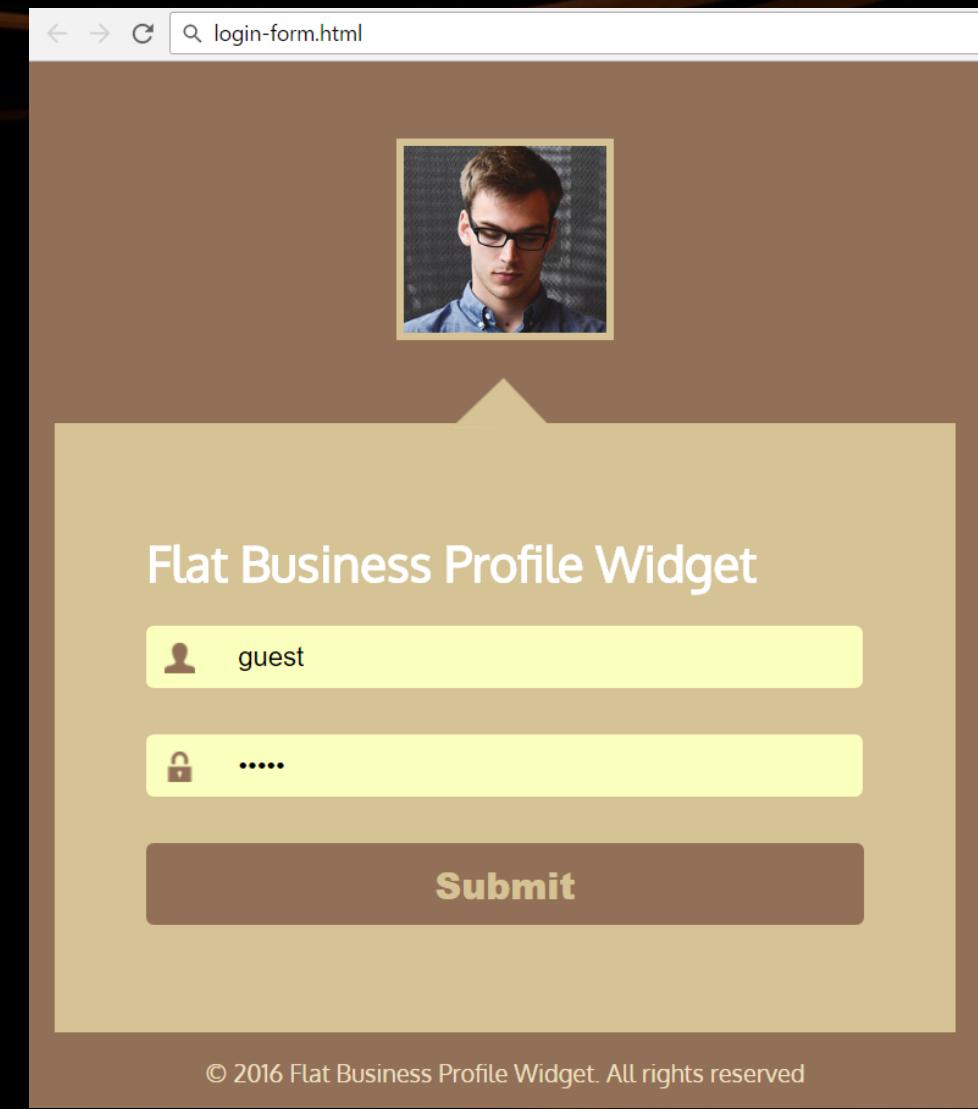
```
.name, .pass {  
    outline: none;  
    border: none;  
    background: #efef1c4;  
    padding: 10px 10px 10px 60px;  
    width: 85%;  
    font-size: 1.1em;  
    color: #927057;  
    border-radius: 5px;  
    margin-bottom: 30px;  
}
```

```
.submit {  
    outline: none;  
    border: none;  
    width: 100%;  
    padding: 10px;  
    max-width: 500px;  
    background: #927057;  
    color: #d5c395;  
    font-size: 1.5em;  
    font-weight: 900;  
    cursor: pointer;  
    border-radius: 5px; }
```



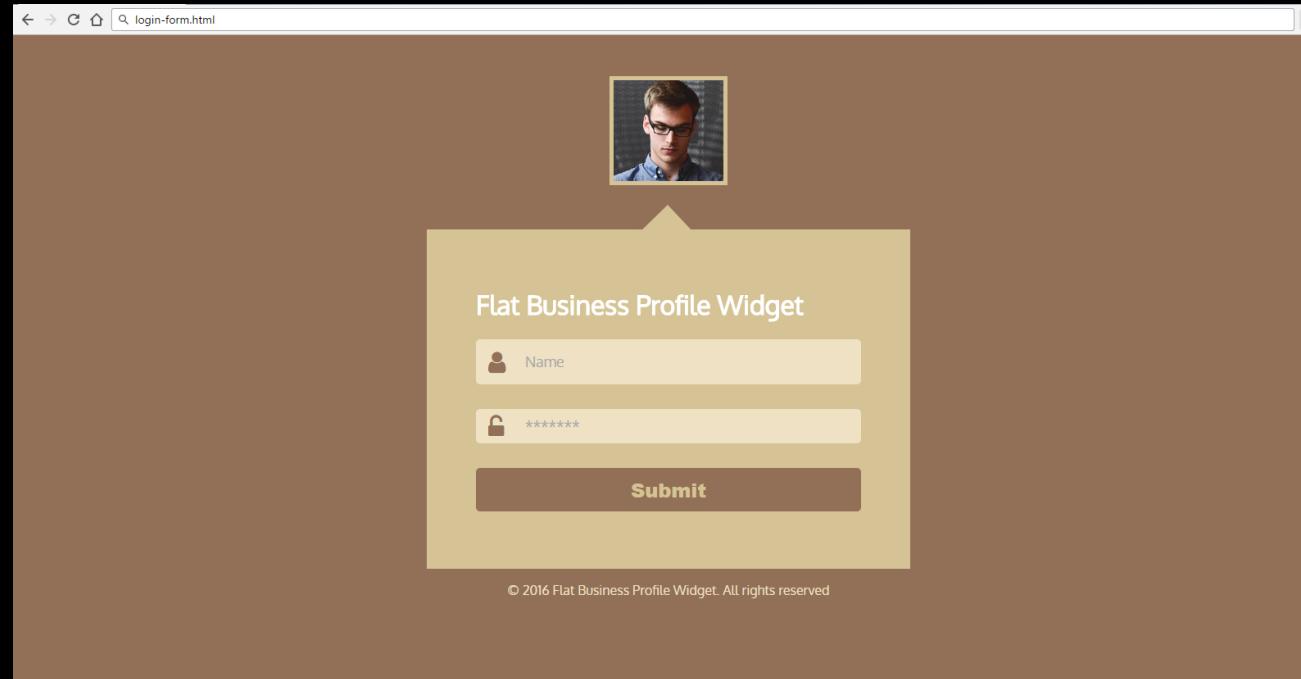
Solution: Login Form (CSS)

```
.submit:hover {  
    color: #fae7b0;  
    box-shadow: 0px 0px 3px #fff;  
}  
  
.form-field {  
    position: relative; }  
  
.form-field > img {  
    position: absolute;  
    top: 11px; left: 12px;  
    width: 20px; height: 20px;  
    border: none; }
```



