

# HTML Forms and Styling

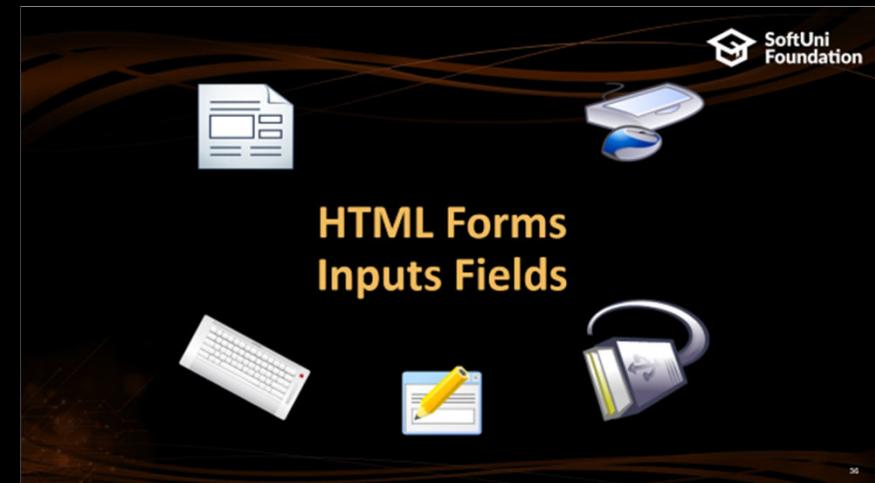
Forms, Controls, Fields, Inputs,  
Submission, Validation



**SoftUni Team**  
**Technical Trainers**  
**Software University**  
<http://softuni.bg>



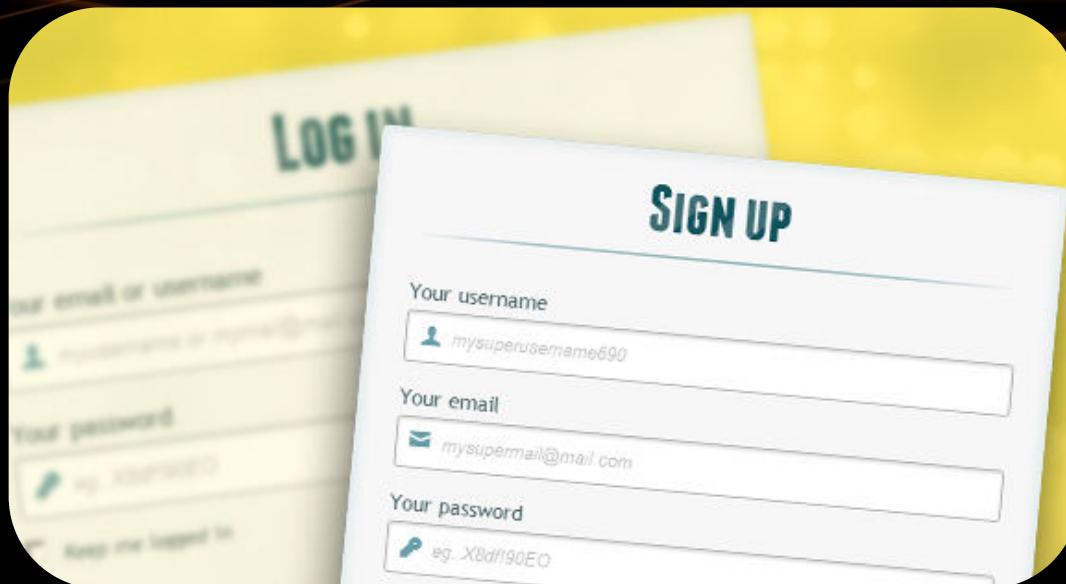
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Have a Question?



sli.do  
**#front-end**



# 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

- Learn how to send HTML forms: <https://developer.mozilla.org/en-US/docs/Learn/HTML/Forms>

# Text Fields

- Single-line text input fields:

Last name: Nakov

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

- Multi-line text input fields (textarea):

