Web Application Development



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INTRODUCTION TO HTML FORMS

FORMS

- Suppose we want to allow people viewing our web site to enter information (e.g. their names, their email addresses etc.).
- Forms make it possible to collect and process user input, and formulate personal replies (among other things).
- Lots of applications e.g.
 - ☐ Online Shopping
 - ☐ Web based surveys
 - □ etc.



FORMS

- Two aspects of using forms
 - □ (a) collecting input
 - □ (b) processing input
- •(a) is done with standard HTML but
- •(b) is a bit trickier and is usually accomplished by writing programs which run on the server, ie PHP

HTML Forms

- Textfield
- Hidden field
- Password field
- Fieldset
- Label
- Submit / Reset Button
- Radio Button
- Checkboxes

- Dropdown menu
- Scrolling menu
- Listbox selection
- Optgroup
- Textarea
- File Uploading
- Tab Order





EXAMPLE - INPUT FORM

	ICK.	TOURS WELFARE	Heload	nome	Search	Nesscape	120,000	Security					
	Bookmi	orks 🌉	Location:	ttp://locali	ost8080/re	gister.html	- T	「What's R	elated				
edition?													
									-				
	USER REGISTRATION												
* Required Fields													
Wine	t Nam					Last Nan	*						
LIIS	C TASETT	16	_			Last Lian	ire						
L													
Te 76	fail*					Zip Code							
E-14	тяш					Zap Code							
l l													
Time	r Nam												
Ose	L LASHI	Le											
T)	sword	*				Confirm	T)						
Pas	sword					Confirm	Passwo	ora					
ххль.	out moveme	de area	you inter	ractad is									
			□ Blu		••								
	stues	□ Jazz	: Cou	miry									
Wo	uld yo	u like t	o receiv	e e-mail	notifica	tions on o	ur spec	ial sales	?				
© 3		O No					_						
						-							
				Submit	Reset								
			ocument D	lone			. <u>4.11</u>	y (A) v	2 //.				

FORMS

- A form is an area that can contain form elements.
- Form elements allow the user to enter information (e.g. text fields, textarea fields, drop-down menus, radio buttons, checkboxes, etc.)
- A form should have at least one control like a Submit button that activates the Action attribute of the form.
- Action attributes specifies the URL or JSP that will be called when the user clicks the Submit button
- A form is defined with the <form> tag.

```
• <form action = ..... method = "post">
```

- <input type =>
- <input type =>
- •
- </form>

Form Template

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"</p>
   "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<a href="http://www.w3.org/1999/xhtml">
<head>
<title>Form Template</title>
<meta http-equiv="content-type" content="text/html;charset=utf-8"/>
</head>
<body>
<form action = "formscript.php" method = "post">
Put your textboxes, drop down menus, radio buttons etc. in here.
</form>
</body>
</html>
```

INPUT TAG

