

ADVANCED WEB TECHNOLOGIES



<html>



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HTML BASICS

□ Hyper Text Markup Language:

HTML BASICS

❑ Hyper Text Markup Language:

- ✓ A document containing tags (markup),

HTML BASICS

❑ Hyper Text Markup Language:

- ✓ A document containing tags (markup),
- ✓ Browser interprets the tags rendering the content,

HTML BASICS

❑ Hyper Text Markup Language:

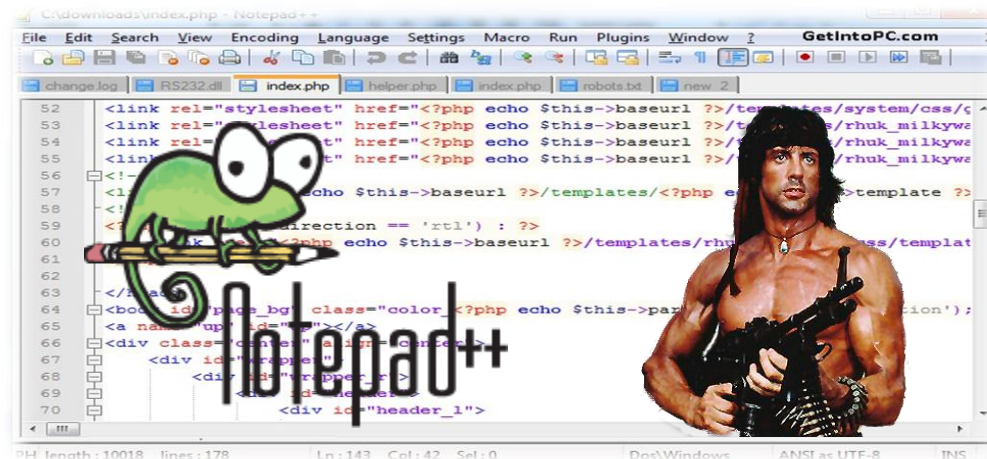
- ✓ A document containing tags (markup),
- ✓ Browser interprets the tags rendering the content,
- ✓ Easy to develop using tools ranging from simple text editors to more advanced web design tools.



HTML BASICS

❑ Hyper Text Markup Language:

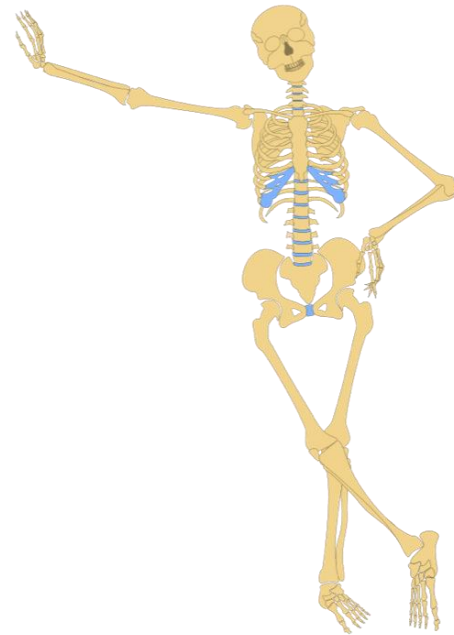
- ✓ A document containing tags (markup),
- ✓ Browser interprets the tags rendering the content,
- ✓ Easy to develop using tools ranging from simple text editors to more advanced web design tools.



HTML BASICS

□ Anatomy of a Hyper Text Markup Language Document:

```
<html>
<head>
  <title>Page Title!</title>
</head>
<body>
  This is my first page !!!
</body>
</html>
```



HTML BASICS

□ Anatomy of a Hyper Text Markup Language Document:

```
<html>
```

```
<head>
```

```
  <title>Page Title!</title>
```

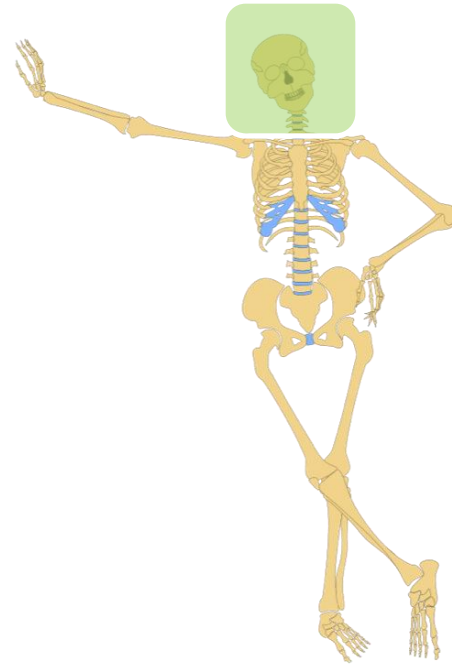
```
</head>
```

```
<body>
```

```
  This is my first page !!!
```

```
</body>
```

```
</html>
```



HTML BASICS

❑ Anatomy of a Hyper Text Markup Language Document:

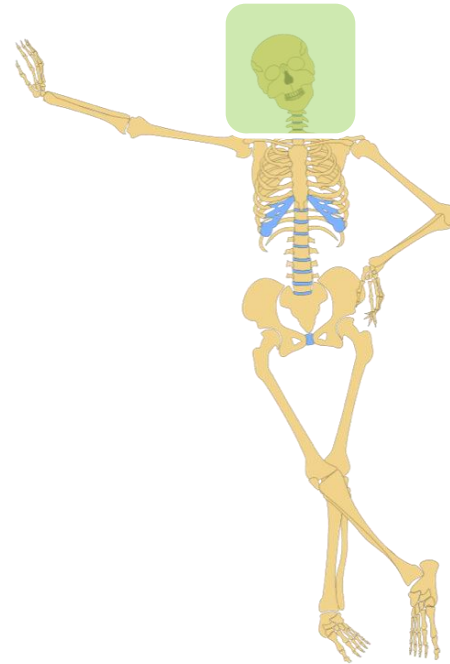
```
<head>

    <title>Page Title!</title>

</head>
```

○ head section:

TAG	Description
title	Defines page's title
script	Defines scripting language
style	Defines CSS
...	...
meta	Defines metadata → SEO



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□ Anatomy of a Hyper Text Markup Language Document:

```
<html>
```

```
<head>
```

```
    <title>Page Title!</title>
```

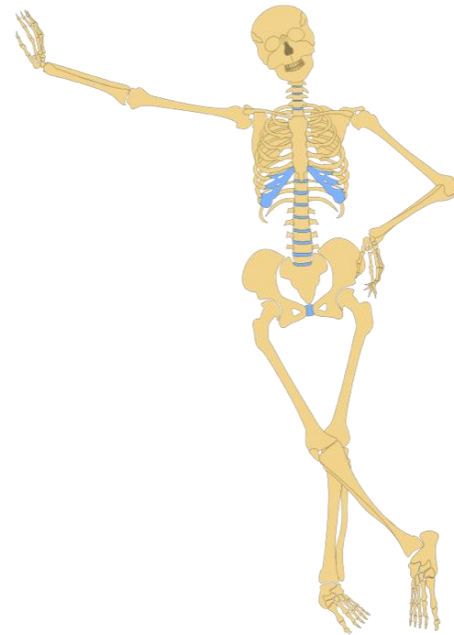
```
</head>
```

```
<body>
```

```
    This is my first page !!!
```

```
</body>
```