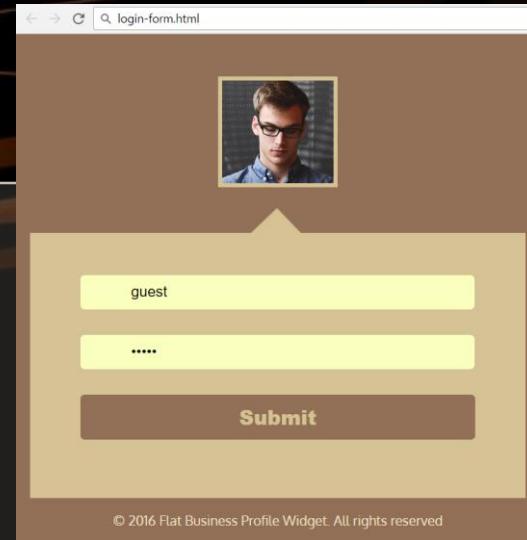
Problem: Login Form (Font Awesome)

- Create Login Form like the screenshot below
 - Use Font Awesome for the form fields icons



Solution: Login Form (HTML)

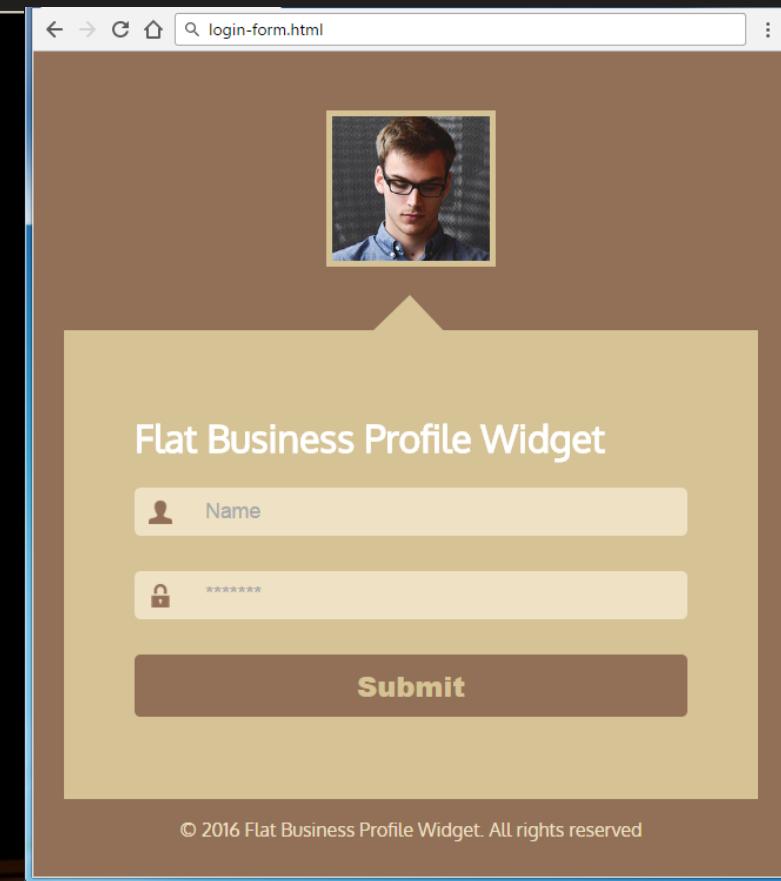
```
<form action="#">
  <div class="form-field">
    <input type="text" placeholder="Name"
           class="name">
    <i class="fa fa-user" aria-hidden="true"></i>
  </div>
  <div class="form-field">
    <input type="password" placeholder="*****" class="pass">
    <i class="fa fa-unlock-alt" aria-hidden="true"></i>
  </div>
  <input type="submit" class="submit">
</form>
```



Solution: Login Form (CSS)