This is  
a multi-line text field

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

- Password input – masks the text with \*

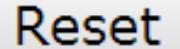
Password: ••••••••••

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

# Buttons

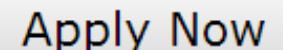
- Reset button – resets all form fields

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



- Submit button – sends the form data to the server

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

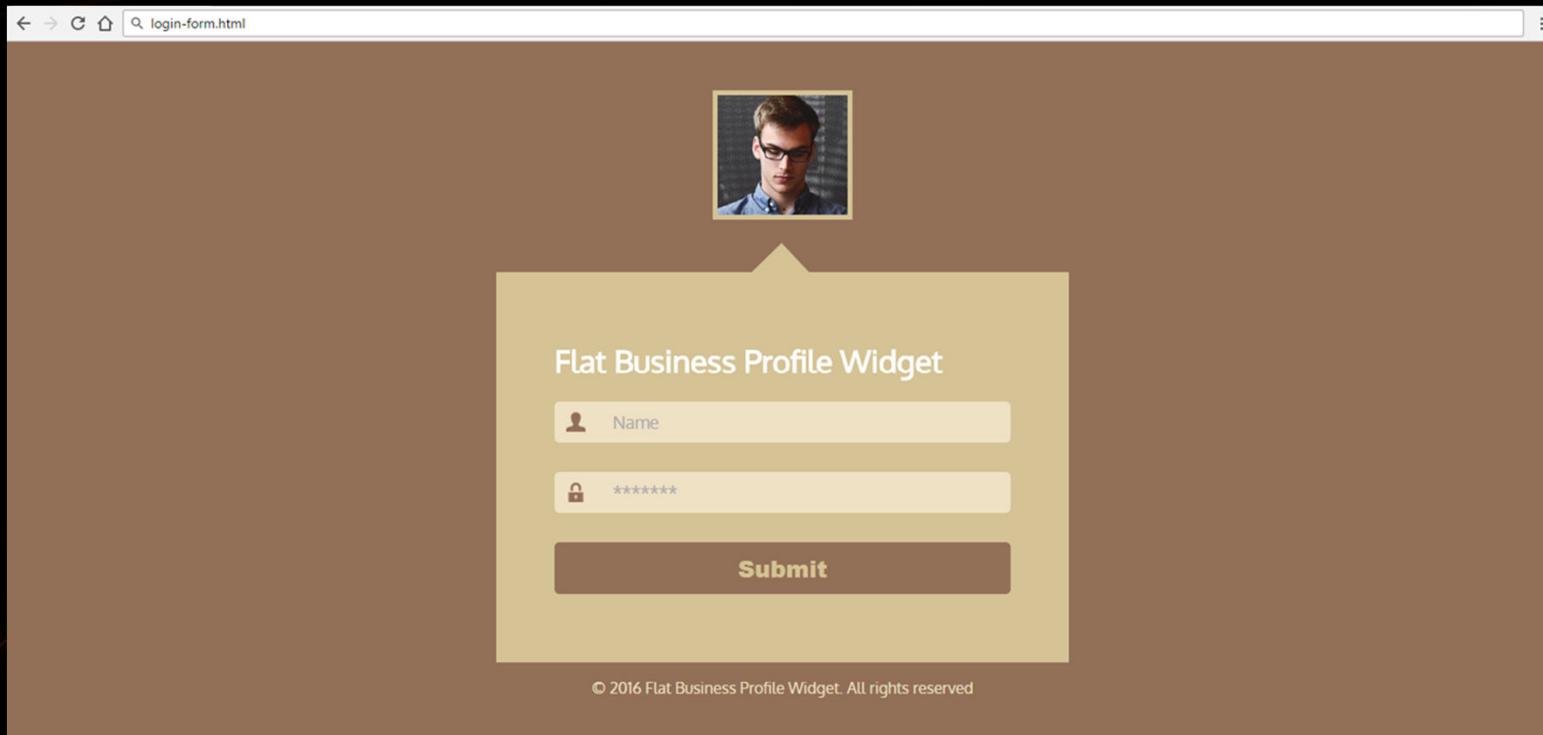


```
<button>Click <b>Me</b></button>
```



# Problem: Login Form (Images)

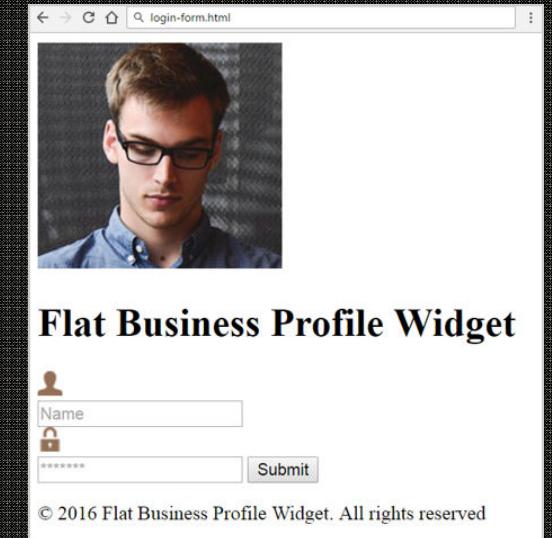
- Create Login Form like the screenshot below



Check your solution here: <https://judge.softuni.bg/Contests/409/>

# 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) (2)

```
<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; }

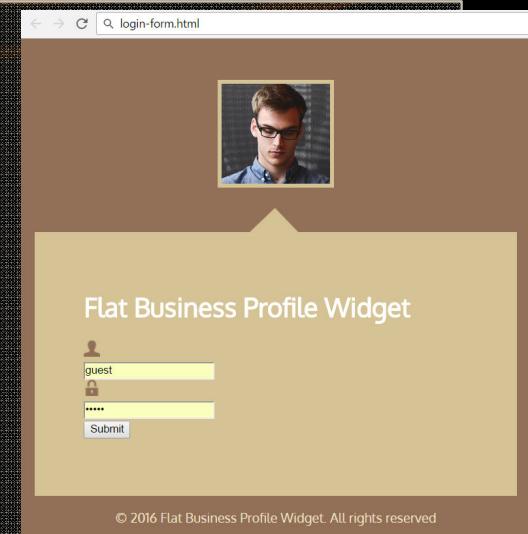
.image-container > img {
    border: 5px solid #d5c395;
    height: 123px; }
```