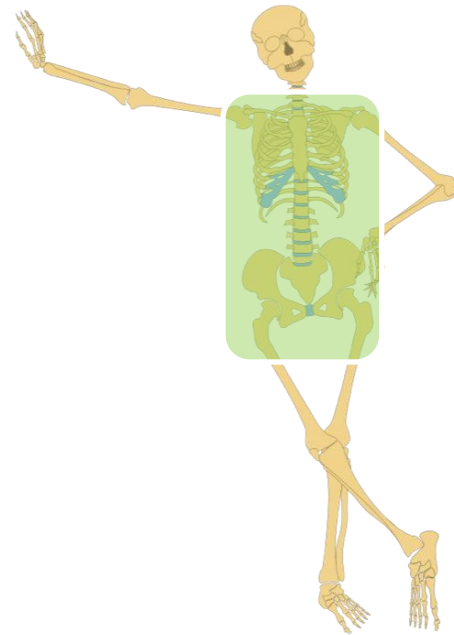
```
</html>
```



HTML BASICS

□ Anatomy of a Hyper Text Markup Language Document:

```
<html>  
  
<head>  
    <title>Page Title!</title>  
</head>  
  
<body>  
    This is my first page !!!  
</body>  
  
</html>
```



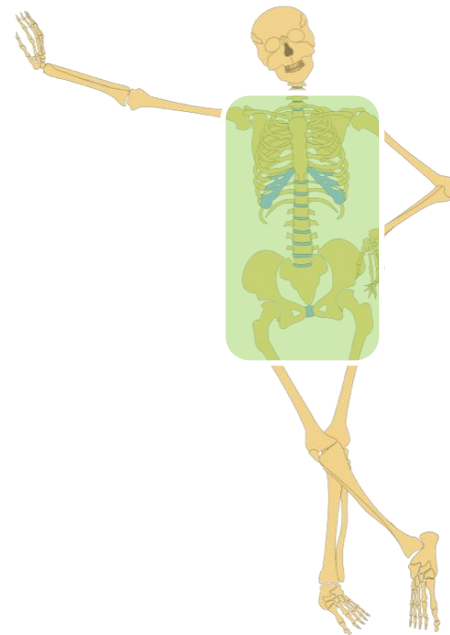
HTML BASICS

❑ Anatomy of a Hyper Text Markup Language Document:

```
<body>  
    This is my first page !!!  
</body>
```

○ body section:

TAG	Description
bgcolor	Defines background's color
text	Defines text's color
link	Defines link's color
...	...
background	Defines background image



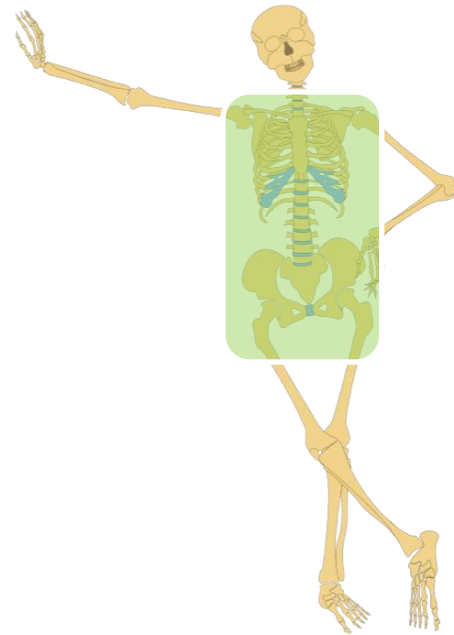
HTML BASICS

❑ Anatomy of a Hyper Text Markup Language Document:

```
<body>  
    This is my first page !!!  
</body>
```

○ body section:

TAG	Description
h(1-6)	Defines header style
p	Defines paragraph
u/o/d l	Defines lists
...	...
form	Defines forms



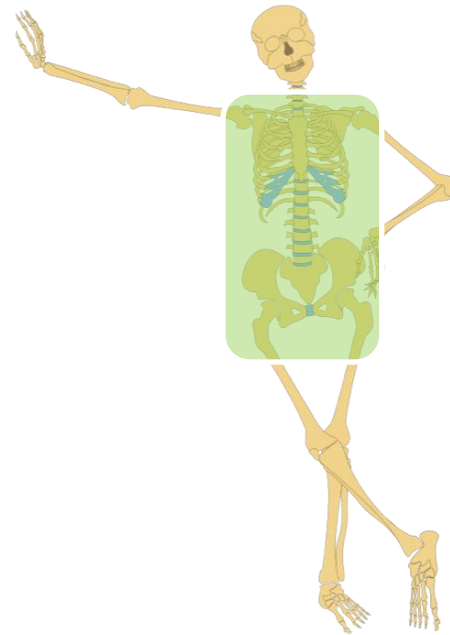
HTML BASICS

□ Anatomy of a Hyper Text Markup Language Document:

```
<body>
  This is my first page !!!
</body>
```

○ body section:

TAG	Description
table	Defines table
hr	Defines lines
a	Defines links
...	...
img	Defines image



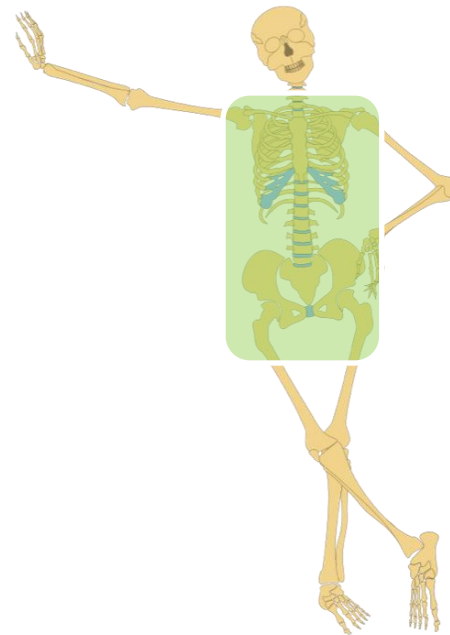
HTML BASICS

❑ Anatomy of a Hyper Text Markup Language Document:

```
<body>
  This is my first page !!!
</body>
```

○ body section:

TAG	Description
b	Defines bold fonts
i	Defines <i>italic</i> fonts
u	Defines <u>underline</u> fonts
...	...
br	Defines line change



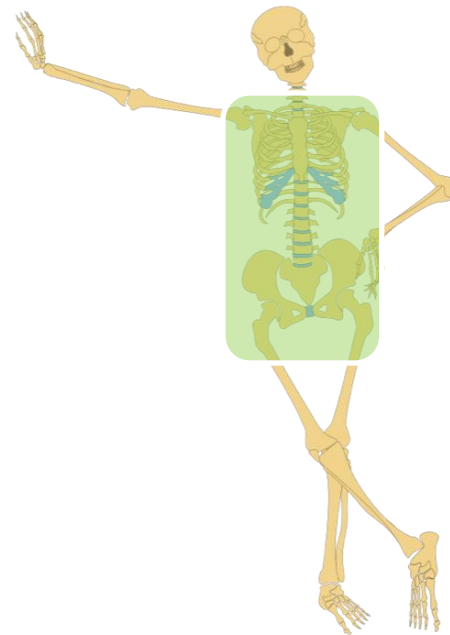
HTML BASICS

❑ Anatomy of a Hyper Text Markup Language Document:

```
<body>  
    This is my first page !!!  
</body>
```