```
    <form action = ...... method = "post">
    <input type = .....>
    <input type = .....>
```

- •Most commonly used form tag is the <input> tag.
- Describes the input type
- Attributes of <input> tag
 - type kind of input field it will be.
 - text, hidden, password, and submit or reset.
 - name Assigns a name to the given field so that you can reference it later.
 - size Sets the horizontal width of the field. The unit of measurement is in blank spaces.
 - maxlength Max number of characters that can be entered.
 - value specifies value of data e.g. "", or any default value e.g. xyz

INPUT TAG - TEXT FIELDS

Text fields are used when you want the user to type letters, numbers, etc. in a form.

<form method="post" action="mailto:youremail@email.com">

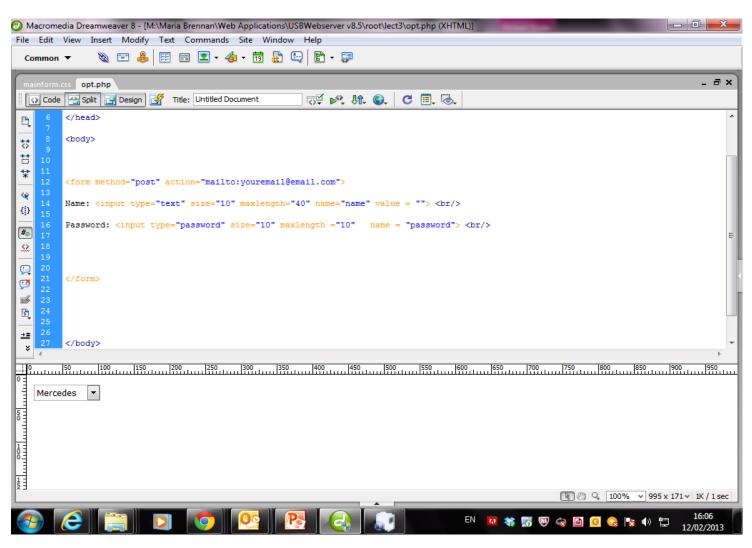
Name: <input type="text" size="10" maxlength="40" name="name" value = " ">

</form>



Name:

Password:

































INPUT TAG - TEXT FIELDS

Every form should have at least a SUBMIT button

 May also have a RESET button or user named button also.

 Submit button should be the last item of your form and have its

name attribute set to "Send" or "Submit".

ATTRIBUTES OF BUTTONS

- Type identifies the type of button
- Submit button activates the Action attribute of the form when clicked
- Reset attribute resets all controls on the form to the default values when it's clicked
- Attribute of type button creates a
 Javascript button which can activates a
 Javascript OnClick() method



INPUT TAG - BUTTONS

- Examples of buttons
- •<input type = "submit" value =
 "Submit">
- -<input type = "reset" value = "Reset">
- •<input type = "button" value = "Enter
 data">



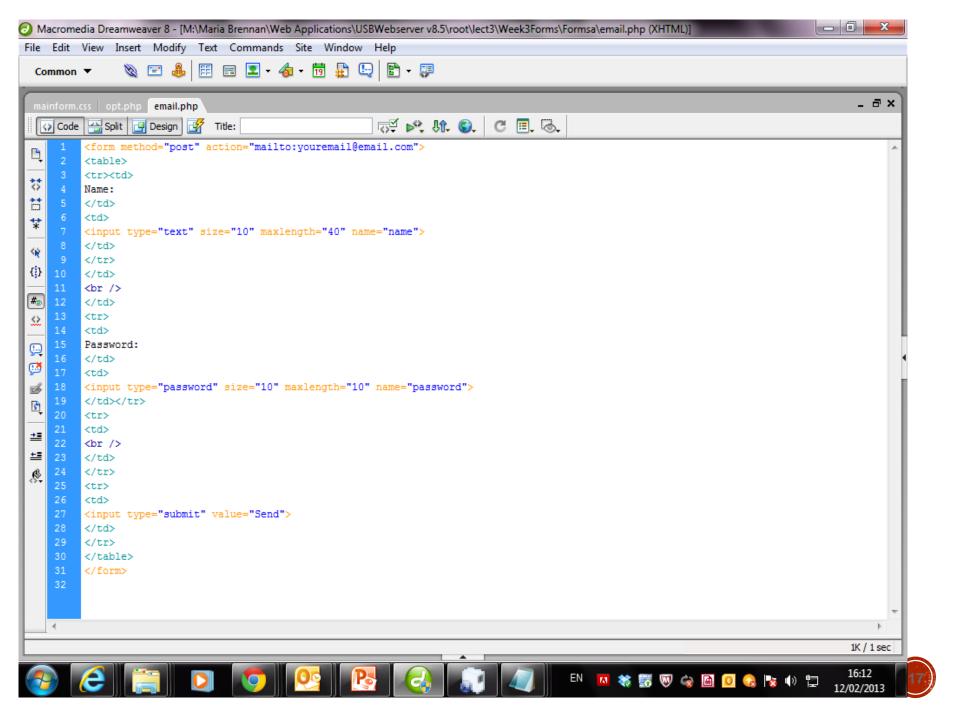
INPUT TAG - SUBMIT BUTTON

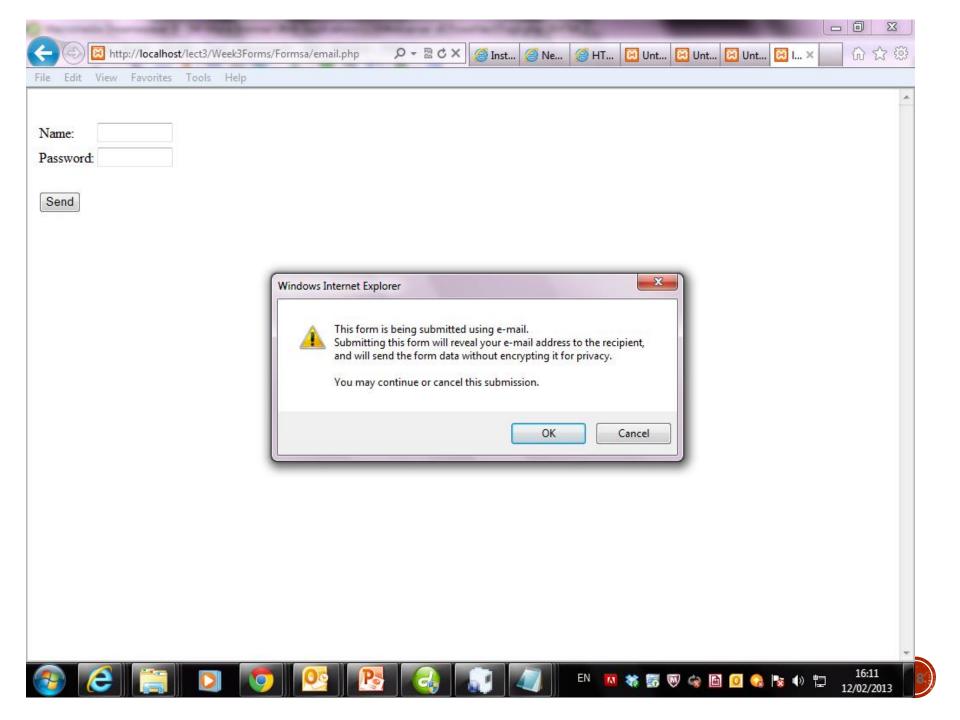
- Now add the submit functionality to your form.
- •Must also add a destination for information on the form and specify how you want it to travel to that place.
- •Add the following attributes to your <form> does this.
- action Specifies the URL to send the data to ...a fake email address in this example
- ■method use <u>GET</u> or <u>POST</u> methods
- POST sends the data without displaying any of the information to the visitor.
- •GET sends the data and displays the information

HTML FORM EWAIL CODE

Name: Password: Send

Simply change the email address to your own and you will have set up your first functional form!





INPUT TAG - RADIO BUTTONS

- Radio Buttons are used when you want the user to select one of a limited number of choices
- •Radio buttons are a popular form of interaction ...on quizzes, questionnaires, and other web sites that give the user a multiple choice.
- Attributes of the radio button.
 - *type* "radio" for radio button
 - name defines which set of radio buttons that it is a part of
 - value specifies what will be sent if the user chooses this radio button.
 - Only one value will be sent for a given group of radio buttons (see name for more information).
 - checked selects a control
- Example has 2 groups of radio buttons: shade and size
- Note that only one option can be chosen.



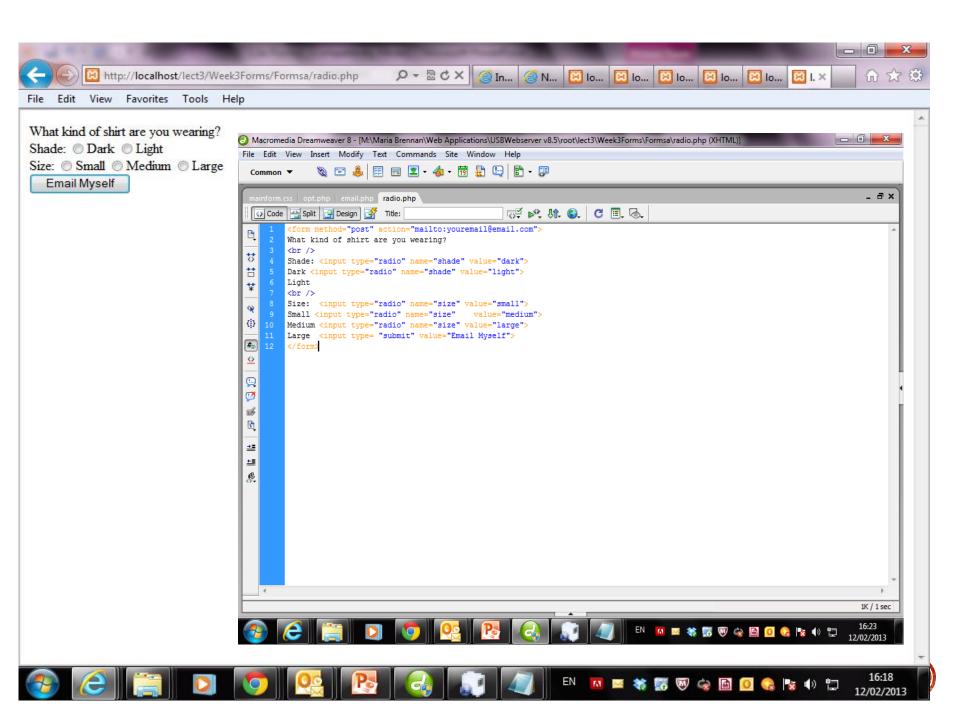
INPUT TAG - RADIO BUTTONS

What kind of shirt are you wearing? Shade: ODark OLight Size: O Small O Medium O Large Email Myself



Input Tag - Radio Buttons

```
<form method="post" action="mailto:youremail@email.com">
What kind of shirt are you wearing?
<br />
Shade:
<input type="radio" name="shade" value="dark">
Dark
<input type="radio" name="shade" value="light">
Light <br />
Size:
<input type="radio" name="size" value="small">
Small
<input type="radio" name="size value="medium">
Medium
  <input type="radio" name="size" value="large">
Large
  <br />
<input type="submit" value="Email Myself">
</form>
```



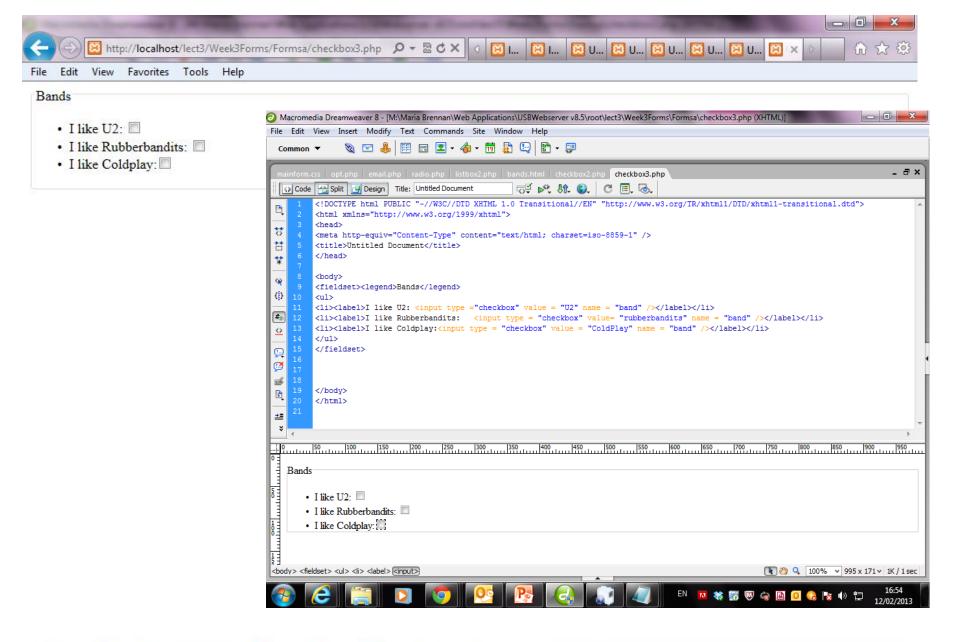
INPUT TAG - CHECKBOXES

- Checkboxes are used when you want the user to select one or more options of a limited number of choices
- •The check box's *name* and *value* and checked attributes behave the same as a radio button.

Note: [] with checkboxes

I have a bike:
I have a car:

I have an airplane: 🗹





DROPDOWN MENU

- A drop-down box is a selectable list.
- •Drop down menus are created with the <select> and <option> tags.
- •<select> is the list itself and each <option> is an available choice for the user.