# Solution: Login Form (CSS) (2)

```
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) (3)

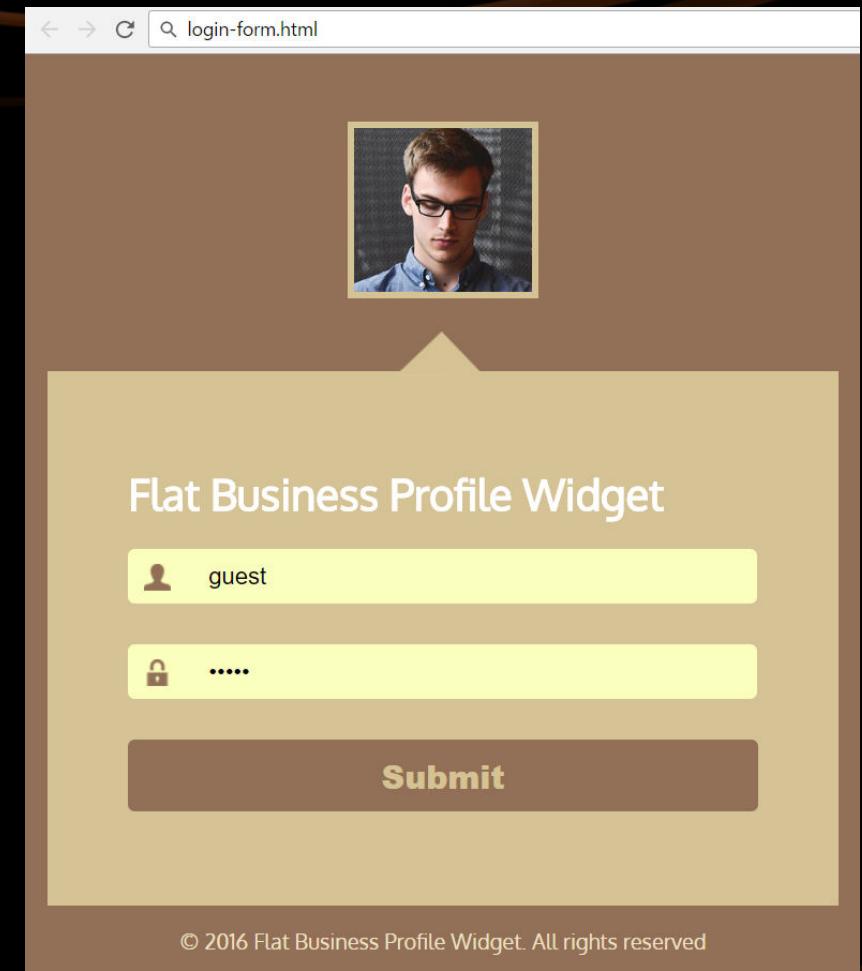
```
.name, .pass {  
    outline: none;  
    border: none;  
    background: #efe1c4;  
    padding: 10px 10px  
10px 60px;  
    width: 85%;  
    font-size: 1.1em;  
    color: #927057;  
    border-radius: 5px;  
    margin-bottom: 30px;  
}
```

```
.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; }
```



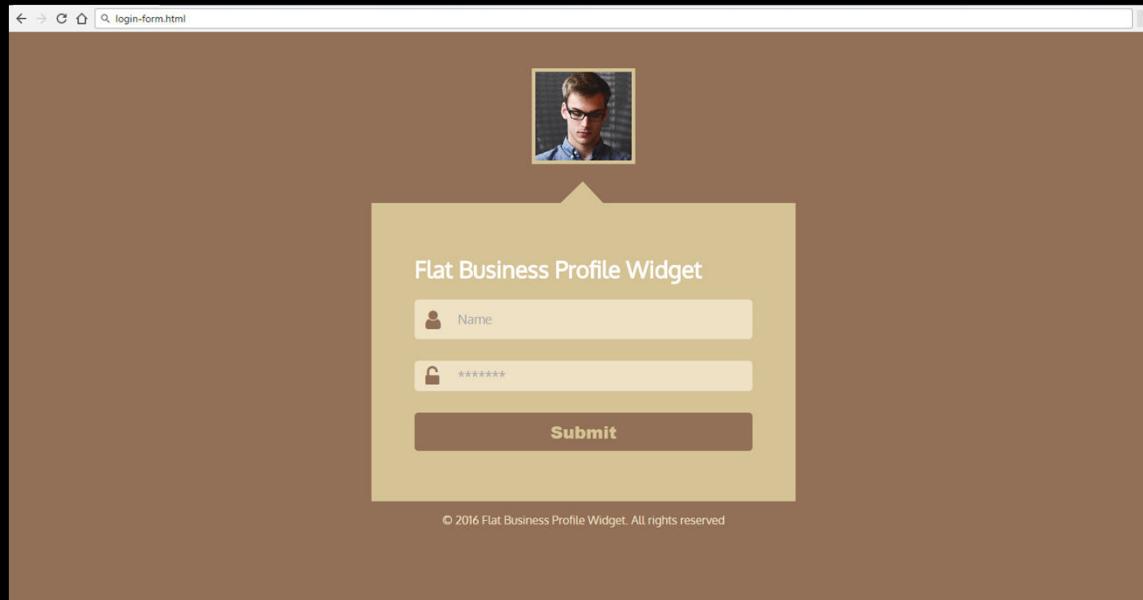
# Solution: Login Form (CSS) (4)

```
.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)

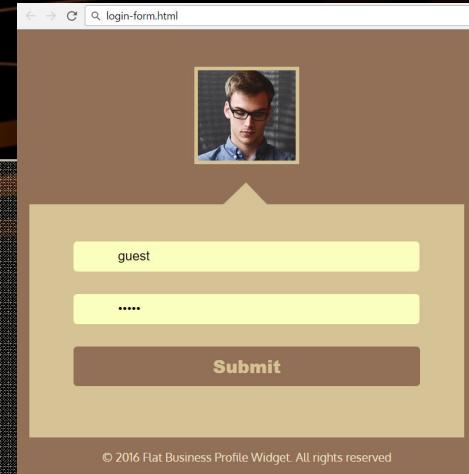
- Create Login Form like the screenshot below
  - Use Font Awesome for the form fields icons