○ body section - forms:

TAG	Description
form	Defines a form for user input
input	Defines an input control
textarea	Defines a multiline input control
...	...
label	Defines label for an <input>



HTML BASICS

□ Anatomy of a Hyper Text Markup Language Document:

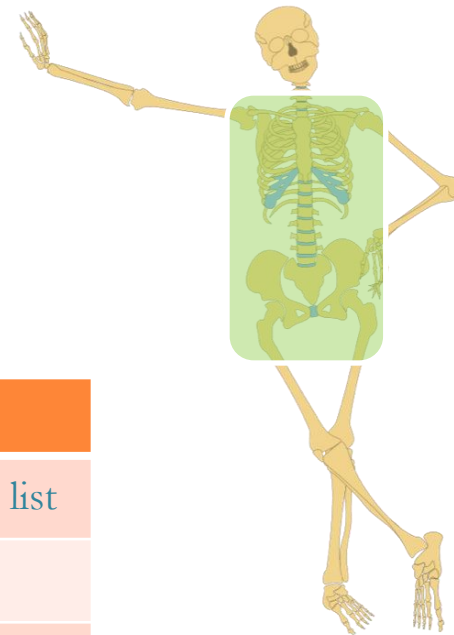
```
<body>

  This is my first page !!!

</body>
```

○ body section - forms:

TAG	Description
option	Defines an option in a drop-down list
button	Defines a clickable button
select	Defines a drop-down list
...	...
optgroup	Defines a group of related options in a drop-down list



HTML BASICS

❑ Anatomy of a Hyper Text Markup Language Document:

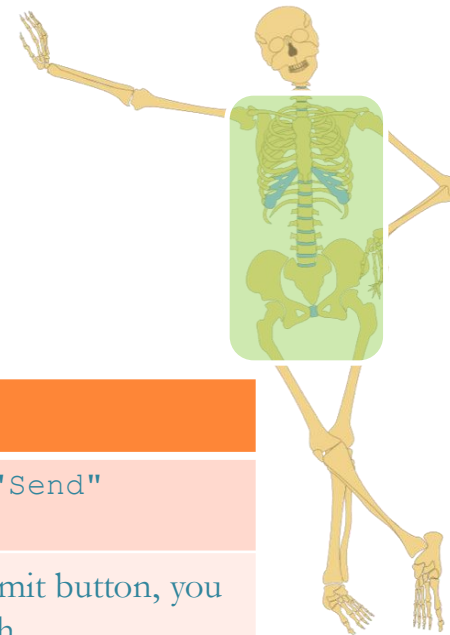
```
<body>

  This is my first page !!!

</body>
```

○ body section - forms:

object	button
code	<code><input type="button" value="Send" onclick="myfunction()"></code>
description	If it is a simple button and not a submit button, you need to associate JavaScript code with the onclick event to execute something.
appearance	



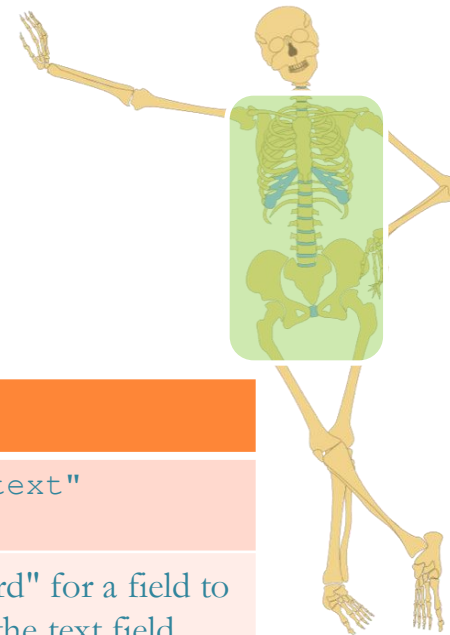
HTML BASICS

□ Anatomy of a Hyper Text Markup Language Document:

```
<body>  
    This is my first page !!!  
</body>
```

○ body section - forms:

object	Text field
code	<code><input type="text" name="mytext" value="default text"></code>
description	Other attributes are: type = "password" for a field to the hidden content, size = width of the text field, maxlength = max # characters.
appearance	default text



HTML BASICS

❑ Anatomy of a Hyper Text Markup Language Document:

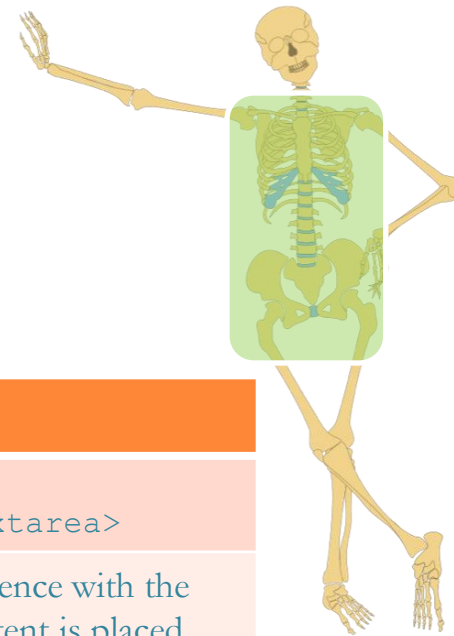
```
<body>

  This is my first page !!!

</body>
```

○ body section - forms:

object	Text area
code	<code><textarea name="textarea">content</textarea></code>
description	Text field on several lines. The difference with the previous object is that the initial content is placed between the starting and ending tags, not in an attribute.
appearance	



HTML BASICS

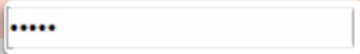
❑ Anatomy of a Hyper Text Markup Language Document:

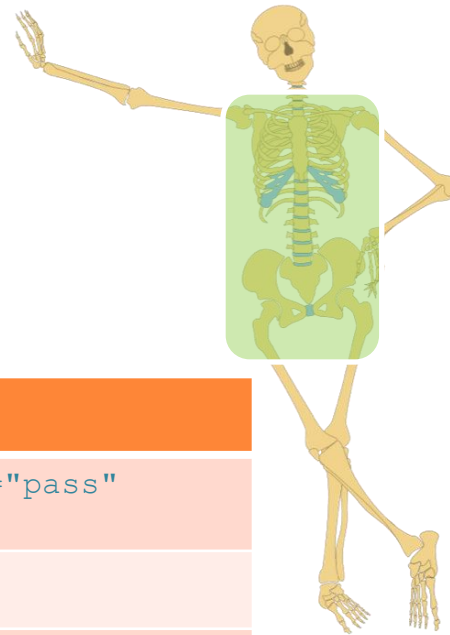
```
<body>

  This is my first page !!!

</body>
```

○ body section - forms:

object	Password
code	<code><input type="password" name="pass" value="12345"></code>
description	...
appearance	