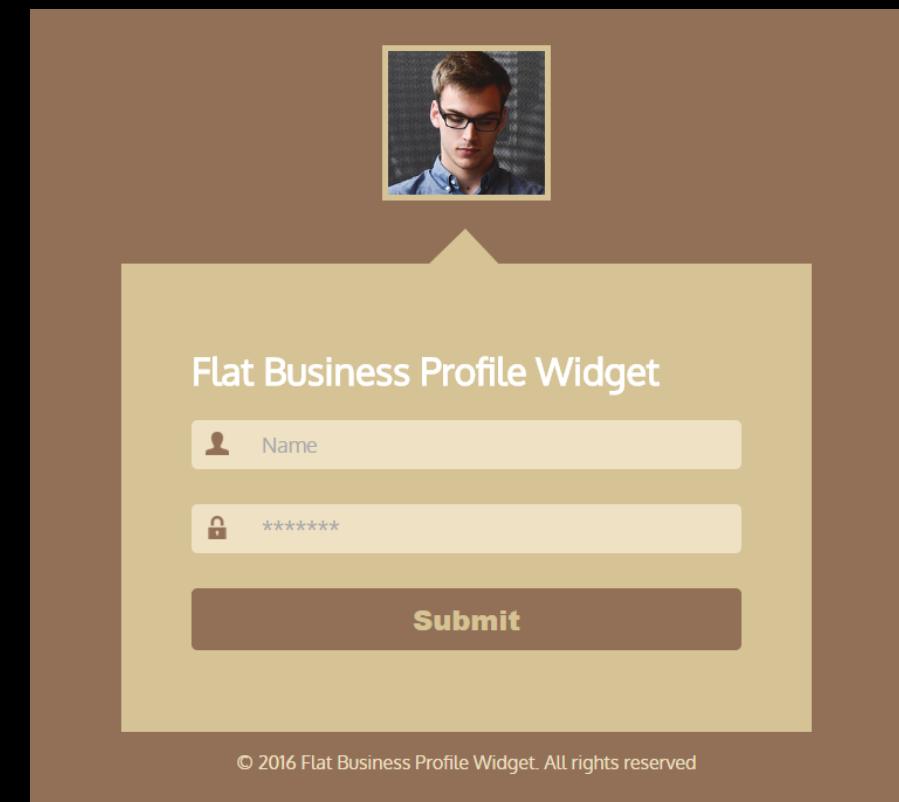
```
.form-field {  
    position: relative; }  
  
.fa-user {  
    font-size: 30px;  
    position: absolute;  
    top: 5px;  
    left: 15px;  
    color: #927057;  
}  
  
.fa-unlock-alt {  
    font-size: 30px;  
    position: absolute;
```

```
    top: 7px;  
    left: 15px;  
    color: #927057; }
```



Problem: Login Form (Background Images)

- Create Login Form like the screenshot below
 - Use background images for the icons
 - Use CSS from the previous problem



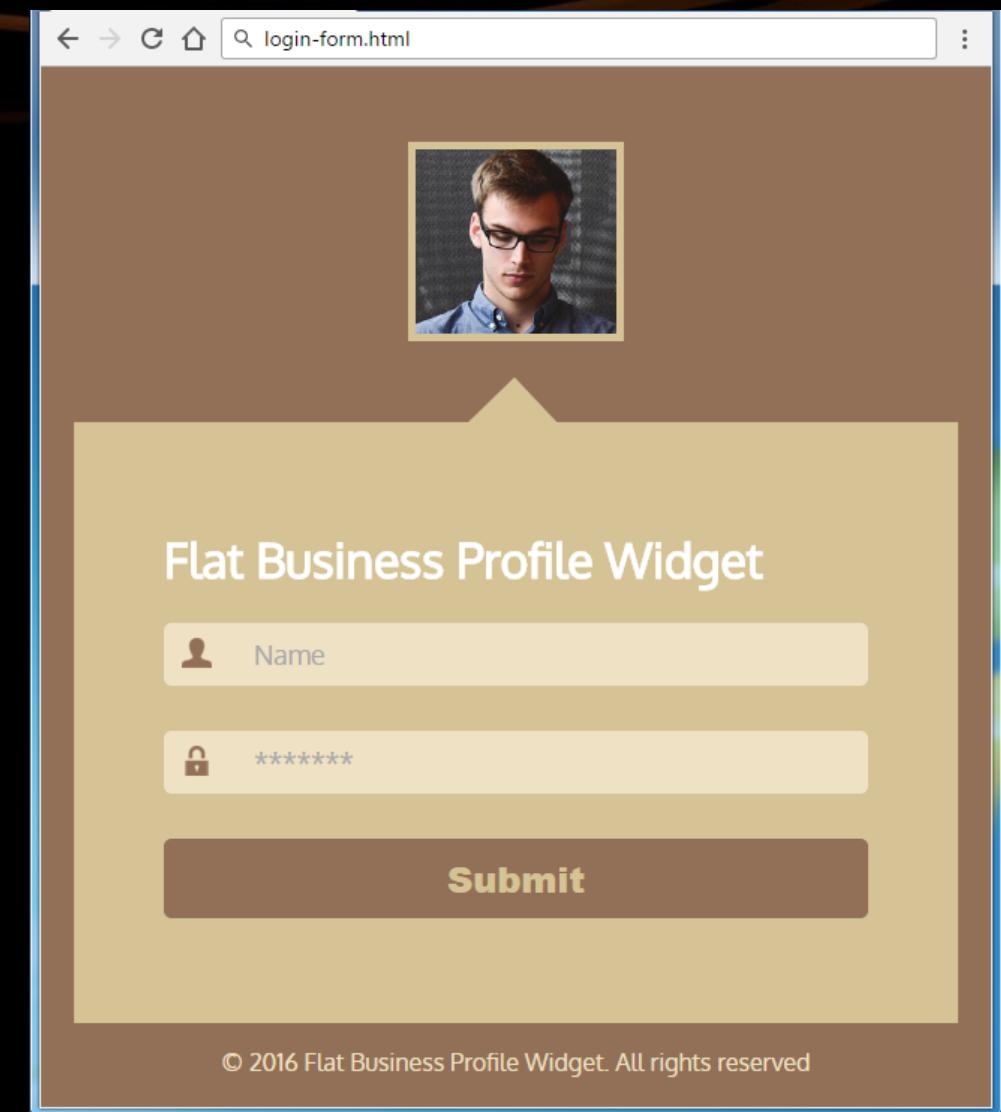
© 2016 Flat Business Profile Widget. All rights reserved

Solution: Login Form (HTML)

```
<form action="#">
  <div class="form-field">
    <input type="text"
      placeholder="Name" class="name">
  </div>
  <div class="form-field">
    <input type="password"
      placeholder="*****" class="pass">
  </div>
  <input type="submit" class="submit">
</form>
```

Solution: Login Form (CSS)

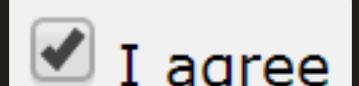
```
.pass {  
background: url(img/pass.png)  
no-repeat 12px 10px #efe1c4;  
}  
  
.name {  
background: url(img/user.png)  
no-repeat 12px 10px #efe1c4;  
}
```



Checkboxes and Radio Buttons

- Checkboxes:

```
<p><input type="checkbox" name="agree"  
value="yes">I agree</p>
```