Check your solution here: <https://judge.softuni.bg/Contests/409/>

# Solution: Login Form (HTML)

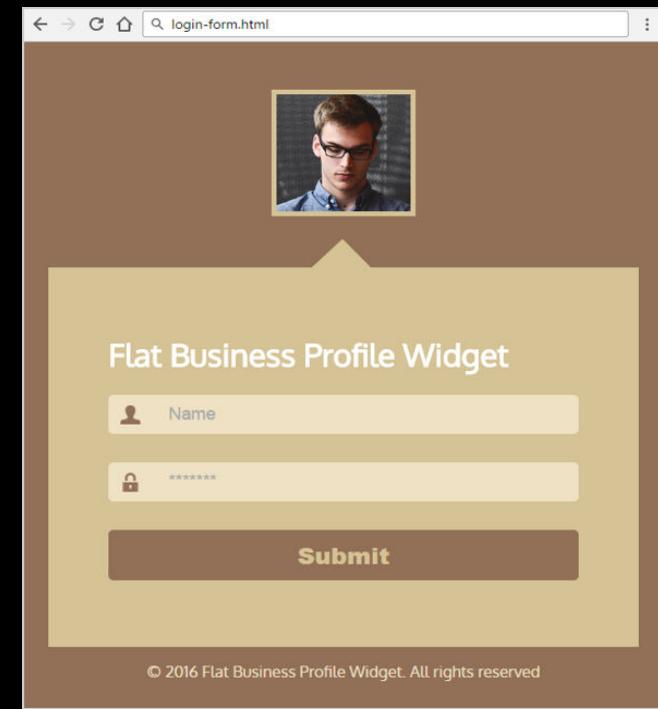
```
<form action="#">
  <div class="form-field">
    <input type="text" placeholder="Name"
           class="name">
    <i class="fa fa-user" aria-hidden="true"></i>
  </div>
  <div class="form-field">
    <input type="password" placeholder="*****" class="pass">
    <i class="fa fa-unlock-alt" aria-hidden="true">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



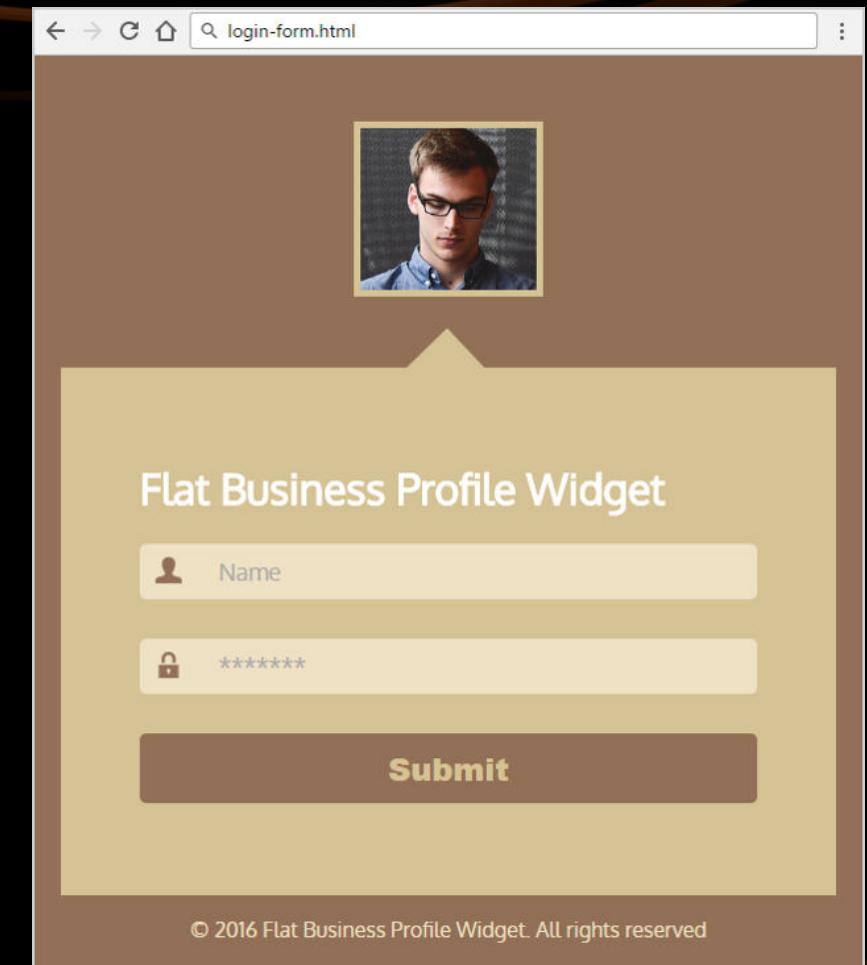
# Solution: Login Form (HTML)



```
<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)

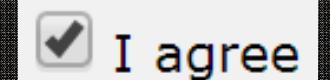
```
.pass {  
background: url(img/pass.png)  
no-repeat 12px 10px #efe1c4;  
}  
  
.name {  
background: url(img/user.png)  
no-repeat 12px 10px #efe1c4;  
}
```



# 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
```

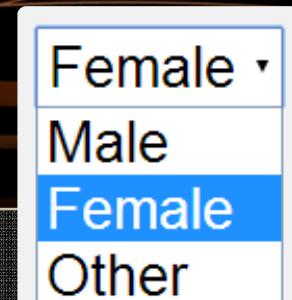
- |                                  |        |
|----------------------------------|--------|
| <input type="radio"/>            | Sofia  |
| <input checked="" type="radio"/> | London |
| <input type="radio"/>            | Munich |
| <input type="radio"/>            | Madrid |
| <input type="radio"/>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

- Only radio button from the group can be selected

# Select / Option Fields

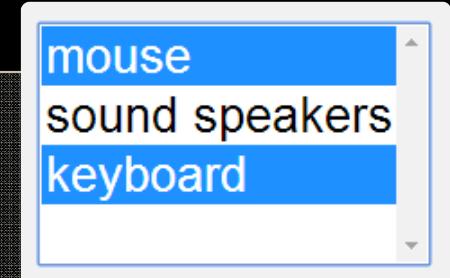
- Drop-down list:

```
<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>
```



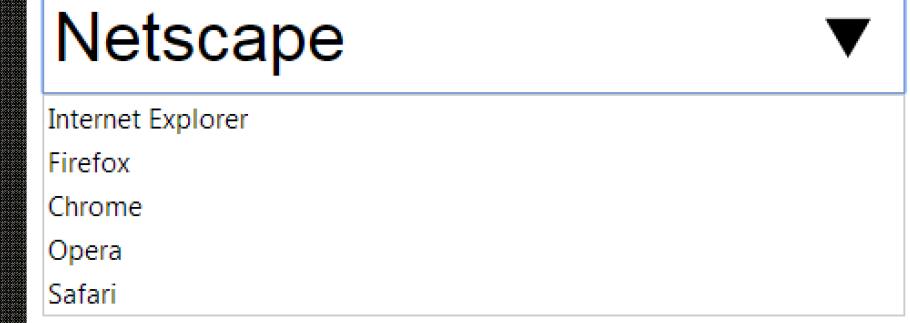
# Select / Optgroup