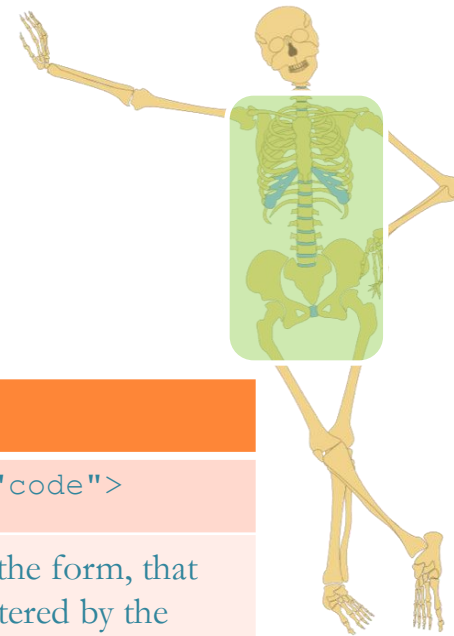
HTML BASICS

❑ Anatomy of a Hyper Text Markup Language Document:

```
<body>  
    This is my first page !!!  
</body>
```

○ body section - forms:

object	Hidden field
code	<code><input type="hidden" value="code"></code>
description	Allows to add data to values sent by the form, that are defined by a script rather than entered by the user.
appearance	



HTML BASICS

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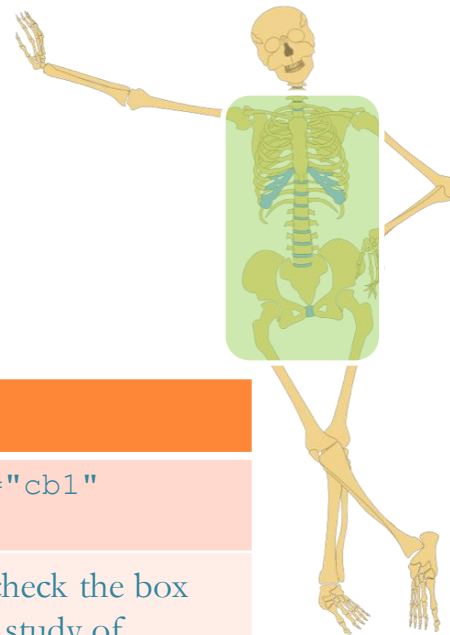
```
<body>

  This is my first page !!!

</body>
```

○ body section - forms:

object	Checkbox
code	<code><input type="checkbox" name="cb1" value="true" checked></code>
description	The checked attribute allows you to check the box initially. An article is dedicated to the study of the use of check boxes.
appearance	



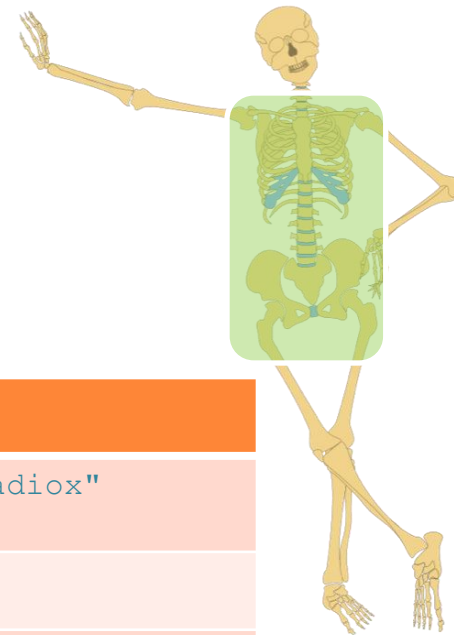
HTML BASICS

❑ Anatomy of a Hyper Text Markup Language Document:

```
<body>  
    This is my first page !!!  
</body>
```

○ body section - forms:

object	Radio button
code	<code><input type="radio" name="radiox" value="radio1"></code>
description	...
appearance	



HTML BASICS

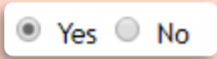
❑ Anatomy of a Hyper Text Markup Language Document:

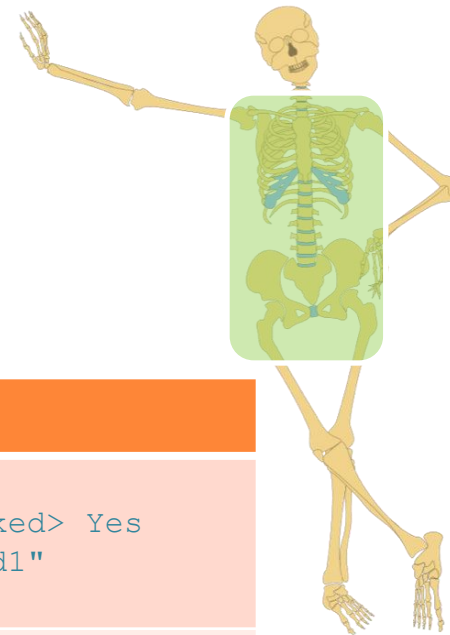
```
<body>

  This is my first page !!!

</body>
```

○ body section - forms:

object	Radio group
code	<pre><input type="radio" name="id1" value="true" checked> Yes <input type="radio" name="id1" value="false"> No</pre>
description	A radio button works as a checkbox. But a group of radio buttons allows an alternative: checking one unchecks others. So that the buttons are alternative, we must give the same name or id for all.
appearance	



HTML BASICS

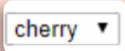
❑ Anatomy of a Hyper Text Markup Language Document:

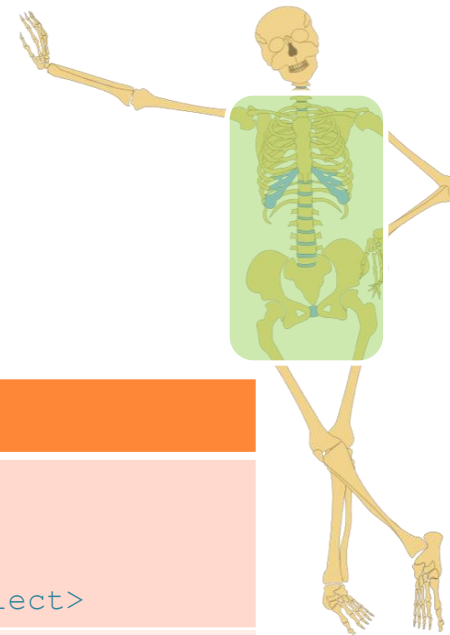
```
<body>

  This is my first page !!!

</body>
```

○ body section - forms:

object	Menu
code	<pre><select name="select"> <option>cherry</option> <option>orange</option> <option>apple</option> </select></pre>
description	The select tag and option inner tags allow to build a menu that can take the form of a scrolling list or a static list.
appearance	



HTML BASICS

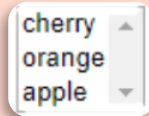
❑ Anatomy of a Hyper Text Markup Language Document:

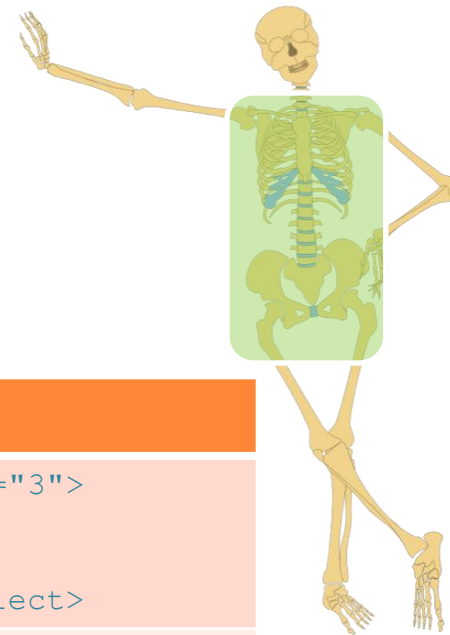
```
<body>

  This is my first page !!!

</body>
```