- Radio buttons in a group named "city":

```
<input type="radio" name="city" value="1" /> Sofia <br/>  
<input type="radio" name="city" value="2" /> London <br/>  
<input type="radio" name="city" value="3" /> Munich <br/>  
<input type="radio" name="city" value="4" /> Madrid <br/>  
<input type="radio" name="city" value="5" /> Rome
```

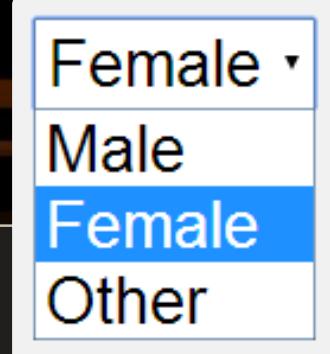
- Sofia
- London
- Munich
- Madrid
- Rome

- Only radio button from the group can be selected

Select / Option Fields

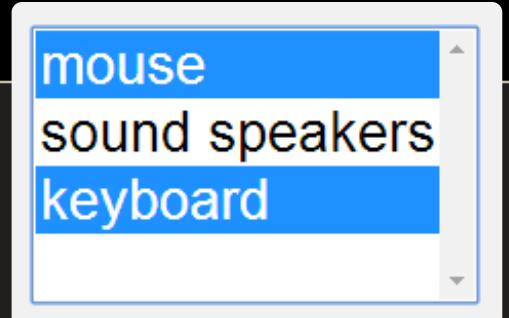
- Drop-down list:

```
<select name="gender">
  <option value="Value 1">Male</option>
  <option value="Value 2" selected="selected">Female</option>
  <option value="Value 3">Other</option>
</select>
```



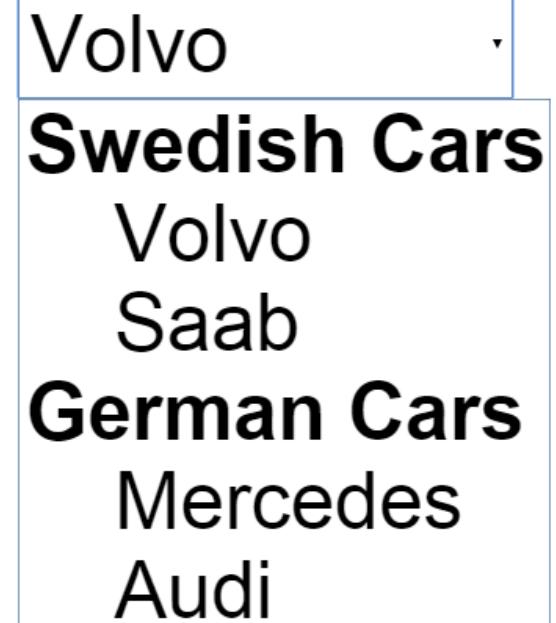
- Multiple-select list

```
<select name="products" multiple="multiple">
  <option value="202">mouse</option>
  <option value="171">sound speakers</option>
  <option value="146" selected="selected">keyboard</option>
</select>
```



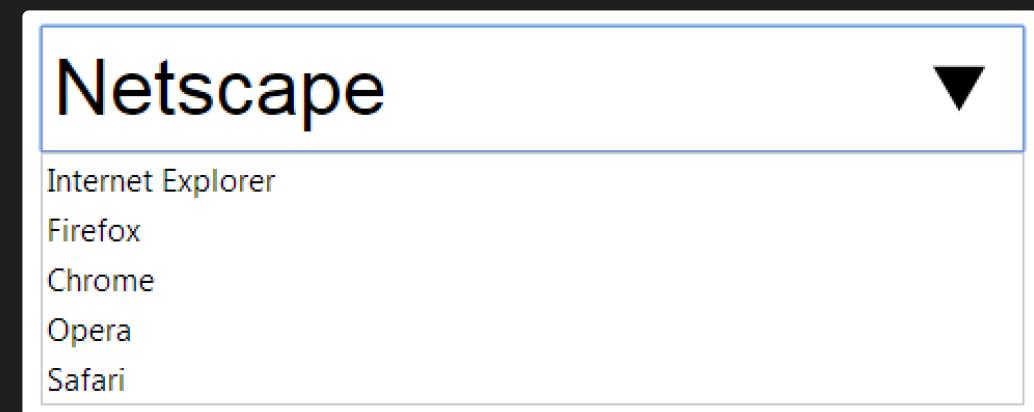
Select / Optgroup

```
<select>
  <optgroup label="Swedish Cars">
    <option value="volvo">Volvo</option>
    <option value="saab">Saab</option>
  </optgroup>
  <optgroup label="German Cars">
    <option value="mercedes">Mercedes</option>
    <option value="audi">Audi</option>
  </optgroup>
</select>
```



Data List

```
<input list="browsers" name="browser">  
  
<datalist id="browsers">  
  <option value="Internet Explorer">  
  <option value="Firefox">  
  <option value="Chrome">  
  <option value="Opera">  
  <option value="Safari">  
</datalist>
```



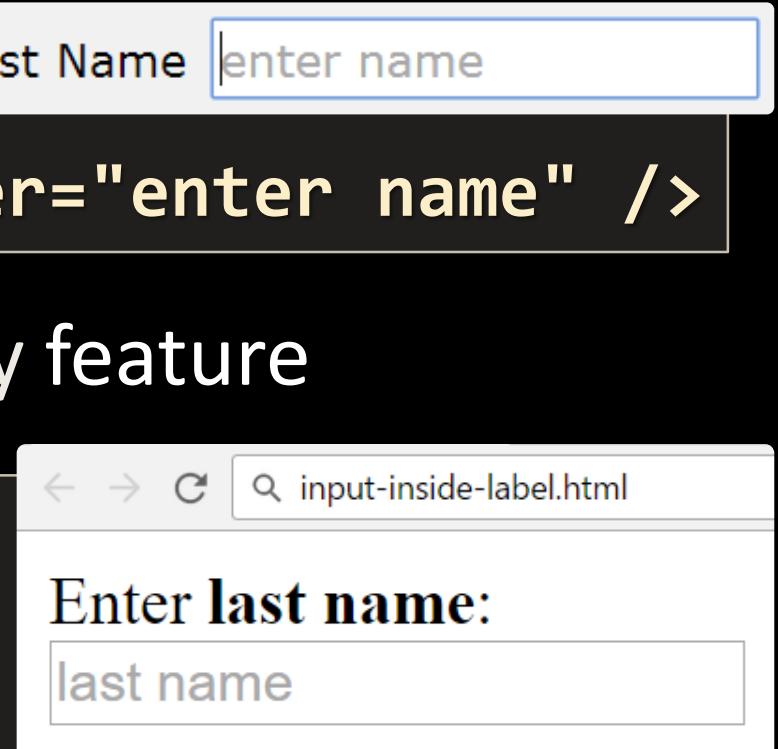
Labels

- Labels are associate an explanatory text to a form field

```
<label for="fn">First Name</label>
<input type="text" id="fn" placeholder="enter name" />
```

