

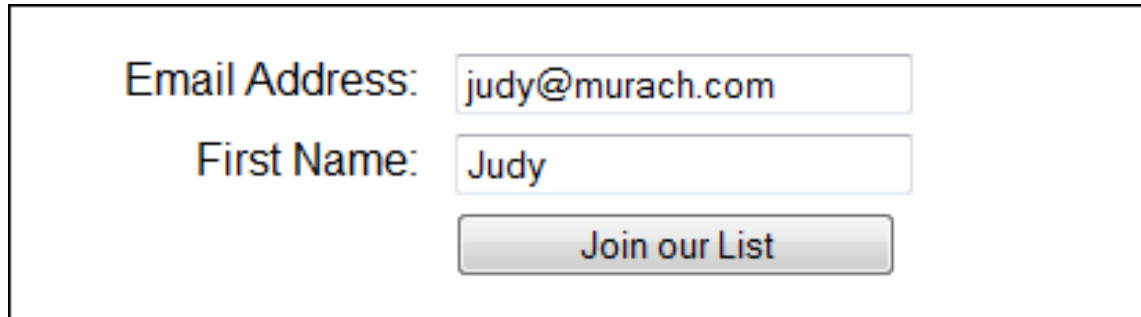
## Chapter 10

# How to work with forms and data validation

# **Section 10-10**

## **HTML Form Validation with HTML5 controls**

## A form in a web browser



Email Address:

First Name:

## The HTML for the form

```
<form id="email_form" name="email_form" action="join.php"
  method="POST">
  <label for="email_address">Email Address:</label>
  <input type="text" id="email_address" name="email_address">
  <br>
  <label for="first_name">First Name:</label>
  <input type="text" id="first_name" name="first_name">
  <br>
  <label>&nbsp;  </label>
  <input type="submit" id="join_list" value="Join our List">
  <br>
</form>
```

**... normally forms are submitted from a page  
with a SUBMIT button using Method="POST"**

## Attributes of the form element

Attribute	Description
<b>name</b>	A name that can be referred to by client-side or server-side code.
<b>action</b>	The URL of the file that will process the data in the form.
<b>method</b>	The HTTP method for submitting the form data. It can be set to either “get” or “post”. The default value is “get”.  ... but normally, a form is submitting from a page that use the POST method!

## The jQuery methods for getting, setting, and trimming control values

`val()`

`val(value)`

`trim()`

## How to get the value of a numeric entry from a text box

```
var age = parseInt($("#age").val());
```

## How to trim the value of an entry and put it back into the same text box

```
var firstName = $("#first_name").val().trim();  
$("#first_name").val(firstName);
```

## HTML5 controls for input data

email - gets an email address with validation  
url - gets a URL with validation  
tel - gets a phone number (no validation)  
number - gets a numeric entry (+ more)  
range - gets a numeric entry (+ more)  
date - gets a date entry (+ more)  
time - gets a date entry (+ more)



# HTML5 Email Validation

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Email Validation Example</title>
</head>

<body>

<form method="post" action="myprogram.php">
    <input type="email" placeholder="me@example.com">
    <input type="submit">
</form>

</body>
</html>
```

# HTML5 Number Validation (Chrome, not FF)

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Email Validation Example</title>
</head>

<body>

<form method="post" action="myprogram.php">
    Age: <input type="number" size="6" name="age">
    <input type="submit">
</form>

</body>
</html>
```

## The primary HTML5 attributes for working with forms

<code>autofocus</code>	- Boolean true when has focus
<code>placeholder</code>	- A message is removed when has focus
<code>required</code>	- true for required field
<code>title</code>	- title is shown in tooltip
<code>pattern</code>	- regular expression validation

# HTML5 Required Validation

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Email Validation Example</title>
</head>

<body>

<form method="post" action="myprogram.php">
    Age: <input type="number" size="6" name="age" required>
    <input type="submit">
</form>

</body>
</html>
```

## The HTML for the form – with Validations

```
<form id="email_form" name="email_form" action="join.php"
  method="POST">
  <label for="email_address">Email Address:</label>
  <input type="email" id="email_address" name="email_address"
    required>
  <br>
  <label for="first_name">First Name:</label>
  <input type="text" id="first_name" name="first_name"
    required>
  <br>
  <label>&nbsp;</label>
  <input type="submit" id="join_list" value="Join our List">
  <br>
</form>
```

... normally forms are submitted from a page  
with a SUBMIT button with a method="POST"

# DEMO: Simple Form Example

**Simple Form**  
Email Address:   
First Name:

# Exercise 10-1

- Do the exercises for this section  
(shown to the right for the link to this presentation)

# **Section 10-20**

## **More Form Validation**



# The jQuery selectors for form controls

`:input`

`:text`

`:radio`

`:checkbox`

`:file`

`:password`

`:submit`

`:reset`

`:image`

`:button`

`:disabled`

`:enabled`

`:checked`

`:selected`

## How to get the value of the checked radio button in a group

```
var radioButton =  
    $( "input[name='contact_by']:checked" ).val( );
```

## How to get an array of the selected options from a list

```
var selectOptions = [];  
    selectOptions = $("#select_list :selected");
```

## How to see if a particular checkbox is checked

```
if( $("#Student").is( ':checked' ) )  
{  
    alert("I am checked");  
}
```

For this HTML...

```
<input type="checkbox" id="Student"> Student
```

# The jQuery event methods for forms

`focus(handler)`

`blur(handler)`

`change(handler)`

`select(handler)`

`submit(handler)`

# The jQuery methods for triggering events

`focus()`

`blur()`

`change()`

`select()`

`submit()`

# DEMO: Complex Form Example

**Complex Form**

First Name:

☐ Phone

☐ Fax

☐ Email

# Exercise 10-2

- Do the exercises for this section  
(shown to the right for the link to this presentation)



# End of Lesson