```
<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>
```

Volvo  
Swedish Cars  
Volvo  
Saab  
**German Cars**  
Mercedes  
Audi

# 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>
```



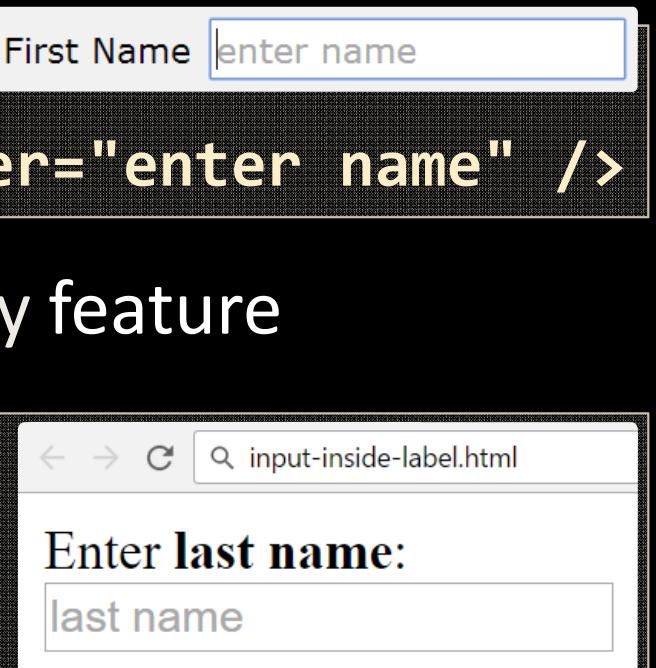
# Labels

- 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

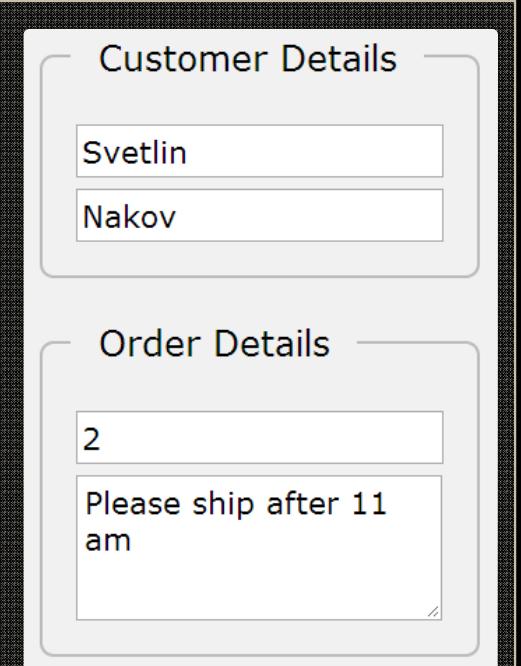
```
<label>
  <div>Enter <b>last name</b>:</div>
  <input type="text"
    placeholder="last name" />
</label>
```



# Fieldsets

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

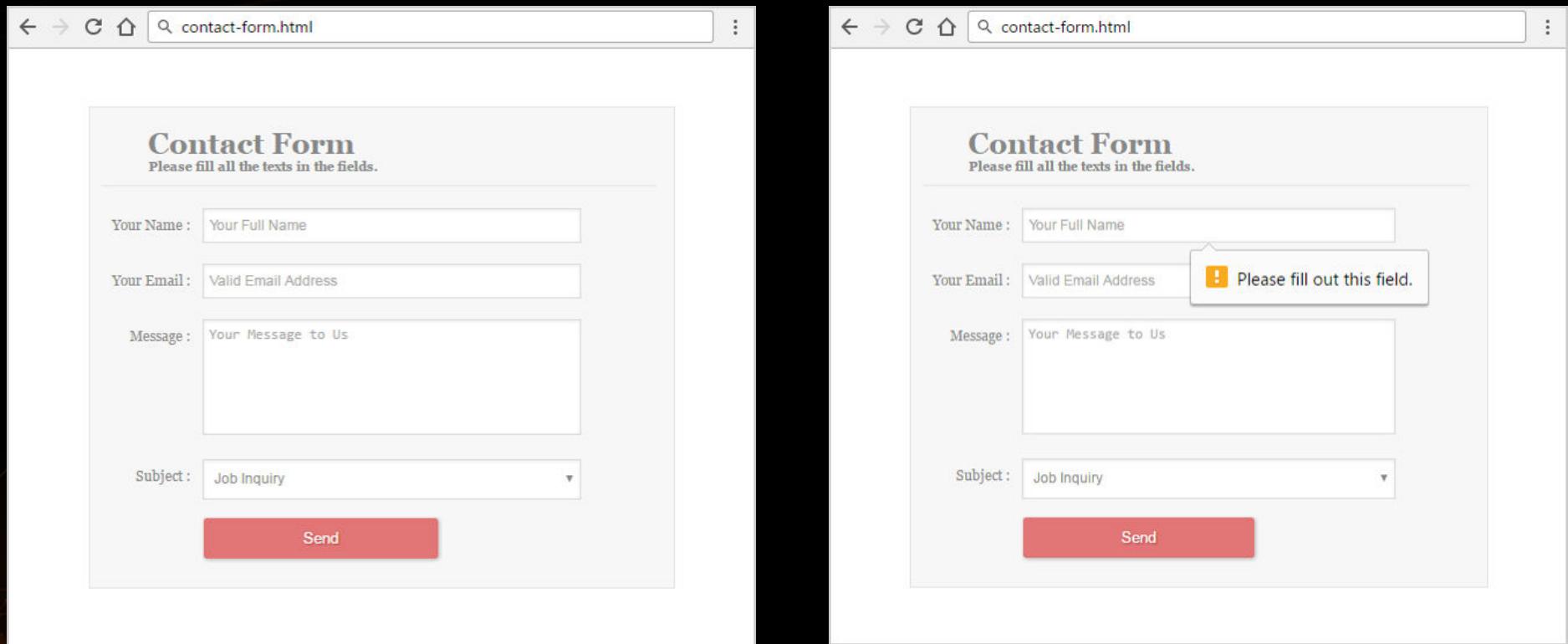
```
<form method="post" action="form.php">
  <fieldset>
    <legend>Customer Details</legend>
    <input type="text" name="fName" />
    <input type="text" name="lName" />
  </fieldset>
  <fieldset>
    <legend>Order Details</legend>
    <input type="text" name="quantity" />
    <textarea name="remarks">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



The screenshot shows a web form with two fieldsets. The firstfieldset, titled "Customer Details", contains two text input fields. The first field has the value "Svetlin" and the second has "Nakov". The secondfieldset, titled "Order Details", contains two text input fields. The first field has the value "2" and the second has 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" in a web browser window. Both screenshots show the same form structure: "Your Name" (text input), "Your Email" (text input), "Message" (text area), and "Subject" (dropdown menu). A red "Send" button is at the bottom.

In the left screenshot, all fields are empty and appear normal.

In the right screenshot, the "Your Email" field contains the placeholder "Valid Email Address". An orange callout bubble with a warning icon and the text "Please fill out this field." is positioned above the "Your Email" input field.

Check your solution here: <https://judge.softuni.bg/Contests/409/>

# 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) (2)