- Labels are both a usability and accessibility feature

```
<label>
  <div>Enter <b>last name</b>:</div>
  <input type="text"
    placeholder="last name" />
</label>
```



Fieldsets

- **<fieldset>** enclose a group of related form fields:

```
<form method="post" action="form.php">
  <fieldset>
    <legend>Customer Details</legend>
    <input type="text" name="fName" />
    <input type="text" name="lName" />
  </fieldset>
  <fieldset>
    <legend>Order Details</legend>
    <input type="text" name="quantity" />
    <textarea name="remarks"></textarea>
  </fieldset>
</form>
```

The image shows a web page with a form containing two fieldsets. The firstfieldset is titled "Customer Details" and contains two text input fields, one for the first name ("Svetlin") and one for the last name ("Nakov"). The secondfieldset is titled "Order Details" and contains a text input field with the value "2" and a text area with the text "Please ship after 11 am".

Problem: Contact Form

- Create a Contact Form like the screenshot below

The image displays two side-by-side screenshots of a "Contact Form" on a web browser. Both screenshots show the same form structure with the following fields:

- Your Name :** Your Full Name
- Your Email :** Valid Email Address
- Message :** Your Message to Us
- Subject :** Job Inquiry

Left Screenshot (Initial State): All fields contain placeholder text ("Your Full Name", "Valid Email Address", "Your Message to Us", "Job Inquiry").

Right Screenshot (Validation Errors): The "Your Name" and "Your Email" fields are highlighted in red. A red callout box with a yellow exclamation mark icon and the text "Please fill out this field." is positioned over the "Your Email" field.

Solution: Contact Form (HTML)

```
<form>
  <h1>Contact Form<span>Please fill all the
  texts...</span></h1>
  <label>
    <span>Your Name:</span>
    <input id="name" type="text" name="name"
      placeholder="Your Full Name" required/>
  </label>
  <label>
    <span>Your Email:</span>
    <input id="email" type="email" name="email"
      placeholder="Valid Email Address" required/>
  </label>
```

Solution: Contact Form (HTML)

```
<label>
  <span>Message :</span>
  <textarea id="message" name="message"
    placeholder="Your Message to Us"></textarea>
</label>
<label>
  <span>Subject:</span>
  <select name="selection">
    <option value="Job Inquiry">Job Inquiry</option>
    <option value="General Question">General Question</option>
  </select>
</label>
<input type="submit" class="button" value="Send" />
</form>
```



Solution: Contact Form (CSS)

```
* {box-sizing:border-box;}  
  
form {  
margin: 50px auto;  
max-width: 500px;  
background: #F7F7F7;  
padding: 0 15px 25px 10px;  
font-size:12px;  
font-family: Georgia,  
"Times New Roman",serif  
color: #888;  
text-shadow: 1px 1px 1px #FFF;  
border:1px solid #E4E4E4;}
```

```
h1 {  
font-size: 25px;  
padding: 0 0 10px 40px;  
display: block;  
border-bottom:  
1px solid #E4E4E4;  
color: #888; }  
  
h1 > span {  
display: block;  
font-size: 11px; }  
  
label {  
display: block;  
margin: 0; }
```

Solution: Contact Form (CSS)

```
label > span {  
    float: left;  
    width: 86px;  
    text-align: right;  
    padding-right: 10px;  
    margin-top: 10px;  
    color: #888; }  
  
input[type="text"], #email,  
textarea, select {  
    border: 1px solid #DADADA;  
    color: #888;  
    height: 30px;
```

```
margin-bottom: 16px;  
margin-right: 6px;  
margin-top: 2px;  
outline: 0 none;  
padding: 3px 3px 3px 5px;  
width: 323px;  
font-size: 12px;  
line-height: 15px; }  
  
textarea {  
    resize: none;  
    padding: 5px 3px 3px 5px;  
    height: 100px; }
```

Solution: Contact Form (CSS)

```
select { height: 35px; }

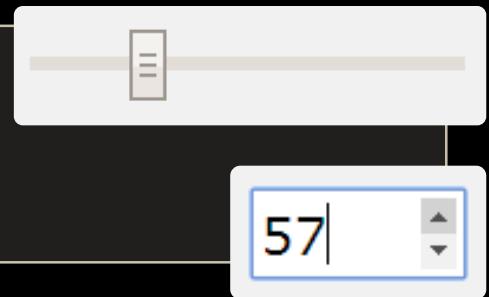
.button {
    background: #E27575;
    border: none;
    padding: 10px 25px 10px 25px;
    color: #FFF;
    box-shadow: 1px 1px 5px #B6B6B6;
    text-shadow: 1px 1px 1px #9E3F3F;
    border-radius: 3px;
    cursor: pointer;
    margin: 0 87px;
    width: 200px; }
```

The screenshot shows a web browser window displaying a contact form titled "Contact Form". The title is in bold black font at the top center. Below it is a sub-instruction: "Please fill all the texts in the fields." The form consists of four input fields: "Your Name" (text input), "Your Email" (text input), "Message" (text area), and "Subject" (dropdown menu). A large red button labeled "Send" is positioned below the subject field. The browser's address bar shows "contact-form.html".