○ body section - forms:

object	List
code	<pre><select name="select2" size="3"> <option>cherry</option> <option>orange</option> <option>apple</option> </select></pre>
description	...
appearance	



HTML BASICS

□ Anatomy of a Hyper Text Markup Language Document:

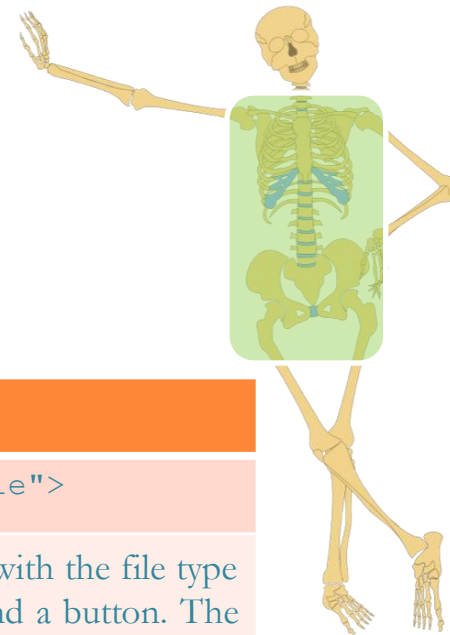
```
<body>

  This is my first page !!!

</body>
```

○ body section - forms:

object	File
code	<code><input type="file" name="file"></code>
description	HTML has a file selection function with the file type "file" which combines a text field and a button. The local filename is assigned to the value attribute of the object. The content of the local file is added to form data and sent with them.
appearance	



HTML BASICS

❑ Anatomy of a Hyper Text Markup Language Document:

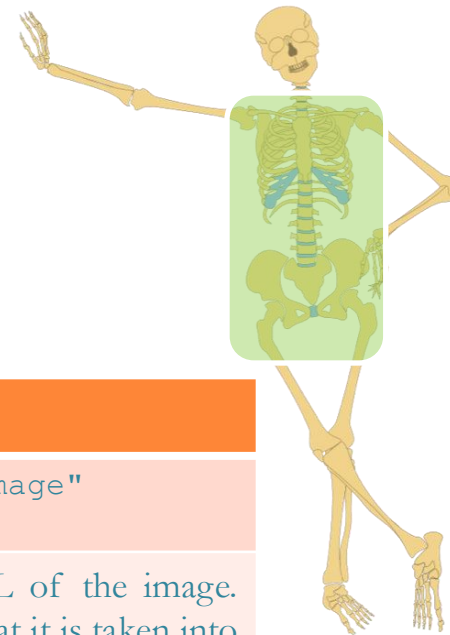
```
<body>

  This is my first page !!!

</body>
```

○ body section - forms:

object	Image
code	<code><input type="image" name="image" src="xulfr.gif"></code>
description	The src attribute indicates the URL of the image. The difference with the img tag is that it is taken into account in the form data passed to another page.
appearance	...



HTML BASICS

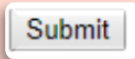
❑ Anatomy of a Hyper Text Markup Language Document:

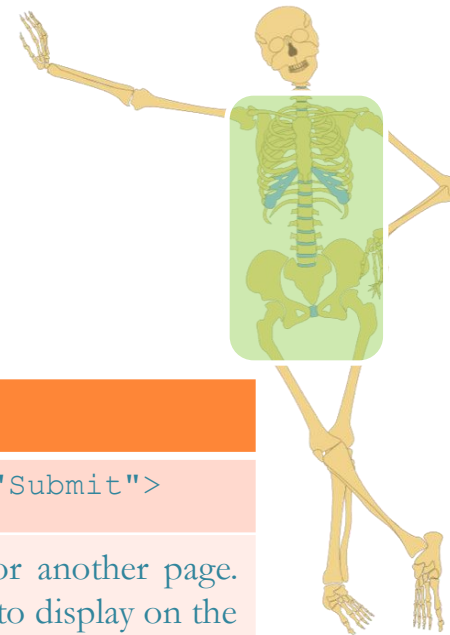
```
<body>

  This is my first page !!!

</body>
```

○ body section - forms:

object	Submit
code	<code><input type="submit" value="Submit"></code>
description	It send the form data to a script or another page. The value attribute defines the label to display on the button. When you press this button, the file defined by the action attribute of the form is loaded in place of the current page and the form data are given as parameters. We associate an onclick event to the submit buttons.
appearance	



HTML BASICS

□ Anatomy of a Hyper Text Markup Language Document:

○ A complete form example:

The image shows a side-by-side comparison of HTML code and its rendered form. On the left, an IDE window displays the source code for 'test.html'. The code includes a form with various input types: a button, text input, text area, password input, hidden input, checkbox, radio, radio-set, drop-down menu, list menu, image, and submit button. On the right, a browser window shows the rendered form, with each HTML element mapped to its visual representation: a 'Send' button, a text input with 'default text', a text area with 'content', a password input with masked characters, a checked checkbox, a selected radio, a radio-set with 'Yes' selected, a drop-down menu showing 'cherry', a list menu showing 'apple', an image placeholder, and a 'Submit' button.

```
1 <html>
2
3 <head>
4 </head>
5
6 <body>
7 <form name="myform" id="myform" action="page.html" onSubmit="return fun()">
8 <br>button - <input type="button" value="Send" onclick="myfunction()">
9 <br>text - <input type="text" name="mytext" value="default text">
10 <br>textarea - <textarea name="textarea">content</textarea>
11 <br>password - <input type="password" name="pass" value="12345">
12 <br>hidden - <input type="hidden" value="code">
13 <br>checkbox - <input type="checkbox" name="cb1" value="true" checked>
14 <br>radio - <input type="radio" name="radiox" value="radio1">
15 <br>radio-set <input type="radio" name="id1" value="true" checked> Yes
16 <input type="radio" name="id1" value="false"> No
17 <br>drop down menu - <select name="select">
18 <option>cherry</option>
19 <option>orange</option>
20 <option>apple</option>
21 </select>
22 <br>list menu - <select name="select2" size="3">
23 <option>cherry</option>
24 <option>orange</option>
25 <option>apple</option>
26 </select>
27 <br>image - <input type="image" name="image" src="xulff.gif">
28 <br>submit - <input type="submit" value="Submit">
29 </form>
30
31 </body>
32
33 </html>
34
```

button - Send

text - default text

textarea - content

password -

hidden -

checkbox - ☒

radio - ☐

radio-set ☒ Yes ☐ No

drop down menu - cherry

list menu - cherry, orange, apple

image-Submit Query

submit - Submit

HTML BASICS

□ Anatomy of a Hyper Text Markup Language Document:

○ A complete form example:

```
<html>

<head>
</head>

<body>
<form name="myform" id="myform" action="page.html" onSubmit="return
fun()" ">
<br>button - <input type="button" value="Send" onclick="myfunction()" ">
<br>text - <input type="text" name="mytext" value="default text">
<br>textarea - <textarea name="textarea">content</textarea>
<br>password - <input type="password" name="pass" value="12345">
<br>hidden - <input type="hidden" value="code">
<br>checkbox - <input type="checkbox" name="cb1" value="true" checked>
<br>radio - <input type="radio" name="radiox" value="radio1">
<br>radio-set <input type="radio" name="id1" value="true" checked> Yes
<input type="radio" name="id1" value="false"> No
<br>drop down menu - <select name="select">
    <option>cherry</option>
    <option>orange</option>
    <option>apple</option>
</select>
<br>list menu - <select name="select2" size="3">
    <option>cherry</option>
    <option>orange</option>
    <option>apple</option>
</select>
<br>image-<input type="image" name="image" src="xulfr.gif">
<br>submit - <input type="submit" value="Submit">
</form>

</body>

</html>
```


