



Web Application Development

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Agenda

01 HTML Table

02 HTML Class Vs. ID

03 HTML Inline Vs. Block level elements

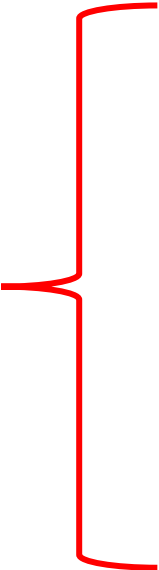
04 HTML Escaping Chars

05 HTML Forms



Tables

<table>



Name	Department	University
Sara	CS	Mansoura
Ahmed	BIS	Tanta
Mohamed	IS	Cairo
Rana	IT	Banha

</table>

Tables

`<table>`

`<tr>`

`</tr>`

`</table>`

Name	Department	University
Sara	CS	Mansoura
Ahmed	BIS	Tanta
Mohamed	IS	Cairo
Rana	IT	Banha

Tables

`<table>`

`<tr>`

`<th> Name </th>`

`</tr>`

`</table>`

Name	Department	University
Sara	CS	Mansoura
Ahmed	BIS	Tanta
Mohamed	IS	Cairo
Rana	IT	Banha

Tables

`<table>`

`<tr>`

`<th> Name </th>`

`<th> Department </th>`

`</tr>`

`</table>`

Name	Department	University
Sara	CS	Mansoura
Ahmed	BIS	Tanta
Mohamed	IS	Cairo
Rana	IT	Banha

Tables

```
<table>
  <tr>
    <th> Name </th>
    <th> Department </th>
    <th> University</th>

  </tr>

</table>
```

Name	Department	University
Sara	CS	Mansoura
Ahmed	BIS	Tanta
Mohamed	IS	Cairo
Rana	IT	Banha

Tables

<table>

<tr>

<th> Name </th>

<th> Department </th>

<th> University</th>

</tr>

<tr>

</tr>

</table>



Name	Department	University
Sara	CS	Mansoura
Ahmed	BIS	Tanta
Mohamed	IS	Cairo
Rana	IT	Banha

Tables

```
<table>
  <tr>
    <th> Name </th>
    <th> Department </th>
    <th> University</th>
  </tr>
  <tr>
    <td> Sara </td>

  </tr>

</table>
```



Name	Department	University
Sara	CS	Mansoura
Ahmed	BIS	Tanta
Mohamed	IS	Cairo
Rana	IT	Banha

Tables

```
<table>
  <tr>
    <th> Name </th>
    <th> Department </th>
    <th> University</th>
  </tr>
  <tr>
    <td> Sara </td>
    <td> CS </td>
  </tr>
</table>
```

Name	Department	University
Sara	CS	Mansoura
Ahmed	BIS	Tanta
Mohamed	IS	Cairo
Rana	IT	Banha

Tables

```
<table>
  <tr>
    <th> Name </th>
    <th> Department </th>
    <th> University</th>
  </tr>
  <tr>
    <td> Sara </td>
    <td> CS </td>
    <td> Mansoura </td>
  </tr>
</table>
```

Name	Department	University
Sara	CS	Mansoura
Ahmed	BIS	Tanta
Mohamed	IS	Cairo
Rana	IT	Banha

Tables

```
<table>  
  <tr>  
    <th> Name </th>  
    <th> Department </th>  
    <th> University</th>  
  </tr>  
  <tr>  
    <td> Sara </td>  
    <td> CS </td>  
    <td> Mansoura </td>  
  </tr>  
</table>
```

Name	Department	University
Sara	CS	Mansoura
Ahmed	BIS	Tanta
Mohamed	IS	Cairo
Rana	IT	Banha

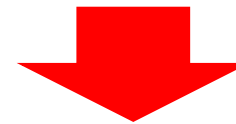
Tables

```
<table>
<!-- <tr>
  <th> Name </th>
  <th> Department </th>
  <th> University</th>
</tr>
  <tr>
    <td> Sara </td>
    <td> CS </td>
    <td> Mansoura </td>
  </tr>
</table>
```

HTML Comments

```
<!--
-->
```

Name	Department	University
Sara	CS	Mansoura
Ahmed	BIS	Tanta
Mohamed	IS	Cairo
Rana	IT	Banha