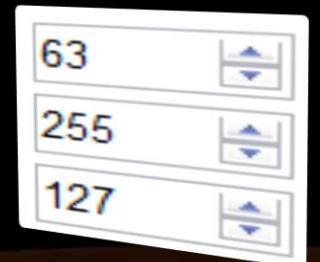
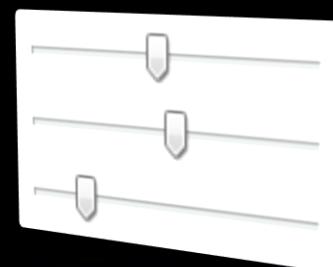
Range and Spinbox

- Range / number inputs restricts users to enter only numbers
 - Additional attributes **min**, **max**, **step** and **value**
 - Can become **spinbox** or **slider**, depending on the input type

```
<input type="range" min="0" max="100" />  
<input type="number" min="0" max="100" />
```



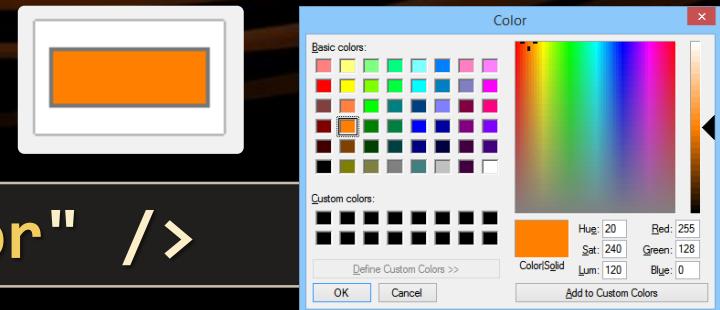
- May be displayed differently on different browsers
 - May not work in some browsers
(shown as normal text-boxes)



Other Input Types (1)

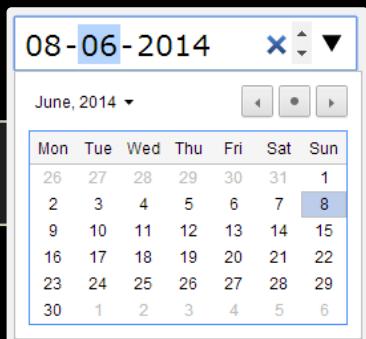
- Color picker

```
<input name="backgroundColor" type="color" />
```



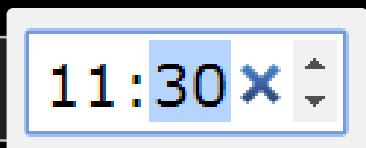
- Date picker

```
<input name="startDate" type="date" />
```



- Time picker

```
<input name="arrivalTime" type="time" />
```



- Date & time picker (combined)

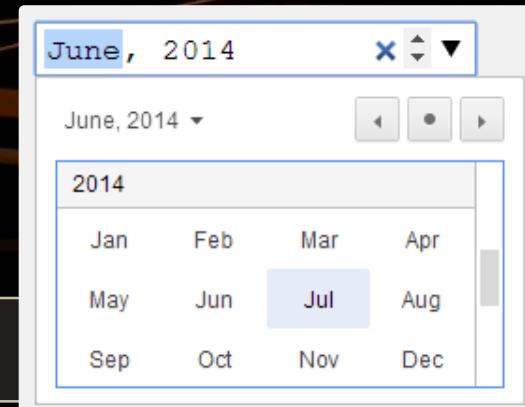
```
25 - Feb - 2017 23:24
```

```
<input name="departure" type="datetime-local" />
```

Other Input Types (2)

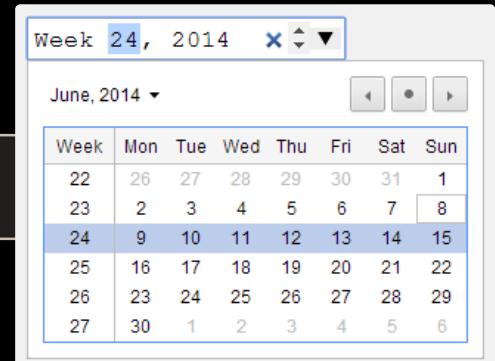
- Month + year selection

```
<input name="logo" type="month" />
```



- Week of the year selection

```
<input name="start" type="week" />
```



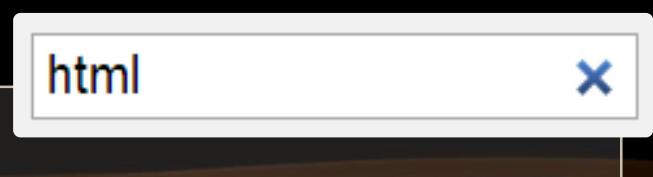
- File upload

```
<input name="start" type="file" />
```

Select a file: Choose File SoftUni-Logo.png

- Search box

```
<input name="searchQuery" type="search" />
```



HTML Forms Inputs Fields



Field Attributes for All Field Types

- **Autocomplete**

- Keep the previously typed values

```
<input type="text"  
name="fName"  
autocomplete="on" />
```

- **Readonly** – the field value cannot be changed

- **Autofocus**

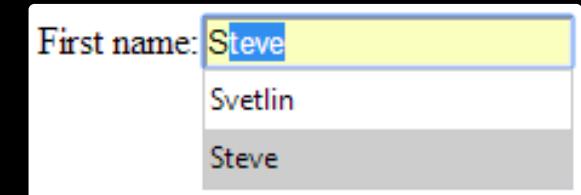
- The field becomes on focus on page load

```
<input type="text" name="firstName" autofocus="autofocus" />
```

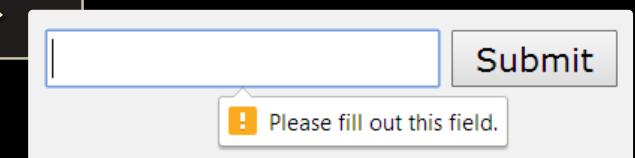
- **Required**

```
<input type="text" required="true"/>
```

- The field is required to be filled / selected



A screenshot of a web browser showing an input field with the placeholder "First name:" and the value "Steve". An open dropdown menu below the input field shows two suggestions: "Svetlin" and "Steve".



A screenshot of a web browser showing an empty input field with a red border. Below the input field, an error message box displays the text "Please fill out this field." with an exclamation mark icon.

Input Fields with Validation

- Email – simple validation for emails

```
<input type="email" required="true" />
```

A screenshot of a web form showing validation for an email input field. The input field contains the text "hello". To its right is a "Submit" button. Below the input field is a yellow warning box containing the text: "Please include an '@' in the email address. 'hello' is missing an '@'." A small exclamation mark icon is also present in the top-left corner of the box.