HTML BASICS

□ Anatomy of a Hyper Text Markup Language Document:

○ HTML Tables:

Company	Contact	Country
Alfreds Futterkiste	Maria Anders	Germany
Centro comercial Moctezuma	Francisco Chang	Mexico
Ernst Handel	Roland Mendel	Austria
Island Trading	Helen Bennett	UK
Laughing Bacchus Winecellars	Yoshi Tannamuri	Canada
Magazzini Alimentari Riuniti	Giovanni Rovelli	Italy

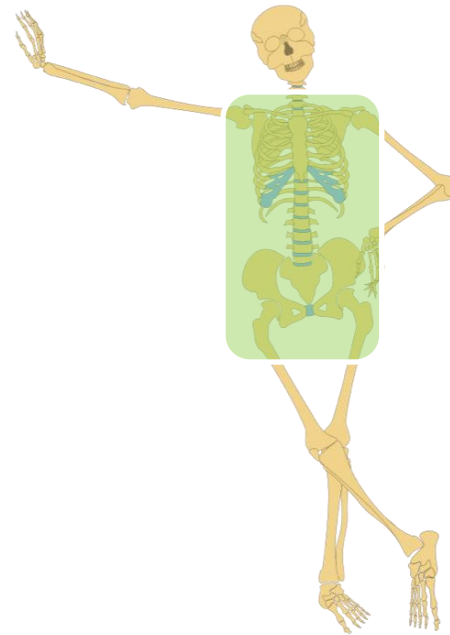
HTML BASICS

❑ Anatomy of a Hyper Text Markup Language Document:

```
<body>  
    This is my first page !!!  
</body>
```

○ body section - tables:

TAG	Description
table	Defines a new table
tr	Defines a new row
td	Defines a new column
...	...



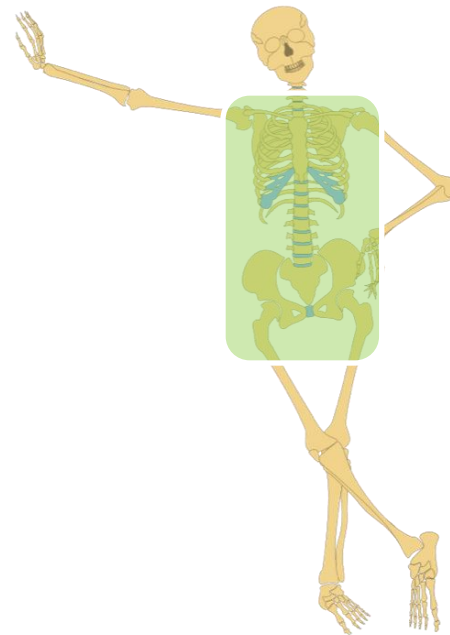
HTML BASICS

□ Anatomy of a Hyper Text Markup Language Document:

```
<body>  
    This is my first page !!!  
</body>
```

○ body section - tables:

TAG	Description
width & heigh	Defines table's dimensions
border	Defines border's size
cellspacing cellpading	Defines a distance between cell and elements
...	...



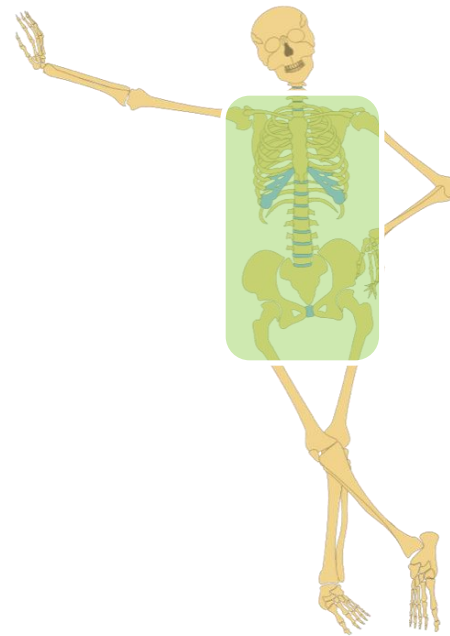
HTML BASICS

❑ Anatomy of a Hyper Text Markup Language Document:

```
<body>  
    This is my first page !!!  
</body>
```

○ body section - tables:

TAG	Description
bgcolor	Defines background color
bordercolor	Defines table's border color
borderstyle	Defines table's border style
...	...



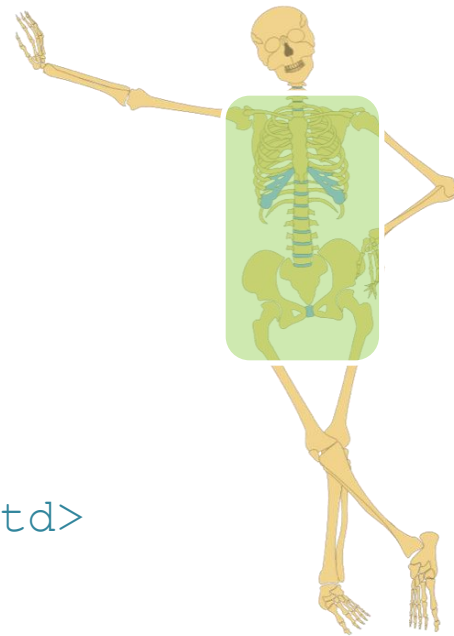
HTML BASICS

□ Anatomy of a Hyper Text Markup Language Document:

```
<body>  
    This is my first page !!!  
</body>
```

○ body section - tables:

```
<table>  
<tr>  
    <td>alpha</td><td>beta</td>  
</tr>  
</table>
```



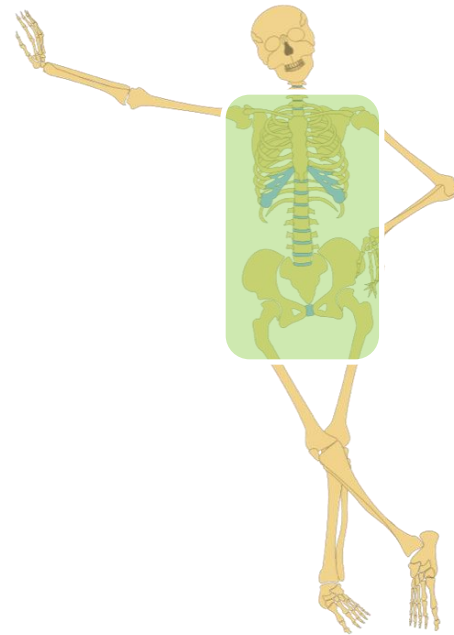
HTML BASICS

□ Anatomy of a Hyper Text Markup Language Document:

```
<body>  
    This is my first page !!!  
</body>
```