```
<form action="">
<select name="cars">

<option value="volvo"> Volvo

<option value="saab"> Saab

<option value="fiat"> Fiat

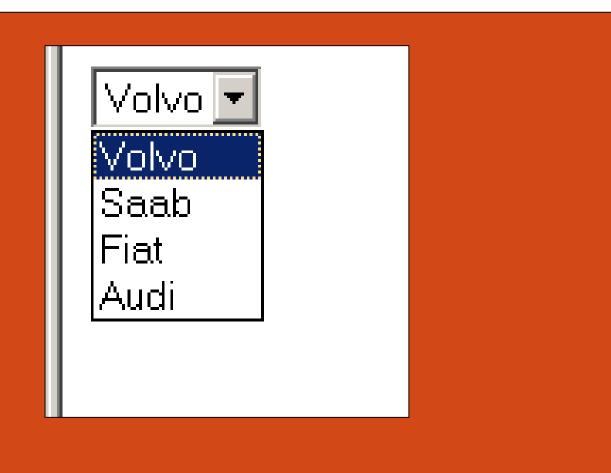
<option>

<option value="audi"> Audi

</select>

</form>
```

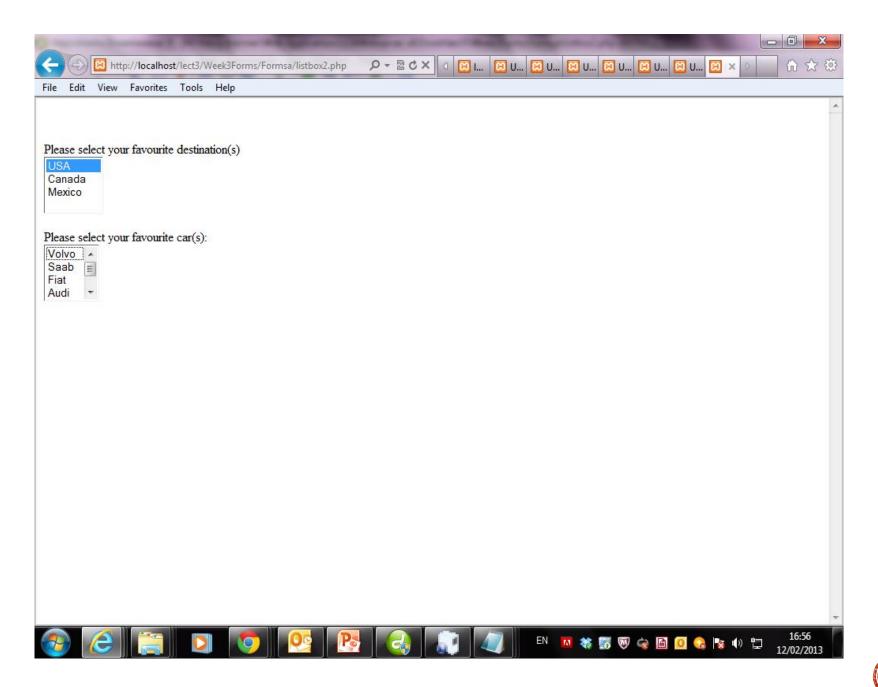
DROPDOWN MENU



DROPDOWN MENU

- •Another type of form, a highlighted selection list.
- •size attribute selects how many options will be shown at once before needing to scroll
- •selected option tells the browser which choice to select by default.





LIST BOX SELECTION

 Convert a drop down menu to a list box by adding the multiple attribute

LIST BOX SELECTION

•If the user is allowed to select more than one item for the list then an array should be used:

```
<form action="">
<select name="cars[]" multiple>
<option value="saab">Volvo</option>
<option value="fiat">Fiat</option>
<option value="audi">Audi</option>
</select>
</form>
```

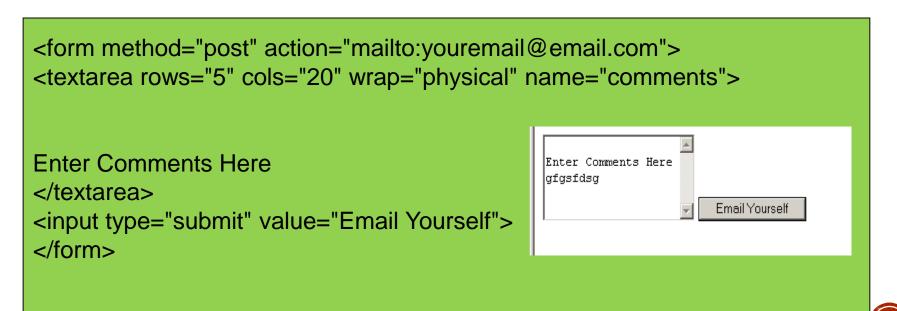
TEXTAREA

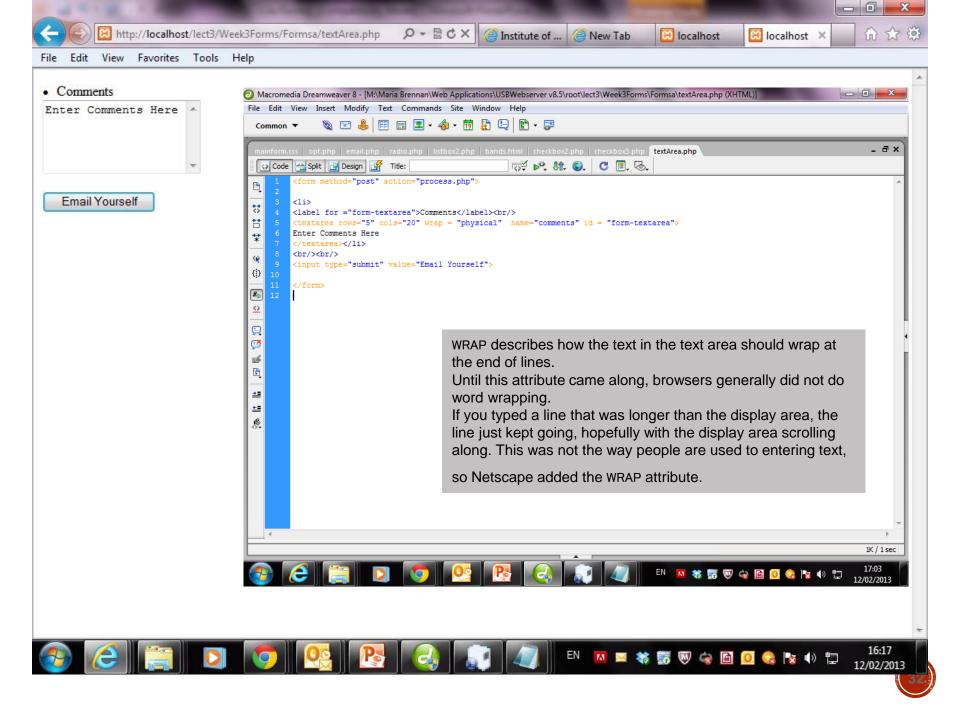
A user can enter text in a text area.

Attributes;

Rows – number of visible lines in text are. A scroll bar appears if the number of lines in the text box exceeds this setting.

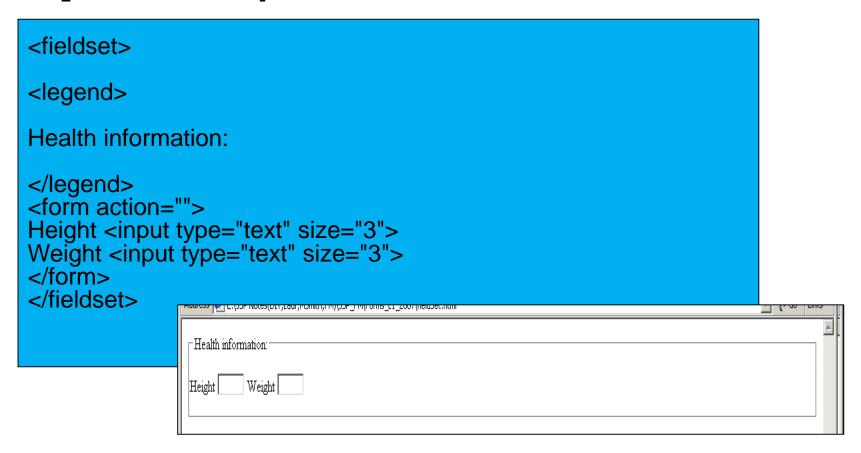
Cols – specifies width of text area





FIELDSET AROUND DATA

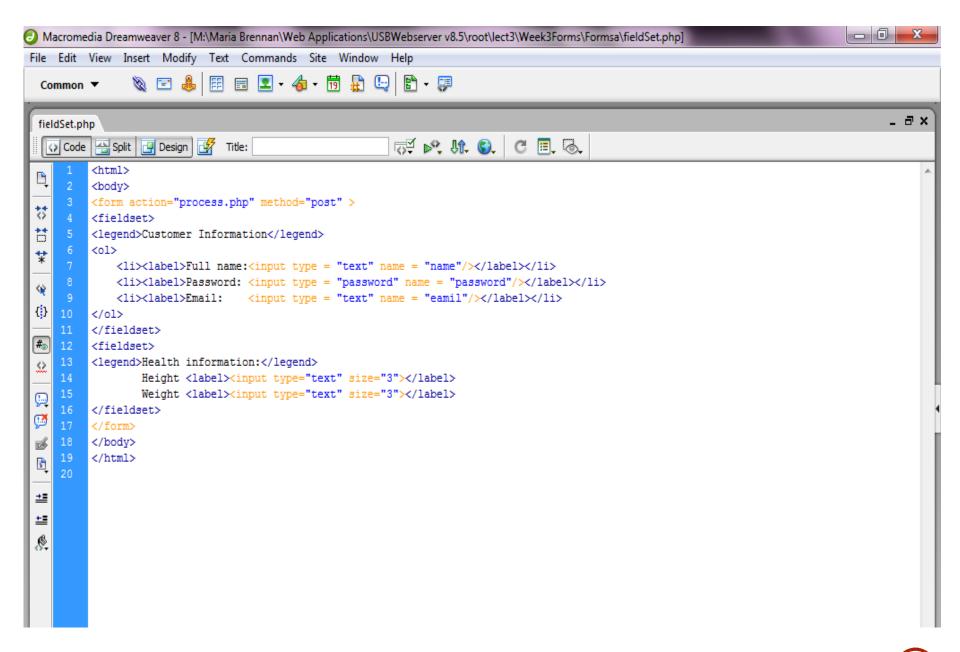
This example demonstrates how to draw a border with a caption around your data.





 Create a form that contains the following fieldset details:

Customer Information
1. Full name: 2. Password: 3. Email:
Health information: Height Weight



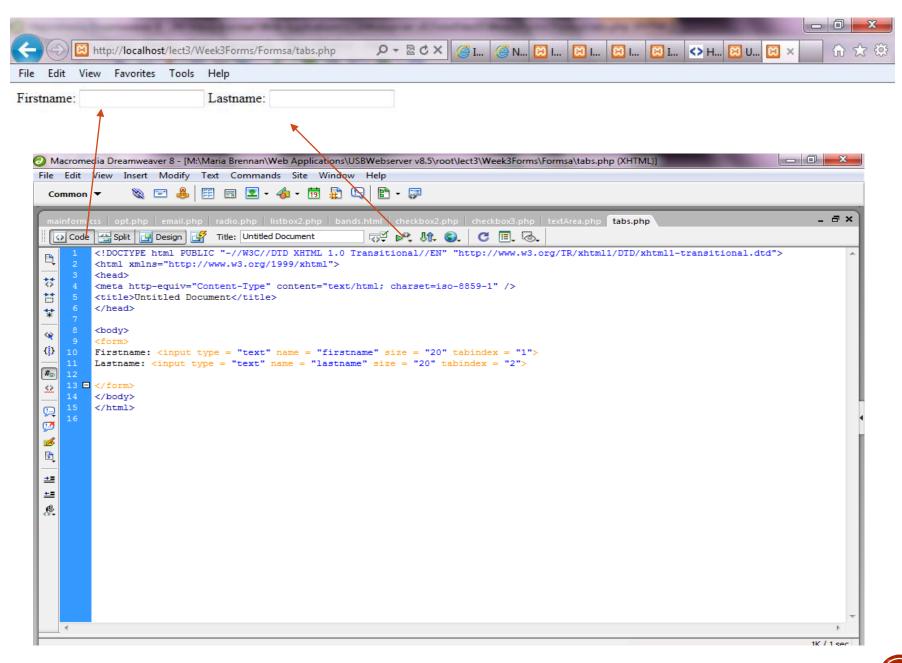
DISPLAY IN BROWSER

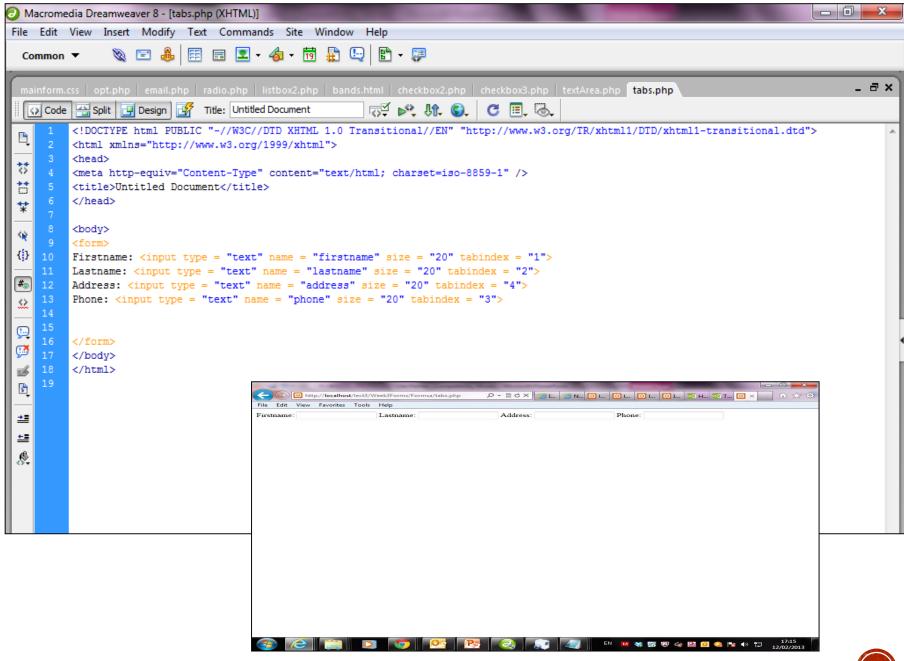
File Edit View Favorites Tools Help	
Customer Information	
1. Full name: 2. Password:	
3. Email:	
Health information: Height Weight	

SET TAB ORDER OF CONTROLS

- Tab order determines the sequence in which the controls on a form receive the focus from the tab key when the Tab key is pressed
- By default, tab order is same as the sequence in which the controls are coded in HTML document
- To modify tab order use the tabindex attribute