```
<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>
```

Contact Form Please fill all the texts in the fields.

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

# 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) (2)

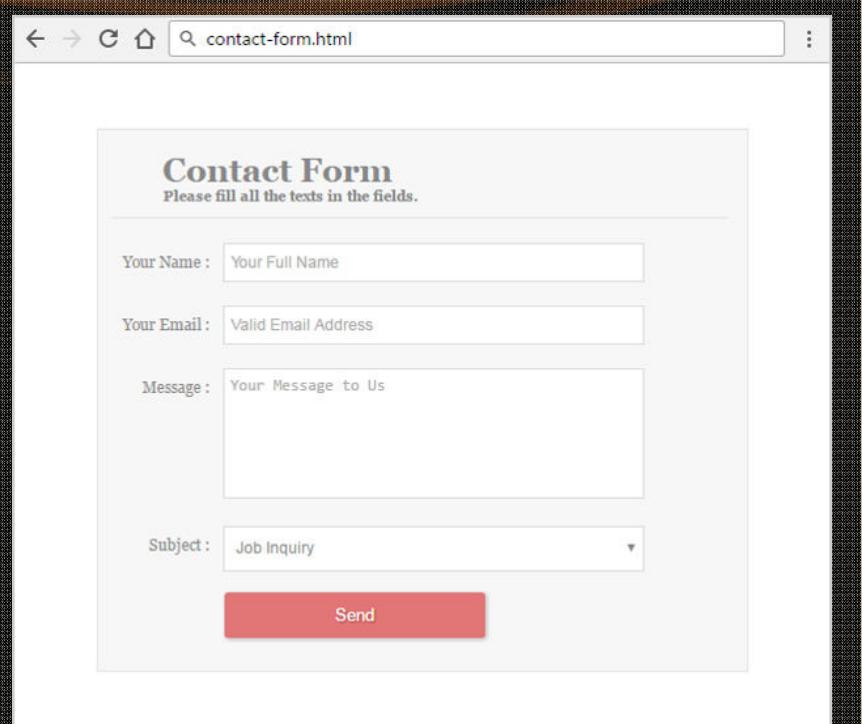
```
label > span {  
    float: left;  
    width: 86px;  
    text-align: right;  
    padding-right: 10px;  
    margin-top: 10px;  
    color: #888; }  
  
input[type="text"], #email,  
textarea, select {  
    border: 1px solid #DADADA;  
    color: #888;  
    height: 30px;
```

```
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) (3)

```
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; }
```

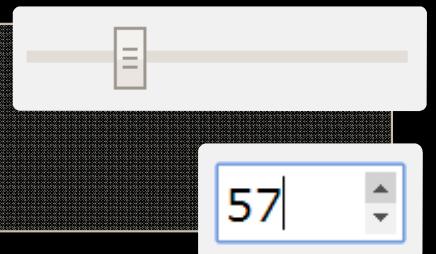


The screenshot shows a web browser window with the URL "contact-form.html" in the address bar. The page title is "Contact Form" and it includes a sub-instruction "Please fill all the texts in the fields." There are four input fields: "Your Name" (placeholder: "Your Full Name"), "Your Email" (placeholder: "Valid Email Address"), "Message" (placeholder: "Your Message to Us"), and "Subject" (placeholder: "Job Inquiry"). A large red "Send" button is located at the bottom right of the form area.