- body section - tables:

alpha	beta
-------	------



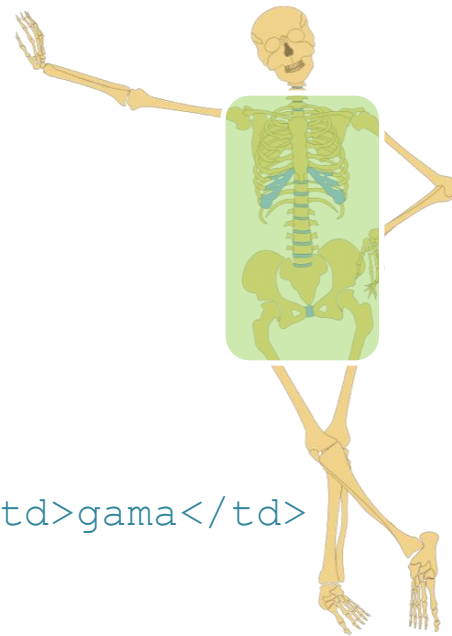
HTML BASICS

□ Anatomy of a Hyper Text Markup Language Document:

```
<body>  
    This is my first page !!!  
</body>
```

○ body section - tables:

```
<table border=1>  
<tr>  
    <td>alpha</td><td>beta</td><td>gama</td>  
</tr>  
<tr>  
    <td>delta</td><td>epsilon</td><td>zeta</td>  
</tr>  
<tr>  
    <td>eta</td><td>theta</td><td>giota</td>  
</tr>  
</table>
```



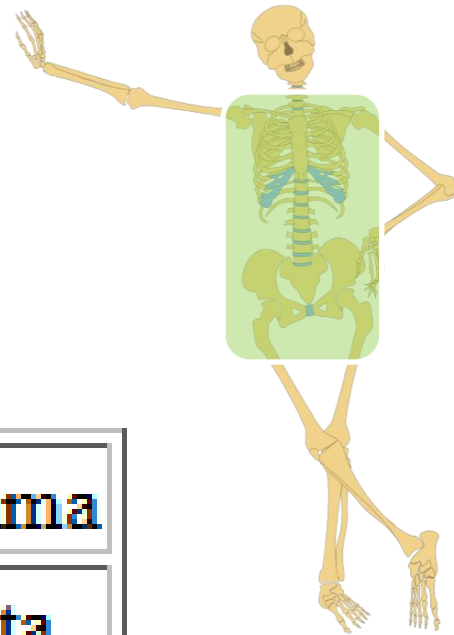
HTML BASICS

□ Anatomy of a Hyper Text Markup Language Document:

```
<body>  
    This is my first page !!!  
</body>
```

- body section - tables:

alpha	beta	gama
delta	epsilon	zeta
eta	theta	giota



HTML BASICS

□ Anatomy of a Hyper Text Markup Language Document:

```
<body>  
    This is my first page !!!  
</body>
```

- body section – tables (alignments):

programming	interpreted	scripting
C	php	javascript
c++	python	...
java	matlab	...



HTML BASICS

□ Anatomy of a Hyper Text Markup Language Document:

```
<body>

  This is my first page !!!

</body>
```

○ body section – tables (alignments):

```
<table border=1 bgcolor='yellow' style="color: green;"> <th>programming</th> <th>interpreted</th> <th>scripting</th>
<tr>
  <td>
    <table border=1 align=center bgcolor='blue' style="color: white;">
      <tr><td align=center>C</td></tr>
      <tr><td align=center>c++</td></tr>
      <tr><td align=center>java</td></tr>
    </table>
  </td>
  <td>
    <table border=1 align=center bgcolor='white' style="color: red;">
      <tr><td align=center>php</td></tr>
      <tr><td align=center>python</td></tr>
      <tr><td align=center>matlab</td></tr>
    </table>
  </td>
  <td>
    <table border=1 align=center bgcolor='red' style="color: blue;">
      <tr><td align=center>javascript</td></tr>
      <tr><td align=center>...</td></tr>
      <tr><td align=center>...</td></tr>
    </table>
  </td>
</tr>
</table>
```



HTML BASICS

□ Anatomy of a Hyper Text Markup Language Document:

```
<body>

    This is my first page !!!

</body>
```



○ body section – tables (alignments):

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<table border=1 bgcolor='yellow' style="color: green;"> <th>programming</th> <th>interpreted</th> <th>scripting</th>
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      <tr><td align=center>...</td></tr>
      <tr><td align=center>...</td></tr>
    </table>
  </td>
</tr>
</table>
```

HTML BASICS

□ Example of a complete HTML Form using Tables

```
<form name='registration' onSubmit="return formValidation();">
<table border=20 align =center>
<tr><td align="right">User id:</td>
    <td><input type="text" name="userid" size="30" /></td></tr>
<tr><td align="right">Password:</td>
    <td><input type="password" name="passid" size="30" /></td></tr>
<tr><td align="right">Name:</td>
    <td><input type="text" name="username" size="30" /></td></tr>
<tr><td align="right">Address:</td>
    <td><input type="text" name="address" size="30" /></td></tr>
<tr><td align="right">Country:</td>
    <td><select name="country">
        <option selected="" value="Default">(Please select a country)</option>
        <option value="GR">Greece</option>
        <option value="DE">Germany</option>
        <option value="IT">Italy</option>
        <option value="FR">France</option>
        <option value="SP">Spain</option>
        <option value="EN">England</option>
        <option value="IR">Ireland</option>
        <option value="SW">Sweden</option>
        <option value="FI">Finland</option>
        <option value="NO">Norway</option>
    </select></td></tr>
<tr><td align="right">ZIP Code:</td>
    <td><input type="text" name="zip" size="30" /></td></tr>
<tr><td align="right">Email:</td>
    <td><input type="text" name="email" size="30" /></td></tr>
<tr><td align="right">Gender:</td>
    <td><input type="radio" name="gender" value="Male" />Male
        <input type="radio" name="gender" value="Female" />Female</td></tr>
<tr><td align="right">Language:</td>
    <td><input type="checkbox" name="en" value="en" checked /> English
        <input type="checkbox" name="ot" value="ot" /> Other </td></tr>
<tr><td align="right">About:</td>
    <td><textarea name="desc" id="desc" rows="1" cols="10" id="myTextArea"></textarea></td></tr>
<tr><td><input type="reset" name="reset" value="Reset" /></td><td><input type="submit" name="submit" value="Submit" /></td>
</tr>
</table>
</form>
```

HTML BASICS

❑ Example of a complete HTML Form using Tables

Registration Form

User id:	alphanumeric
Password:	••••••
Name:	myName
Address:	myAddress
Country:	Greece
ZIP Code:	123456
Email:	me@somewhere.com
Gender:	☒ Male ☐ Female
Language:	☒ English ☐ Other
About:	Further Information
Reset	Submit

JAVAScript



JAVASCRIPT BASICS

□ JavaScript

- ✓ Client-side Scripting language
- ✓ Added to HTML documents
- ✓ Web-Browser Access and Controls
HTML objects through scripts

JAVASCRIPT BASICS

□ JavaScript

- ✓ Client-side Scripting language
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- ✓ Web-Browser Access and Controls
HTML objects through scripts

JAVASCRIPT BASICS

□ JavaScript

- ✓ Script controls browser's actions
- ✓ Client Interaction
- ✓ Cookies
- ✓ Content Manipulation
- ✓ ...

JAVASCRIPT BASICS

□ JavaScript

✓ Manipulating Browser Objects

○ Window

... functionalities regarding
browser's window:

Appearance

- ✓ `moveTo()` / `ScrollTo()` / `resizeTo()`
- ✓ `moveBy()` / `ScrollBy()` / `ResizeBy()`

JAVASCRIPT BASICS

□ JavaScript

✓ Manipulating Browser Objects

○ Window

... functionalities regarding
browser's window:

Event Actions

(on+ Load/Focus/Move/...etc)

✓ alert/confirm/prompt/...

✓ open/close

JAVASCRIPT BASICS

□ JavaScript

✓ Manipulating Browser Objects

○ Window

1. document

... functionalities about
page contents

JAVASCRIPT BASICS

□ JavaScript

✓ Manipulating Browser Objects

○ Window

1. document
2. frame

an array-like object, which represents all frame elements in the current window

JAVASCRIPT BASICS

□ JavaScript

✓ Manipulating Browser Objects

○ Window

1. document
2. frame
3. location

information about host and its name, the path etc...
- location.href(...)

JAVASCRIPT BASICS

□ JavaScript

✓ Manipulating Browser Objects

○ Window

1. document
2. frame
3. location
4. history

information about the visited
URLs concerning history
(previous/current/next/back()/
forward()...etc)

JAVASCRIPT BASICS

□ JavaScript

✓ Manipulating Browser Objects

○ Window

1. document

a. form

b. link

c. image

JAVASCRIPT BASICS

□ JavaScript

✓ Manipulating Browser Objects

○ Window

1. document

a. form

- button/submit/reset
- text/textarea/password
- checkbox/radio/select/hidden

JAVASCRIPT BASICS

□ JavaScript – Hands on Craft (Form Validation Example)



JavaScript – Hands on Craft (Form Validation Example)