- URL – validation for URL addresses

```
<input type="url" required="true" />
```

A screenshot of a web form showing validation for a URL input field. The input field contains the text "hello". To its right is a "Submit" button. Below the input field is a yellow warning box containing the text: "Please enter a URL." A small exclamation mark icon is also present in the top-left corner of the box.

- Telephone – validation for phone numbers

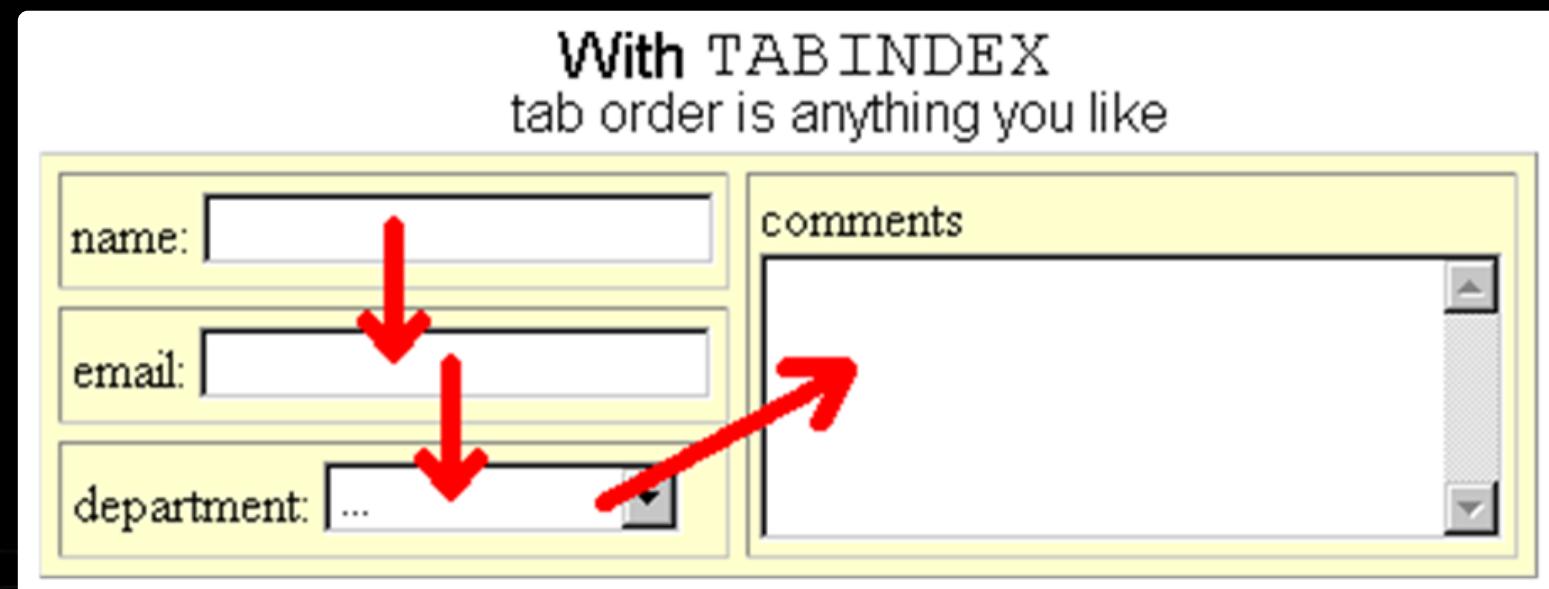
```
<input type="tel" required="true" />
```

A screenshot of a web form showing validation for a telephone input field. The input field contains the text "+359 888 123 456".

Tab Index

- The **tabindex** controls the order in which form fields and hyperlinks are focused when pressing the [TAB] key

```
<input type="text" name="second" tabindex="10" />  
<input type="text" name="first" tabindex="5" />
```



Problem: Arranging the Widths

The screenshot shows a web browser window with the URL 'arranging-the-widths.html' in the address bar. The page title is 'Rent Audi Vehicles'. The form contains the following fields:

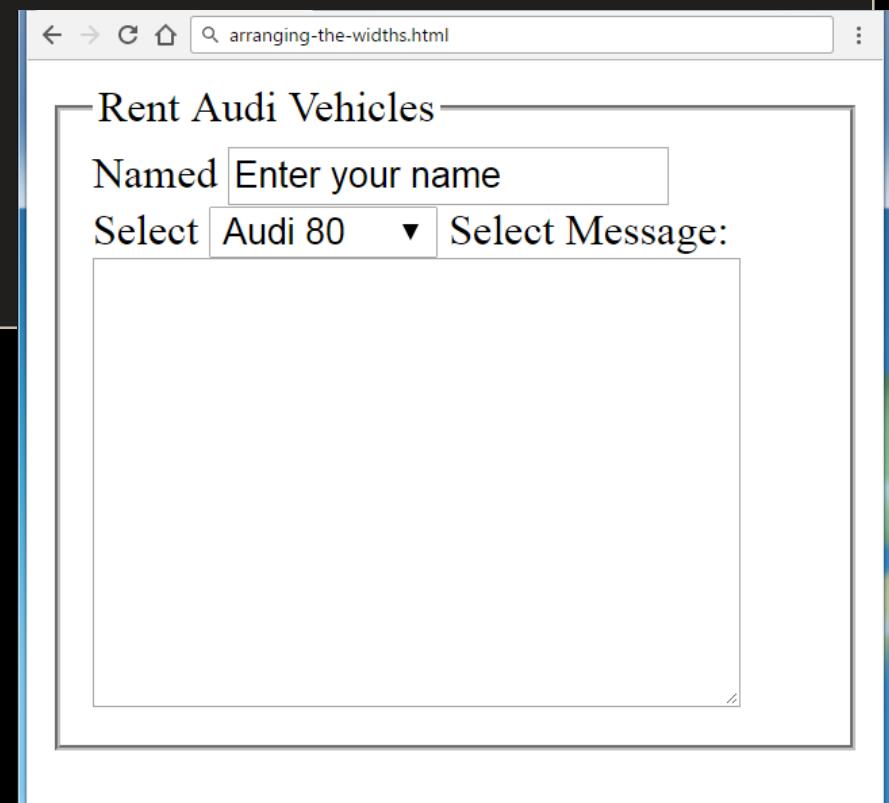
- A text input field labeled 'Named' with the placeholder 'Enter your name'.
- A dropdown menu labeled 'Select' containing the option 'Audi 80'.
- A text input field labeled 'Select'.
- A text input field labeled 'Message:' which is currently empty.