Sara	CS	Mansoura
Ahmed	BIS	Tanta
Mohamed	IS	Cairo
Rana	IT	Banha

HTML element Class Vs. ID

Class	ID
Every HTML element can also carry a class attribute. Sometimes, rather than uniquely identifying one element within a document, you will want a way to <u>identify several elements</u> as being different from the other elements on the page.	Every HTML element can carry the id attribute. It is used <u>to uniquely identify</u> that element from other elements on the page.

```
<p id="e1"> My Name is Sara El-Metwally </p>  
<p id="e2"> Iam an assistant professor of CS </p>
```

HTML element Class Vs. ID

Class	ID
Every HTML element can also carry a class attribute. Sometimes, rather than uniquely identifying one element within a document, you will want a way to <u>identify several elements</u> as being different from the other elements on the page.	Every HTML element can carry the id attribute. It is used <u>to uniquely identify</u> that element from other elements on the page.

```
<p class="e1"> My Name is Sara El-Metwally </p>  
<p class="e1"> Iam an assistant professor of CS </p>
```

HTML element inline Vs. Block level

Inline elements	Block level elements
Elements appear to continue on the same line as their neighboring elements. <a>, , and 	Elements always appear to start on a new line on a browser window. <h1>,<p>, , and

Escape Characters

```
<!DOCTYPE html>  
<html>  
<body>
```

```
<p> 7 < 10 </p>
```

```
<p> 7 &lt; 10 </p>
```

```
</body>  
</html>
```

<	Less-than sign < <	¢	Cent sign ¢ ¢	'	Left single quote &lquo; ‘
>	Greater-than sign > >	£	Pound sign £ £	'	Right single quote &rquo; ’
&	Ampersand & &	¥	Yen sign ¥ ¥	“	Left double quotes &lquo; “
"	Quotation mark " "	€	Euro sign € €	”	Right double quotes &rquo; ”
		©	Copyright symbol © ©	×	Multiplication sign × ×
		®	Registered trademark ® ®	÷	Division sign ÷ ÷
		™	Trademark ™ ™		

Image credit from book HTML & CSS Design and Build Websites by Jon Duckett

HTML FORMS

Registration Form

First Name: Last Name:

Female ☐ Male ☐

Email: Password:

Birthday

I agree to all conditions of the form ☐

HTML FORMS

- ❑ HTML borrows the concept of a form to refer to different elements that allow you to collect information from visitors to your site.
- ❑ There are several types of form controls that you can use to collect information from visitors to your site.
- ❑ These controls are classified as:
 - ❑ Adding Text
 - ❑ Making Choices
 - ❑ Submitting Buttons
 - ❑ Uploading Files

HTML FORMS

ADDING TEXT:

Text input (single-line)

Used for a single line of text such as email addresses and names.

Password input

Like a single line text box but it masks the characters entered.

Text area (multi-line)

For longer areas of text, such as messages and comments.

Image credit from book HTML & CSS Design and Build Websites by Jon Duckett

HTML FORMS

MAKING CHOICES:

Radio buttons

For use when a user must select one of a number of options.



Checkboxes

When a user can select and unselect one or more options.



Drop-down boxes

When a user must pick one of a number of options from a list.



Image credit from book HTML & CSS Design and Build Websites by Jon Duckett

HTML FORMS

SUBMITTING FORMS:

Submit buttons

To submit data from your form to another web page.



Image buttons

Similar to submit buttons but they allow you to use an image.



UPLOADING FILES:

File upload

Allows users to upload files (e.g. images) to a website.



Image credit from book HTML & CSS Design and Build Websites by Jon Duckett

How Forms Work?

Registration Form

First Name: Last Name:

Female ☐ Male ☐

Email: Password:

Birthday

I agree to all conditions of the form ☐

01

A user fills in a form and then presses a button to submit the information to the server.

02

The name of each form control is sent to the server along with the value the user enters or selects.

03

The server processes the information using a programming language such as PHP, C#, or Java. It may also store the information in a database.

04

The server creates a new page to send back to the browser based on the information received.

Thank You!

Please check your email for further instructions on how to complete your account setup.

Having trouble? [Contact us](#)

[Continue to homepage](#)

HTML FORMS

- ❑ A form may have several form controls, each gathering different information. The server needs to know which piece of inputted data corresponds with which form element.
- ❑ To differentiate between various pieces of inputted data, information is sent from the browser to the server using name/value pairs.