```
<html lang="en">
<head>
<meta charset="utf-8">
<title>JavaScript Form Validation using a sample registration form</title>
<link rel="stylesheet" href="js-form-validation.css" type="text/css" />
<script src="sample-registration-form-validation.js"></script>
</head>
<body onload="document.registration.userid.focus();" onReset="return formEraseNotification();">
<h1 align="center">Registration Form</h1>
<form name='registration' onSubmit="return formValidation();">
<table border=20 align =center>
<tr><td align="right">User id:</td>
<td><input type="text" name="userid" size="30" /></td></tr>
<tr><td align="right">Password:</td>
<td><input type="password" name="password" size="30" /></td></tr>
<tr><td align="right">Name:</td>
<td><input type="text" name="username" size="30" /></td></tr>
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<option value="SP">Spain</option>
<option value="EN">England</option>
<option value="IR">Ireland</option>
<option value="SW">Sweden</option>
<option value="FI">Finland</option>
<option value="NO">Norway</option>
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<tr><td><input type="reset" name="reset" value="Reset" /></td><td><input type="submit" name="submit" value="Submit" /></td>
</tr>
</table>
</form>
</body>
</html>
```

❑ JavaScript – Hands on Craft (Form Validation Example)

```
h1 {  
  margin-left: 70px;  
}  
form li {  
  list-style: none;  
  margin-bottom: 5px;  
}  
form ul li label {  
  float: left;  
  clear: left;  
  width: 70px;  
  text-align: right;  
  margin-right: 10px;  
  font-family: Verdana, Arial, Helvetica, sans-serif;  
  font-size: 14px;  
}  
form ul li input, select, span {  
  float: left;  
  margin-bottom: 10px;  
}  
form textarea {  
  float: left;  
  width: 200px;  
  height: 15px;  
}
```

```
[type="submit"] {  
  clear: left;  
  margin: 20px 0 0 230px;  
  font-size: 18px;  
}  
[type="reset"] {  
  clear: left;  
  margin: 20px 0 0 230px;  
  font-size: 18px;  
}  
p {  
  margin-left: 70px;  
  font-weight: bold;  
}  
table .absorbing-column {  
  width: 100%;  
}  
#myTextArea {  
  min-width: 10px;  
  min-height: 5px;  
}
```

❑ JavaScript – Hands on Craft (Form Validation Example)

```
function formValidation(){
    var uid = document.registration.userid;
    var passid = document.registration.passid;
    var uname = document.registration.username;
    var uadd = document.registration.address;
    var ucountry = document.registration.country;
    var uzip = document.registration.zip;
    var uemail = document.registration.email;
    var umgender = document.registration.mgender;
    var ufgender = document.registration.fgender;
    if(userid_validation(uid,5,12)){
        if(passid_validation(passid,7,12)){
            if(allLetter(uname)){
                if(alphanumeric(uadd)){
                    if(countryselect(ucountry)){
                        if(allnumeric(uzip)){
                            if(ValidateEmail(uemail)){
                                if(validgender(umgender,ufgender)){
                                    }
                                }
                            }
                        }
                    }
                }
            }
        }
    }
    return false;
}
```

❑ JavaScript – Hands on Craft (Form Validation Example)

```
function userid_validation(uid,mx,my){
    var uid_len = uid.value.length;
    if (uid_len == 0 || uid_len >= my || uid_len < mx){
        alert("User Id should not be empty / length be between "+mx+" to "+my);
        uid.focus();
        return false;
    }
    return true;
}

function passid_validation(passid,mx,my){
    var passid_len = passid.value.length;
    if (passid_len == 0 || passid_len >= my || passid_len < mx){
        alert("Password should not be empty / length be between "+mx+" to "+my);
        passid.focus();
        return false;
    }
    return true;
}

function allLetter(uname){
    var letters = /^[A-Za-z]+$/;
    if(uname.value.match(letters)) {
        return true;
    }
    else{
        alert('Username must have alphabet characters only');
        uname.focus();
        return false;
    }
}
```

❑ JavaScript – Hands on Craft (Form Validation Example)

```
function alphanumeric(uadd){
    var letters = /^[0-9a-zA-Z]+$/;
    if(uadd.value.match(letters)) {
        return true;
    }
    else{
        alert('User address must have alphanumeric characters only');
        uadd.focus();
        return false;
    }
}
```

```
function countryselect(ucountry){
    if(ucountry.value == "Default"){
        alert('Select your country from the list');
        ucountry.focus();
        return false;
    }
    else{
        return true;
    }
}
```

```
function allnumeric(uzip){
    var numbers = /^[0-9]+$/;
    if(uzip.value.match(numbers)){
        return true;
    }
    else{
        alert('ZIP code must have numeric characters only');
        uzip.focus();
        return false;
    }
}
```

❑ JavaScript – Hands on Craft (Form Validation Example)

```
function ValidateEmail(uemail){  
    var mailformat = /^[w+([\.-]?w+)*@w+([\.-]?w+)*(\.\w{2,3})+$/;  
    if(uemail.value.match(mailformat)) {  
        return true;  
    }  
    else{  
        alert("You have entered an invalid email address!");  
        uemail.focus();  
        return false;  
    }  
}
```

```
function validgender(umgender,ufgender){  
    x=0;  
    if(umgender.checked){  
        x++;  
    }  
    if(ufgender.checked){  
        x++;  
    }  
    if(x==0){  
        alert('Select Male/Female');  
        umgender.focus();  
        return false;  
    }  
    else{  
        alert('Form Succesfully Submitted');  
        window.location.reload()  
        return true;  
    }  
}
```

```
function formEraseNotification(){  
    var x = confirm("Are you sure you want to erase form?");  
    if (x)  
        return true;  
    else  
        return false;  
    return true;  
}
```