Problem: Arranging the Widths (HTML)

```
<form action="#">
<fieldset>
  <legend> Rent Audi Vehicles</legend>
  <label for="name"> Named</label>
  <input type="text" value="Enter your name" id="name">
  <label for="select">Select</label>
  <select id="select">
    <option>Audi 80</option>
    <option>Audi 90</option>
    <option>Audi RS 6</option>
    <option>Audi S8</option>
  </select>
```

Problem: Arranging the Widths

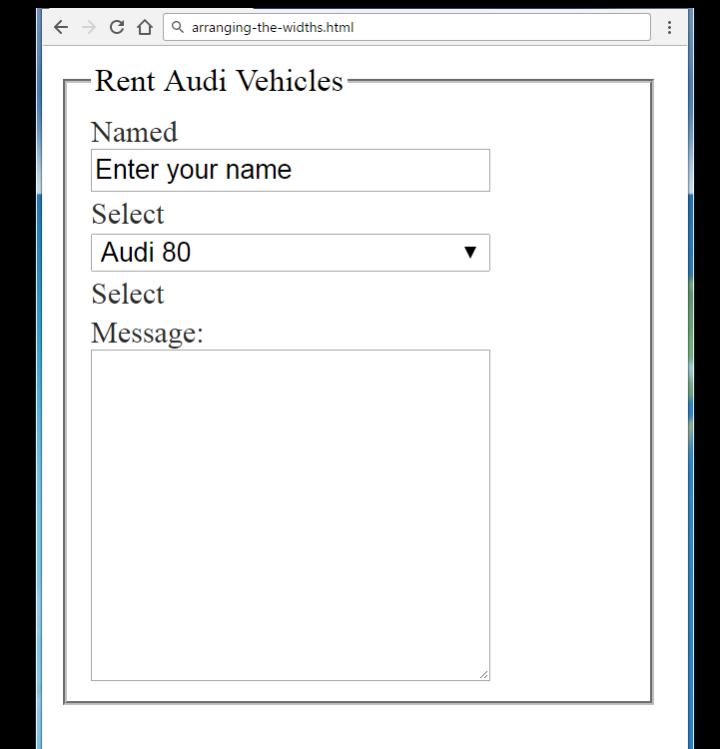
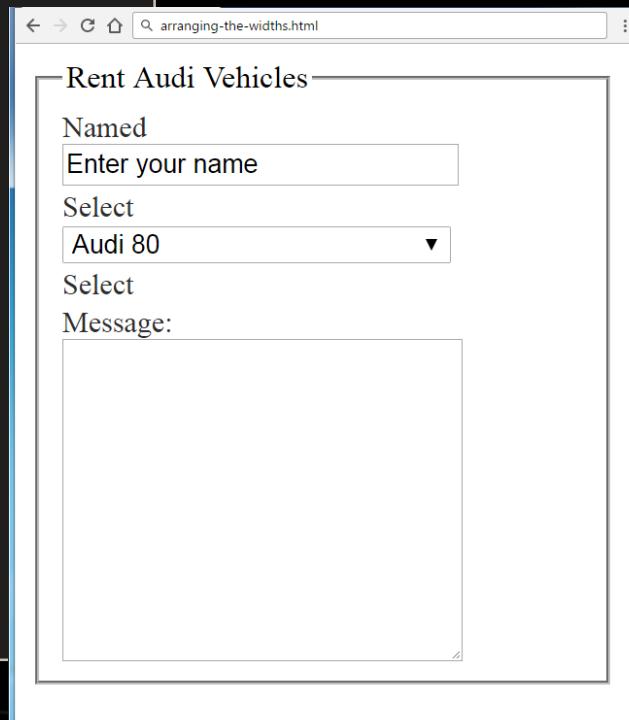
```
<label>Select</label>
<label for="text">Message:</label>
<textarea name="name" id="text"
  cols="30" rows="10"></textarea>
</fieldset>
</form>
```



Problem: Arranging the Widths (CSS)

```
form {width: 300px;}  
form, input, textarea {  
    box-sizing: border-box;}  
  
label, input, select, textarea {  
    display: inline-block;  
    width: 200px;  
    vertical-align: middle;}  
  
label {  
    color: #2D2D2D;  
    font-size: 15px;  
    word-wrap: break-word;}
```

```
form, input, textarea {  
    box-sizing: border-box;}
```



Summary

- HTML Forms

```
<form method="POST" action="..."> ... </form>
```

- Text Field

```
<input type="text"/>
```

```
<input type="password"/>
```

- Buttons

```
<input type="reset"/>
```

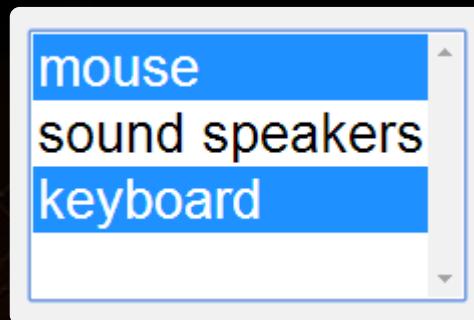
```
<input type="submit"/>
```

- Checkboxes and Radio Buttons

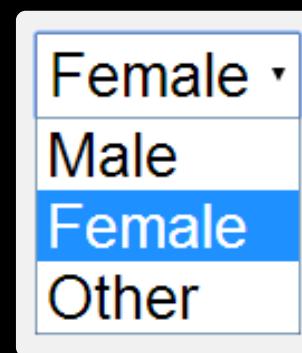
<input type="radio"/>	Sofia
<input checked="" type="radio"/>	London
<input type="radio"/>	Munich
<input type="radio"/>	Madrid
<input type="radio"/>	Rome

<input checked="" type="checkbox"/>	I agree
-------------------------------------	---------

- Select / Option Fields



mouse
sound speakers
keyboard



Female
Male
Female
Other



HTML Forms and Styling



Questions?