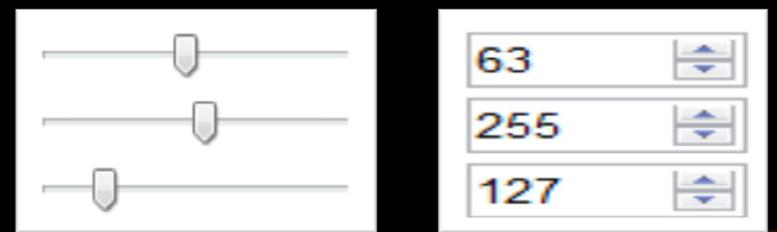
# Range and Spinbox

- 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" />
```

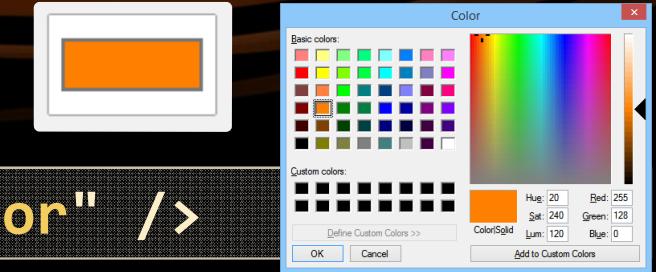


- May be displayed differently on different browsers
  - May not work in some browsers  
(shown as normal text-boxes)



# Other Input Types

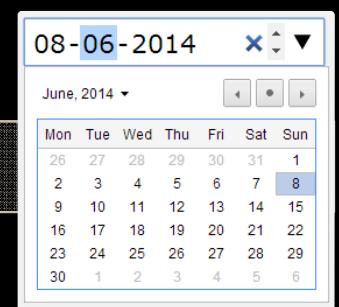
- Color picker



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

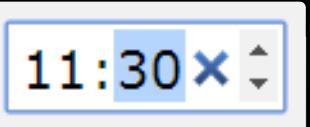
- Date picker

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



- Time picker

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



- Date & time picker (combined)

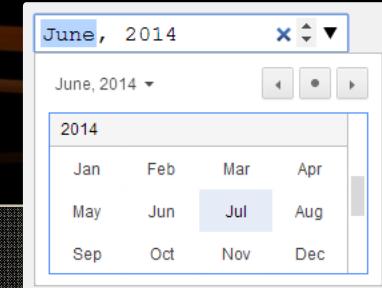
```
25 - Feb - 2017 23:24 x ▲ ▼
```

```
<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" />
```

Week 24, 2014						
	Mon	Tue	Wed	Thu	Fri	Sat
22	26	27	28	29	30	31
23	2	3	4	5	6	7
24	9	10	11	12	13	14
25	16	17	18	19	20	21
26	23	24	25	26	27	28
27	30	1	2	3	4	5

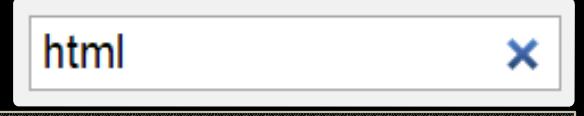
- File upload

```
<input name="start" type="file" /> Select a file: Choose File SoftUni-Logo.png
```



- Search box

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





# HTML Forms

Create and edit input fields

# Field Attributes for All Field Types

## ■ Autocomplete

- Keep the previously typed values

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

First name:

Svetlin
Steve

## ■ 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

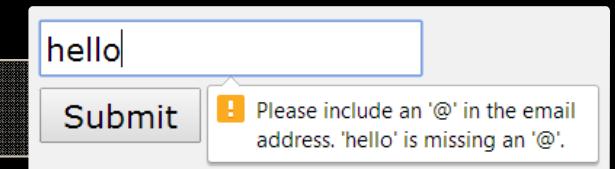
Submit

 Please fill out this field.

# Input Fields with Validation

- Email – simple validation for emails

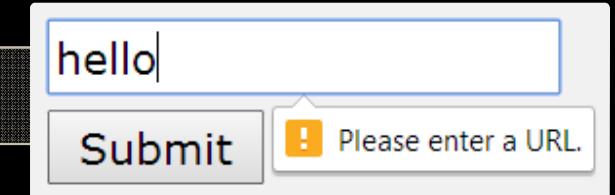
```
<input type="email" required="true" />
```



A screenshot of a web form showing validation for an email input field. The input field contains the text "hello". Below it is a "Submit" button. To the right, a tooltip-style message box appears with an exclamation mark icon and the text "Please include an '@' in the email address. 'hello' is missing an '@'.".

- URL – validation for URL addresses

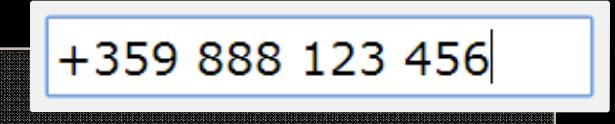
```
<input type="url" required="true" />
```



A screenshot of a web form showing validation for a URL input field. The input field contains the text "hello". Below it is a "Submit" button. To the right, a tooltip-style message box appears with an exclamation mark icon and the text "Please enter a URL".

- 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".

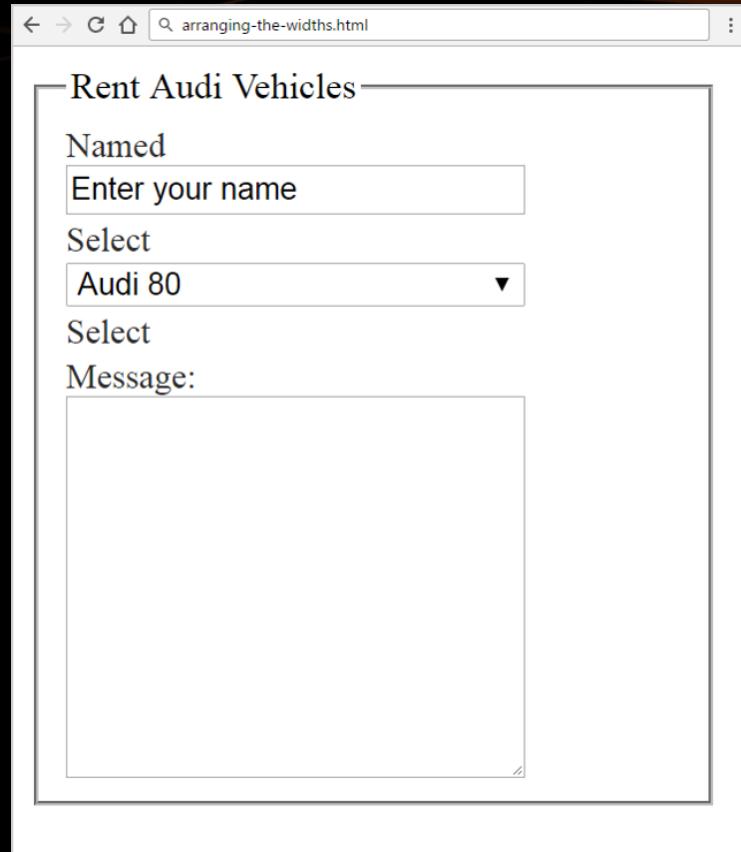
# Tab Index

- 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 area labeled "Message:".

Check your solution here: <https://judge.softuni.bg/Contests/409/>

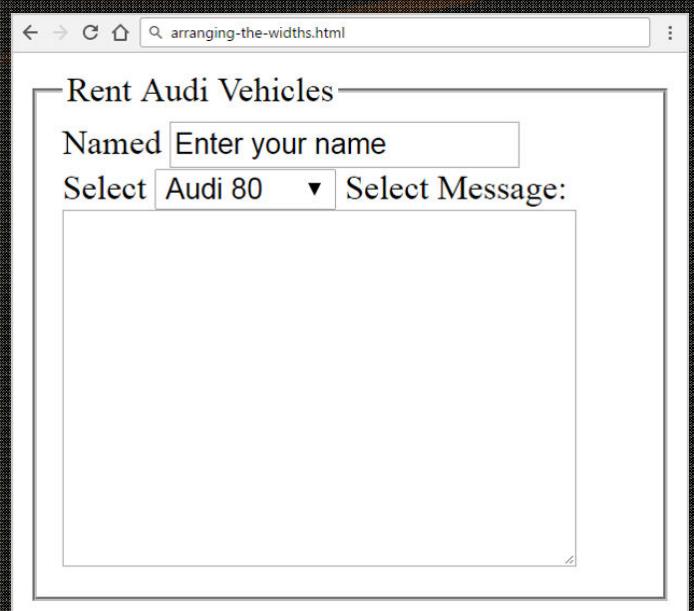
# Solution: Arranging the Widths (HTML)