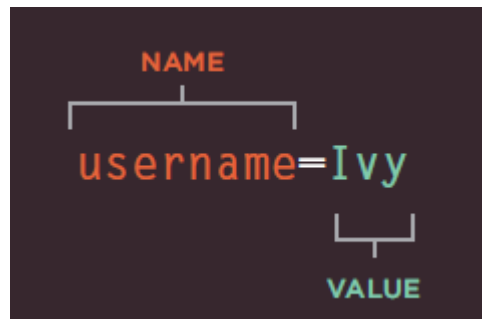
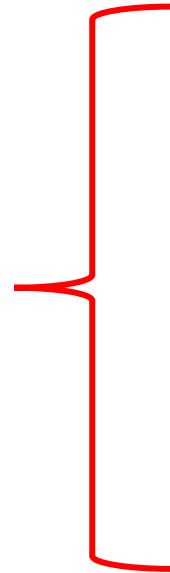


Image credit from book HTML & CSS Design and Build Websites by Jon Duckett

HTML FORMS

`<form>`



`</form>`

Registration Form

First Name: Last Name:

Female ☐ Male ☐

Email: Password:

Birthday ▼

I agree to all conditions of the form ☐

HTML FORMS

<form action = "" method = "" **>**

</form>

Registration Form

First Name: Last Name:
Female ☐ Male ☐
Email: Password:
Birthday
I agree to all conditions of the form ☐

- ❑ Every **<form>** element requires an **action** attribute.
- ❑ **Its value** is the URL for the page on the server that will receive the information in the form when it is submitted.

HTML FORMS

`<form action = "http://www.example.com/subscribe.php" method = "" >`

`</form>`

Registration Form

First Name: Last Name:
Female ☐ Male ☒
Email: Password:
Birthday
I agree to all conditions of the form ☐

- ❑ Every **<form>** element requires an **action** attribute.
- ❑ **Its value** is the URL for the page on the server that will receive the information in the form when it is submitted.

HTML FORMS

`<form action = "http://www.example.com/subscribe.php" method = "get" >`



Registration Form

First Name: Last Name:

Female ☐ Male ☐

Email: Password:

Birthday ▼

I agree to all conditions of the form ☐

`</form>`

- ❑ Forms can be sent using one of two **methods**: **get** or **post**.
- ❑ With the **get** method, **the values** from the form **are added to the end of the URL** specified in the action attribute.
- ❑ The **get** method is ideal for **search boxes (short forms)**, and when you are just **retrieving data from the web server** not sending information to DB.

HTML FORMS

<form action = "http://www.example.com/subscribe.php" method ="**post**" >



Registration Form

First Name: Last Name:

Female ☐ Male ☐

Email: Password:

Birthday ▼

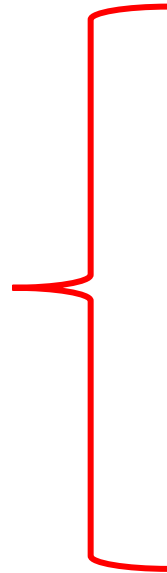
I agree to all conditions of the form ☐

</form>

- ☐ With the **post** method the values are sent in what are known as **HTTP headers**.
- ☐ You should use the **post** method if your form :
 - ☐ is very long
 - ☐ allows users to upload files
 - ☐ contains sensitive data
 - ☐ deals with DB

HTML FORMS

<form action = "" method = "" **>**



Registration Form

First Name: Last Name:

Female ☐ Male ☒

Email: Password:

Birthday ▼

I agree to all conditions of the form ☐

</form>

- ❑ If the method attribute is not used, the form data will be sent using the **get method**.

HTML FORMS

```
<form action = "" method = "" >
```

```
<p> First Name:
```

```
<input type= "text"  
name = "firstname" size="15"  
maxlength="30" />
```

```
</p>
```

```
</form>
```

Registration Form

First Name: Last Name:

Female ☐ Male ☐

Email: Password:

Birthday

I agree to all conditions of the form ☐

- ❑ The **<input> element is used** to create several different form controls.
- ❑ The value of the **type** attribute determines what kind of input they will be creating.
- ❑ When the **type attribute has a value of text**, it creates a **single line** text input.

HTML FORMS

```
<form action = "" method = "" >
```

```
<p> First Name:
```

```
<input type= "text"  
name = "firstname"  
maxlength="30" />
```

```
</p>
```

```
</form>
```

Registration Form

First Name: Last Name:

Female ☐ Male ☐

Email: Password:

Birthday

I agree to all conditions of the form ☐

- ☐ Each form control requires a **name attribute**.
- ☐ The value of this attribute identifies the form control and is sent along with the information they enter to the server.
- ☐ You can use the **maxlength** attribute to limit the number of characters a user may enter into the text field.