```
<input type = "text" name = "firstname" size = "20" tabindex = "1"> <input type = "text" name = "lastname" size = "20" tabindex = "2">
```





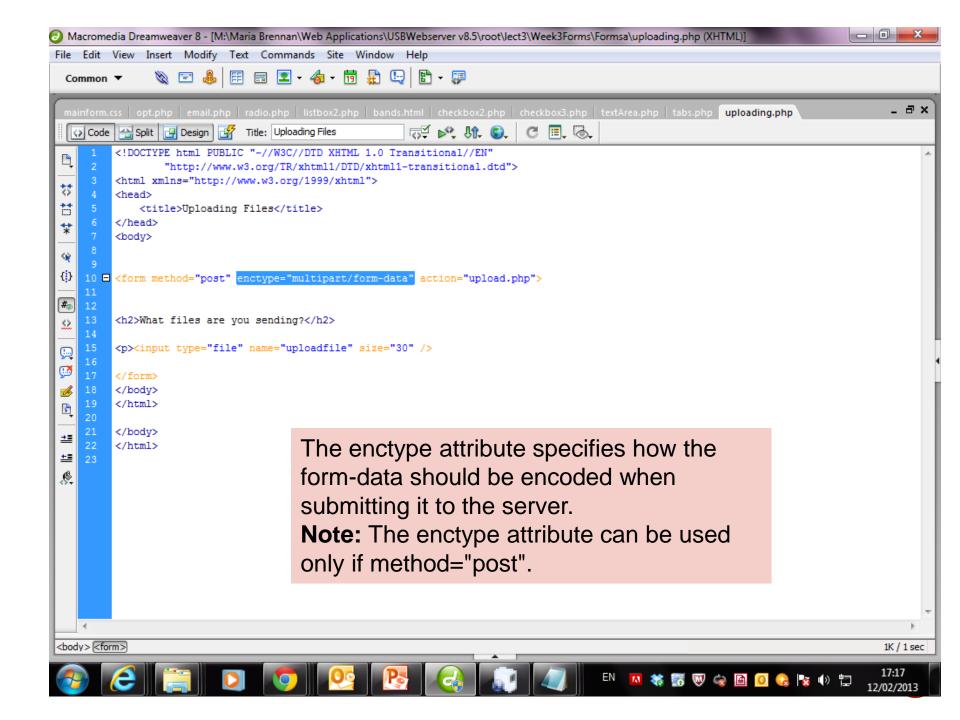
File Uploading

- You can also provide a facility to upload files using the following code:
- enctype="multipart/form-data" (must be included)
- <input type = "file" ...>

```
<form enctype="multipart/form-data" action="upload.php" method="post" >
<h2>What files are you sending?</h2>
<input type= "file" name="uploadfile" size="30" />
</form>
What files are you sending?

Browse...
```







What files are you sending?

Browse...



































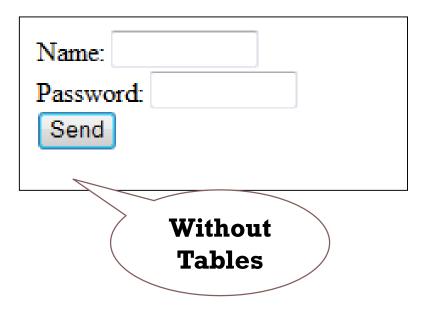


Forms using Tables

First Name:			Personal Information
Last Name: Address:			Please enter your name and address as they are listed for your debit card, credit card, or bank account.
City:			
State:	Select a State/Province	~	
Zip/Postal Code:			
88.00			
Country:	OS - United States	~	
2.5	ion ————————————————————————————————————		Contact Information
ntact Informat	ion —		Please enter your full email address, for example,
2.5	ion ————————————————————————————————————	r email	Please enter your full email address, for example, name@domain.com It is important that you provid a valid, working email address that you have access to as it
ntact Informat	How to Contact You? Phone Email We will never sell or disclose your address to anyone. Once your assetup, you may add additional er addresses.	r email ccount is mail	Please enter your full email address, for example, name@domain.com It is important that you provide a valid, working email address

FORMS AND TABLES

- Tables are a great way to align form details in a neat orderly fashion.
- The following examples show with and without table formats:





FORMS AND TABLES

Example without using a Table

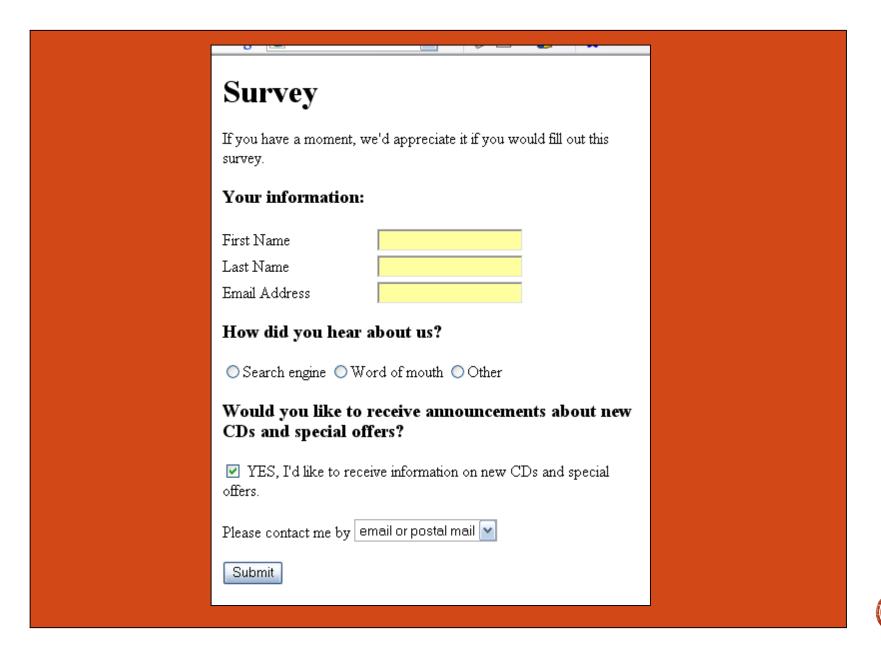
Name:
Password:
Send

FORMS AND TABLES

Example using a Table

Name:	
Password:	
Send	

What form elements are on this form?



FORMATTING FORMS WITH CSS



RECAP - CSS

Block Level Elements

- force a line break before and after the element.

Inline Level Elements

- appear inline with the text and do not cause line breaks.

Replaceable Inline Elements

– These elements insert content into the page. They have dimensions for width and height. eg. Images

BLOCK LEVEL ELEMENTS

- <div>
- <h1, h2, h3.....h6>
- ●
- <blockquote>

Definition List

- <dd>
- <dl>
- <dt>

- Ordered List:
- Unordered List:
- List Item
- •
- <
- >

INLINE ELEMENTS

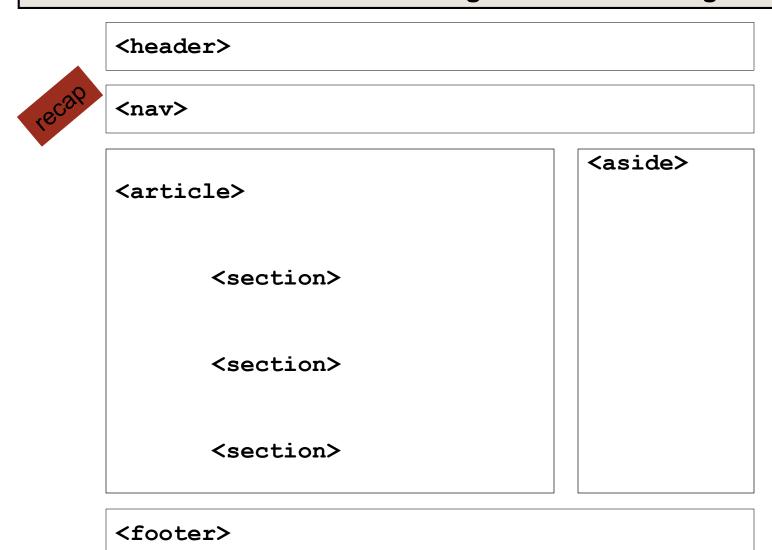
-
- <a>>
-
- <code>
-
- (fixed width)
- <sub>(subscript)
- <sup>(superscript)

There were more inline elements, in previous versions of HTML, but they have now become deprecated features.

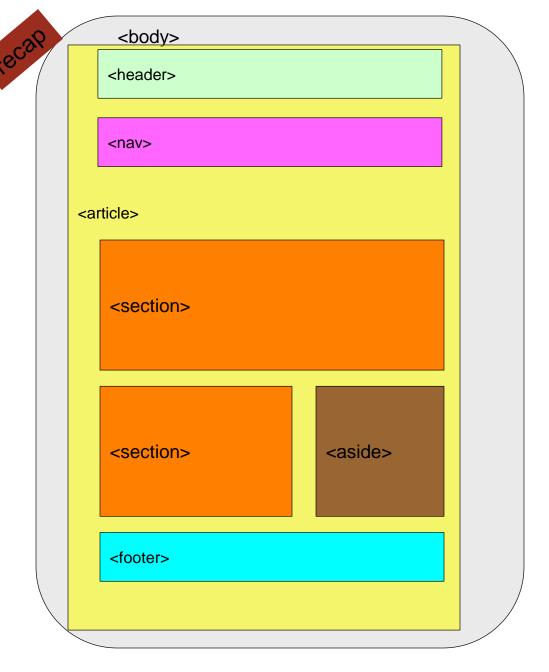
INLINE ELEMEN'TS

- These all have defined dimensions for width and height.
 -
- Form elements
 - <input>
 - <select>
 - <textarea>

New HTML5 Elements – for defining Structure of a Page







An HTML5 page illustrating the use of header, nav, section, aside, and footer elements.

APPLYING A STYLE TO ALL ELEMENTS ON THE PAGE

CSS— External Style Sheet

CSS rules may be declared using:

- any HTML element (tag) selector e.g.
 - **b**ody, br, h1...h6, p
 - table, tr,td,th,caption
 - ul, ol, li, dd,dt
 - and now...... form, fieldset, legend, input, selectetc.
- class selectors
- id selectors

ID SELECTOR

- Used with <u>single</u> instances of an HTML element
- id attribute is set to a unique name
- Can only be used once