```
<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>
```

# Solution: Arranging the Widths (HTML) (2)

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

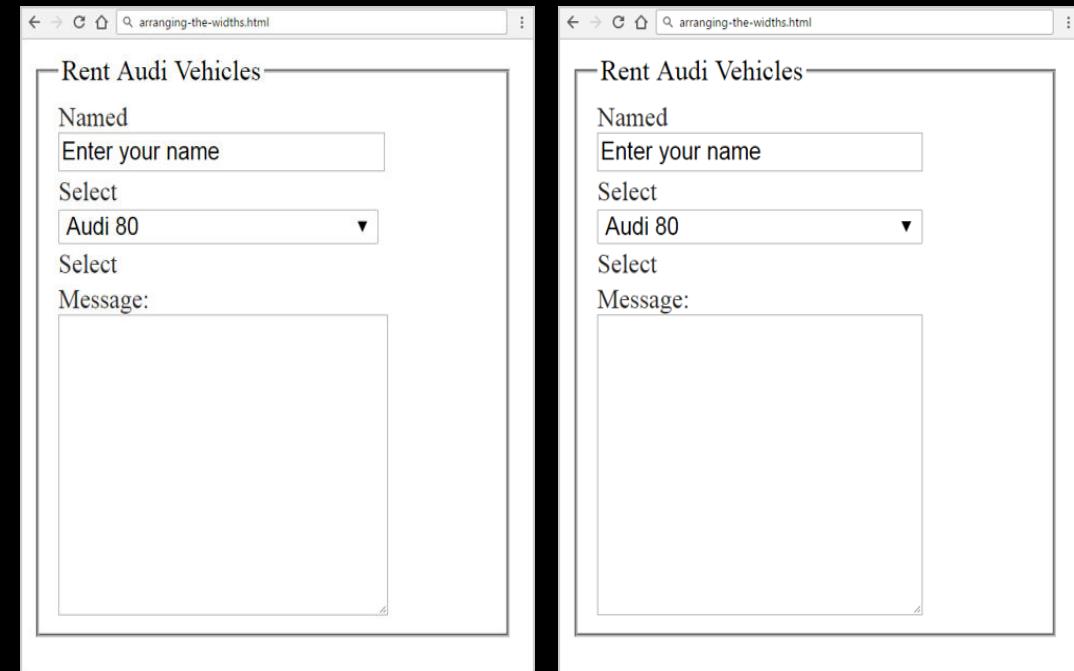


The screenshot shows a web browser window with the title "arranging-the-widths.html". The page content is titled "Rent Audi Vehicles". It contains two input fields: a text input labeled "Named" with the placeholder "Enter your name" and a dropdown menu labeled "Select" with the option "Audi 80". To the right of these inputs is a label "Select Message:" followed by a large, empty text area.

# Solution: Arranging the Widths (CSS)

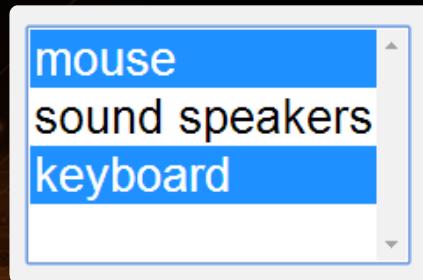
```
form { width: 300px; }  
form, input, textarea {  
    box-sizing: border-box; }  
label, input, select, textarea {  
    display: inline-block;  
    width: 200px;  
    vertical-align: middle; }  
label {  
    color: #2D2D2D;  
    font-size: 15px;  
    word-wrap: break-word; }
```

```
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
- Select / Option Fields



Female ▾  
Male  
Female  
Other

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

I agree

Summary



# Web Fundamentals – Course Introduction



## Questions?



<https://softuni.bg/courses/web-fundamentals-html5>

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