HTML FORMS

```
<form action = "" method = "" >
```

```
<label> First Name:
```

```
<input type= "text"  
name = "firstname"  
maxlength="30" />
```

```
</label>
```

```
</form>
```

Registration Form

First Name: Last Name:

Female ☒ Male ☐

Email: Password:

Birthday ▼

I agree to all conditions of the form ☐

HTML FORMS

```
<form action = "" method = "" >
```

```
<label for = "txtbox1"> First Name: </label>
```



```
<input id= "txtbox1" type= "text"  
name = "firstname" maxlength="30" />
```

```
</form>
```

- ❑ A label can be kept separate from the form control and use the for attribute to indicate which form control it is a label for.
- ❑ The value of the for attribute matches that of the id attribute on the form control it is labeling.

HTML FORMS

```
<form action = "" method = "" >
```

```
<label for = "txtbox1"> First Name: </label>
```

```
<input id= "txtbox1" type= "text"  
name = "firstname" maxlength="30"  
placeholder="Sara" required />
```

```
</form>
```

Registration Form

First Name: Last Name:

Female ☐ Male ☐

Email: Password:

Birthday

I agree to all conditions of the form ☐

- ❑ On any text input, you can also use an attribute called **placeholder** whose value is text that will be shown in the text box until the user clicks in that area.
- ❑ An example of HTML5 form validation is the **required** attribute, which can be used on any form element that the user is expected to fill in.

HTML FORMS

```
<form action = "" method = "" >
```

```
<label for = "txtbox2"> Email: </label>
```

```
<input id= "txtbox2" type= "email"  
name = "email"  
placeholder= "sara@gmail.com"  
required />  
</form>
```

Registration Form

First Name: Last Name:

Female ☐ Male ☐

Email: Password:

Birthday

I agree to all conditions of the form ☐

- ❑ On any text input, you can also use an attribute called **placeholder** whose value is text that will be shown in the text box until the user clicks in that area.
- ❑ An example of HTML5 form validation is the **required** attribute, which can be used on any form element that the user is expected to fill in.

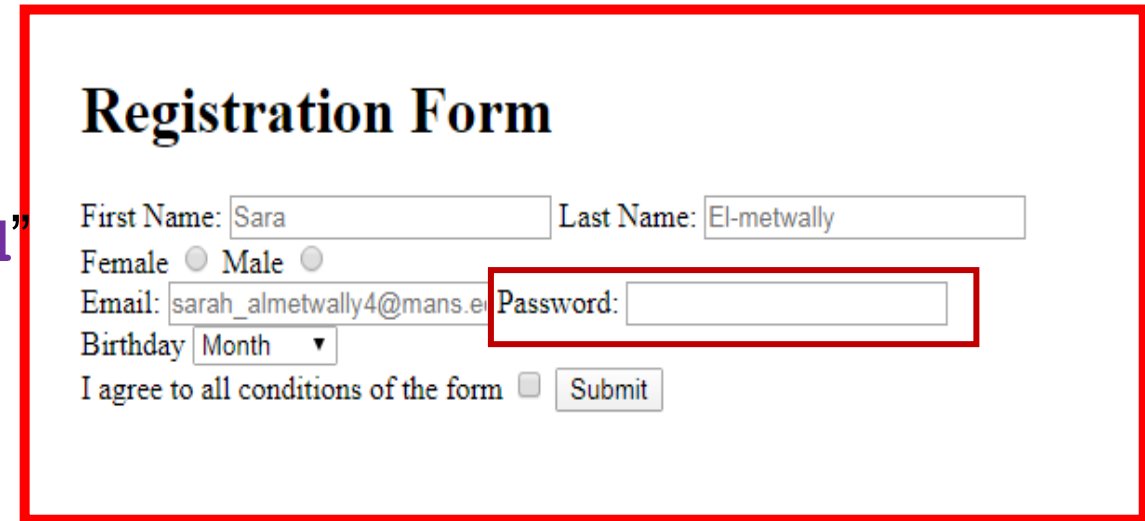
HTML FORMS

```
<form action = "" method = "" >
```

```
<label for = "txtbox3"> Password </label>
```

```
<input id= "txtbox3" type= "password"  
name = "paw" required />
```

```
</form>
```



Registration Form

First Name: Last Name:

Female ☐ Male ☐

Email: Password:

Birthday

I agree to all conditions of the form ☐

- ❑ On any text input, you can also use an attribute called **placeholder** whose value is text that will be shown in the text box until the user clicks in that area.
- ❑ An example of HTML5 form validation is the **required** attribute, which can be used on any form element that the user is expected to fill in.



Thank You