```
syntax
```

```
#idname {
property: value;
property:value;
... }
```

```
<u>example</u>
#idEgl {
font-family:sans-serif;
 border: thin solid red;
 padding-left: lpx;
        color:#330;
<div id="idEg1">
This text is enclosed in a
 block defined by div
</div>
```

APPLYING STYLES TO IDS & CLASSES

To apply a style to an element based

on the value of its id attribute

#id {styles}

NOTE: # sign before id

Class attribute

Used to identify a group of elements

To apply a style to a group of elements based on value of class attribute

.class {styles}

 NOTE: dot before classname

FORM ELEMENTS CSS AND FORMS



<input type="text" name="lastname" value="lastname">

Input type

• Name: The name attribute is used to reference elements in a JavaScript, or to reference form data after a form is submitted.

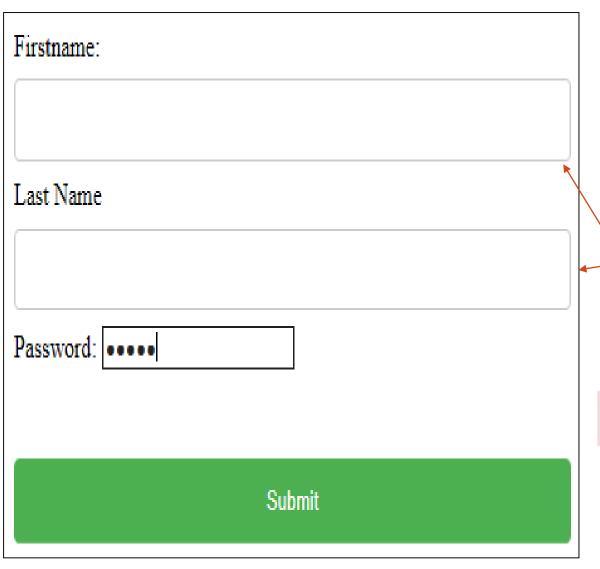
<INPUT TYPE="TEXT" NAME="LASTNAME" VALUE="LASTNAME">

- Value :The value attribute specifies the value of an <input> element.
- The value attribute is used differently for different input types:
 - ❖ For "button", "reset", and "submit" it defines the text on the button
 - For "text", "password", and "hidden" it defines the initial (default) value of the input field
 - For "checkbox", "radio", "image" it defines the value associated with the input (this is also the value that is sent on submit)



Laying out a Form using CSS

- •Then you can <u>float them</u> within the form and lay out the form just like you would any other block element.
- If your labels have large amounts of text, you'll need to play with the widths.



You are being specific here input[type=text]{ width: 100%; padding: 12px 20px; margin: 8px 0; display: inline-block; border: 1px solid #ccc; border-radius: 4px; box-sizing: border-box; The CSS3 box-sizing property allows us to include the padding and border in an element's total width and height. If you set box-sizing: border-box; on an

An alternative to using a table for nice layout!

element padding and border are included in the

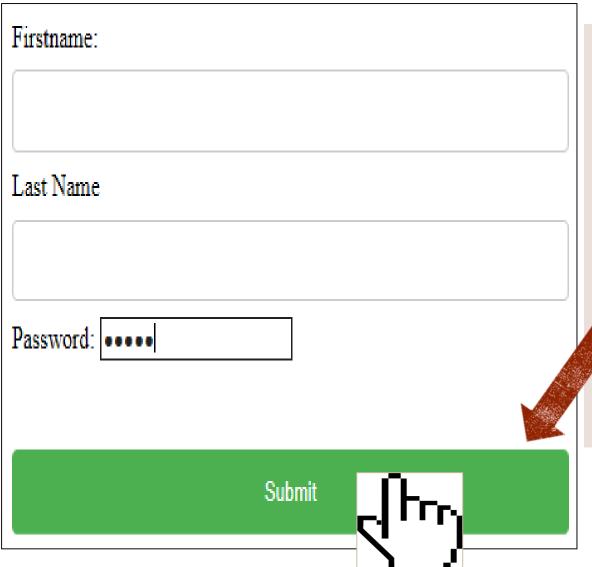
width and height:

Label.html formatted with label.css

```
Firstname:
Last Name
Password:
                        Submit
```

```
input[type=submit]
  width: 100%;
  background-color: #4CAF50;
  color: white;
  padding: 14px 20px;
  margin: 8px 0;
  border: none;
  border-radius: 4px;
  cursor: pointer;
input[type=submit]:hover
  background-color: red;
```





```
input[type=submit]
  width: 100%;
  background-color: #4CAF50;
  color: white;
  padding: 14px 20px;
  margin: 8px 0;
  border: none;
  border-radius: 4px;
  cursor: pointer;
 put[type=submit]:hover
  background-color: #45a049;
```

```
form{
                    width: 50px;
                    border: 3 px blue;
                    background-color: olive;
Firstname:
                    padding: 4em;
LastName:
                    etc.
Password:
    Submit
                  input[type=submit] {
                     background-color: red;
                       width: 14em;
                       border: 3px red;
                       background-color:pink;
                       padding: 4em;}
```

FIELDSET & LEGEND....

- Fieldsets and Legends make your forms more usable
- Help group similar portions of your form together under a heading
- Most people can't process more than 5 to 7 items at a time
- If your form is longer than that, you'll want to group it into sections.
- Can create a fieldset without a legend, but the legend adds even more usability
- Can style fieldset and legend
- Looks nice ©

FIELDSET & LEGEND....

```
<fieldset>
<le>end>Phone Numbers</le>end>
    <label for="home">Home Phone</label>
    <input type="text" name="home"</pre>
id="home">
<br>
    <label for="work">Work Phone
    <input type="text" name="work"</pre>
id="work">
< br >
    <label for="cell">Cell Phone/label>
    <input type="text" name="cell" id="cell">
</fieldset>
                             fieldsetLegend.html
```

Styling with Fieldset & Labels

Phone Numbers	
Home Phone	
Work Phone	
Cell Phone	

Personal Details
Firstname:
Last Name
Password:
Submit

STYLING FIELDSET & LEGEND.....

Fieldset - Border, width, colour Legend - Colour, padding Input & labels - Float left As before Display as block Width --- x

Input

- color, width

Label

- color, width

STYLING THE FIELDSET, LEGEND & INPUT

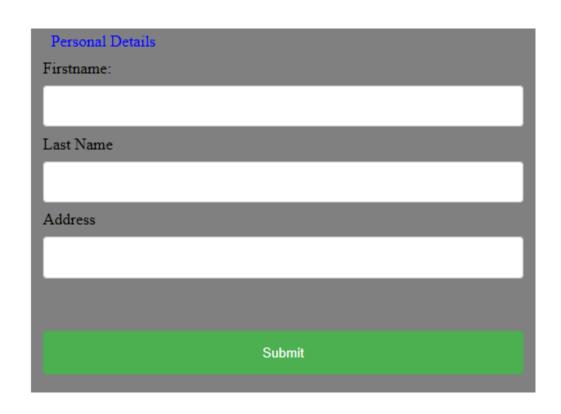
Styling with Fieldset & Labels

Phone Numbers	
Home Phone	
Work Phone	
Cell Phone	

Personal Details	
Firstname:	
	1
	J
Last Name	
	1
	Л
Address	
	1
	Л
Submit	
Submit	



STYLING THE FIELDSET, LEGEND & INPUT



```
fieldset
   border: 0.9em;
   width: 30em;
   background-color: grey;
legend {
 border: 10;
 background-color: grey;
 color: blue;
 padding: 0.2em 0.5em;
```

OPTGROUP TAG....1



Optgroup Tag works with drop-down or select lists the same way that member works with entire forms.

- Surround your option elements with the optgroup element.
- Adds headlines and groupings to your options list
- Makes them easier to understand and use especially for long lists
- Can style your optgroup to provide color coding or other visual cues to the different sections.
- Some browsers display the *optgroup* labels in bold text, others with a dark background colortest in multiple browsers

STYLED OPTGROUP....2

```
Name your favorite pet
<label id = "pets" >Name your favorite pet
                                  dog
<select name="pets" id = "pets">
                                   mammals
 dog
                                      cat
                                      rabbit
horse
                                   reptiles
                                      iguana
</select>
                                      snake
</label>
                                    optGroup.html
```

STYLED OPTGROUP.....

optGroup.css

```
select {
background-color: yellow;
optgroup {
background-color: tan;
color:brown;
font-weight: bold;
optgroup option {
background-color: khaki;
 color:#000;
```

Login Form - no Styles Applied

```
<form action = "showform.html" method = "post" >
<br
<label for = "name" >Username: </label>
         <input type="text" name = "name" id = "name" >
<br
<label for = "password" > Password: </label>
         <input type="password" name = "password" id = "password" >
<br
         <input type="submit" id="submit" value="Submit" >
          <input type="reset" id="reset" >
<br>
</form>
                      Firstname:
                      Lastname:
                      Password:
                       Submit
                       Reset
```

Login Form – Style Applied

login.html



```
input[type=text]{
 width: 30%;
 padding: 12px 20px;
 margin: 8px 0;
 display: inline-block;
 border: lpx solid #ccc;
 border-radius: 4px;
 box-sizing: border-box;
input[type=submit] {
 width: 10%;
 background-color: #4CAF50;
 color: white:
 margin: 8px 0;
 border: none:
 border-radius: 4px;
 cursor: pointer;
 padding-left: 20px;
input[type=reset] {
 width: 10%:
 background-color: #4CAF50;
 color: white;
 margin: 8px 0;
 border: none;
 border-radius: 4px;
 cursor: pointer;
 padding-left: 20px;
```

COLOUR ON FORMS ...

- Colors on form elements make them a lot more usable, easier to understand and fill out.
- Like with almost all HTML elements, you can change the background colors, foreground or text colors, and border colors.
- Modifying the form colors is a great way to improve their usability

Username:
Password:
Submit

View login2.html



Login Form – Style Applied



```
fieldset
{
    border: 0.9em;
    width: 30em;
    background-image: url("back.jpg");
}
```

ANOTHER FORM STYLING EXAMPLE

```
<form action = "#" method = "post">
<label for="user">Name</label>
                                  <input type="text" name="user" id = "user" >
           <br/>br>
<label for="emailaddress">Email Address:</label>
                                  <input type="text" name="emailaddress" id = "emailaddress" >
        <br/>br>
<label for="comments">Comments:/label>
                                  <textarea name="comments" | id = "comments" | ></textarea>
             <hr>>
<a href="label"><a href="label
                                  <input type="checkbox" name="terms" id = "terms" >
              <br/>br>
                                  <input type="submit" name="submitbutton" id="submitbutton"
                                 value="Submit" >
  <br/>hr>
</form>
```

1. FORM WITHOUT ANY CSS

Name	
Email Address:	
Comments: Agree to Terms?	<u>~</u>
Submit	

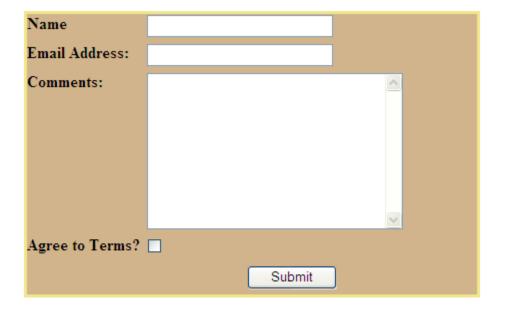
2. STYLING THE FORM WITH CSS

```
label{
  display:block;
width: 120px; font-weight: bold;
input, textarea{
width: 180px;
margin-bottom: 5px;
textarea{ width: 250px; height: 150px;
```

```
#terms{
width: 1em;
#submitbutton{
margin-left: 120px;
margin-top: 5px;
width: 90px;
```

3. FORM STYLED WITH CSS

```
form{
margin-left: 100px;
width: 450px;
background-color: tan;
border: 3px solid khaki;
}
....
```



STYLING A FORM

- Can use CSS with any of the following:
 - Form
 - Input
 - Fieldset
 - Legend
 - Select
 - Text, textarea, optgroup, optgroup option, button etc.

STYLING A FORM

- No hard and fast rules for styling
- Tips overleaf
- Plan the visual layout of your form in advance

- set body background color (if appropriate)
- set form padding / margin to zero (then override if appropriate)
- set form width, background-colour, border.
- set form list items to list-style none [if using lists]
- create fieldsets and write legends
 - may need small right margin, to separate labels from inputs

RADIO BUTTONS - RECAP

- You can only select one radio button from a group
- They all have the <u>same</u> name attribute
- They all have different values

Size:

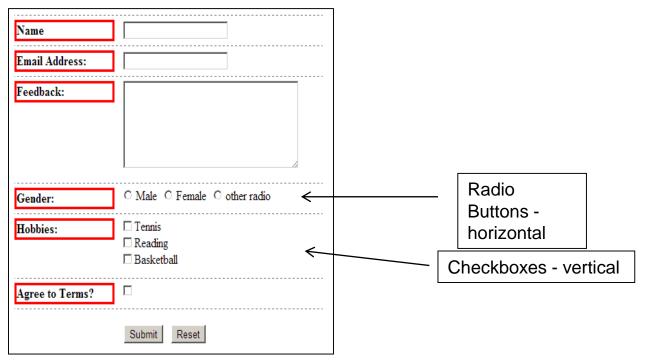
```
Size: O Small O Medium O Large
```

```
<input type="radio" name="size" value="small">Small
<input type="radio" name="size" value="medium"> Medium
<input type="radio" name="size" value="large">Large
<br/><br>
```

CHECKBOXES — RECAP

• <input type = "checkbox"> They all have a <u>different</u> name attribute name, value, id = "different for each" <input type= "checkbox" name="bike" id = "bike"</pre> value ="bike" >Bike
 <input type= "checkbox" name="car" id = "car"</pre> value= "car" >Car
 <input type= "checkbox" name="bus" id ="bus"</pre> value="bus" >Bus

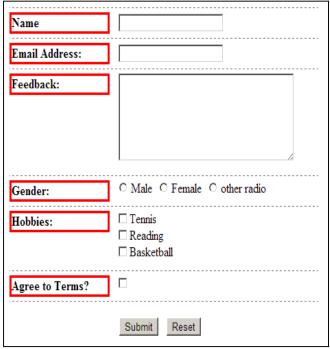
Form with Radio Buttons & Checkboxes



1. RADIO BUTTONS — ALIGN HORIZONTALLY

 This form (choice.html) is styled as if it were composed of 2 columns: labels on the left and form input fields on the right

 Going to line up the radio buttons horizontally within a styled form



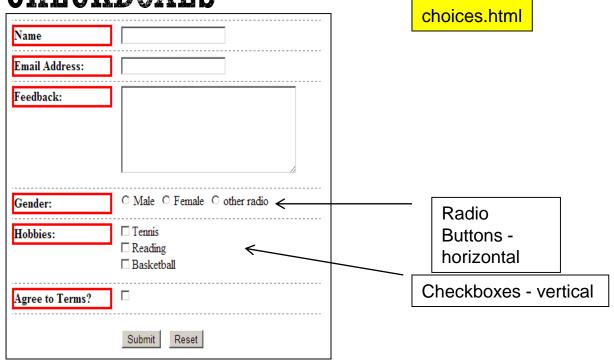
1. CHECKBOXES — ALIGN VERTICALLY

- Going to align the checkboxes vertically, relative to the labels
- · Label on left-handside
- Checkboxes one under the next on right-handside

Name	
Email Address:	
Feedback:	
Gender:	○ Male ○ Female ○ other radio
Hobbies:	□ Tennis □ Reading □ Basketball
Agree to Terms?	
	Submit Reset



FORM WITH RADIO BUTTONS & CHECKBOXES



CHOICES.HTML

Labels and input tags done, as in previous lecture

Using paragraphs tags to separate the various labels this time.

Radio Buttons

• class used around all the radio buttons in order to display the text beside the radio button

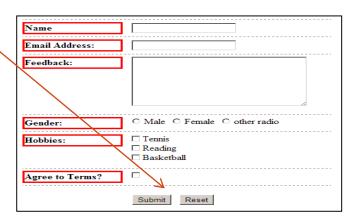
Checkboxes

•<class = "boxfix1"> put around 2^{nd} and 3^{rd} checkbox to align them with 1^{st} checkbox

Name	
Email Address:	
E 111	
Feedback:	
Gender:	○ Male ○ Female ○ other radio
Hobbies:	☐ Tennis
	□ Reading
	□ Basketball
<u></u>	
Agree to Terms?	
	Submit Reset

CHOICES.HTML

- <div id = "buttons"> put around the submit & reset buttons to align them in the centre of the form



CHOICES.HTML WITH LABELS (WILL COVER THESE AGAIN)

```
<label for="email">Email Address:</label>
       <input type="email" name ="email" id = "email" >
<label for="comments">Feedback:</label>
       <textarea name = "comments" id =
"comments"></textarea>label >Gender:</label>
       <input type="radio" name="gender" value = "male" >
<span class = "radio"> Male </span>
```

CHOICES.HTML

```
<label>Hobbies:</label>
  <input type="checkbox" name="tennis" id = "tennis" value = "tennis">
Tennis<br>
 <input type="checkbox" name="reading" id = "reading" value = "reading"</pre>
class="boxfix1" > Reading<br>
<input type="checkbox" name="basketball" id = "basketball" value =</pre>
"basketball" class = "boxfix1" > Basketball < br >
                                                       Email Address:
                                                       Feedback:
<div id = "buttons">
          <input type="submit" value="Submit" >
          <input type="reset" value="Reset" >
                                                                      O Male O Female O other radio
                                                       Gender:
                                                       Hobbies:
                                                                     □ Reading
</div>
                                                                     □ Basketball
                                                       Agree to Terms?
                                                                      Submit
                                                                            Reset
```

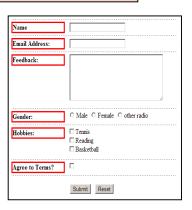
CHOICES.CSS

CHOICES.CSS

- Align all the input elements i.e using input tag in css
- i.e. <input type = " "> text, password, email, radio, checkbox

```
/* move ALL input fields in */
input{

margin-left: 10px;
}
```



CHOICES.CSS

```
/* radio span class -
radio buttons line up
horizontally*/
/* to align 2^{nd}, 3^{rd}
checkbox vertically */
boxfix1{
        margin-left: -
16px;
```

```
/* align buttons */
#buttons{
          margin-left:
150px;
                 O Male O Female
 Gender:
                 ☐ Tennis
 Hobbies:
                 Reading
                 □ Basketball
```

ALIGNING MORE RADIO BUTTONS HORIZONTALLY - HTML

```
Going to put in three radio buttons and align them
horizontally
<span> class is put around each radio buttons
<label>Card Type:</label>
  <input type="radio" name="card" value =</pre>
"visa" >
                   <span class = "radio"> Visa
</span>
  <input type="radio" name="card" value =</pre>
"access" >
                   <span class =</pre>
"radio">Access</span>
  <input type="radio" name="card" value =</pre>
"paypal" >
                   <span class =</pre>
"radio">Paypal</span>
```

No changes need to be made to css defined already (from previous program) /* used to line up radio buttons */ .radio{ float:left:

Aligning radio buttons horizontally & one row of checkboxes horizontally

Name	
Email Address:	
Feedback:	
Card Type:	O Visa O Access O Paypal
Hobbies:	☐ Athletics ☐ Basketball ☐ Canoeing
Agree to Terms?	
	Submit reset formboxes_Horizontal.html



ALIGNING CHECKBOXES HORIZONTALLY

```
Using a span class called box to line one row of
checkboxes up horizontally
<label>Hobbies:</label>
  <input type="checkbox" name="athletics"</pre>
value = "athletics" >
<span class = "box">Athletics </span>
 <input type="checkbox" name="basketball"</pre>
value = "basketball" >
<span class = "box">Basketball</span>
 <input type="checkbox" name="canoeing"</pre>
value = "canoeing" >
    <span class = "box">Canoeing</span>
<br>
```

Used the attribute selector for checkbox to line up checkboxes.
Used span class called box to float checkboxes
to left
/* used to line up checkboxes
*/
.box{
float: left;
}

Name	
Email Address:] [
Feedback:	
	C Vice C Assess C Provide
Card Type:	O Visa O Access O Paypal
Hobbies:	☐ Athletics ☐ Basketball ☐ Canoeing
	☐ Dancing ☐ Skating ☐ Swimming
Agree to Terms?] 🗆
	Submit reset

ALIGNING 2 ROWS OF CHECKBOXES HORIZONTALLY

- One way to align, the second row of checkboxes with the first row, is to create a blank label in order to set up the spacing correctly for the extra checkboxes.
- This blank label is called id = "row2"
- In our case, the blank label takes most of the CSS properties associated with the tag and the <label>



3. ALIGNING 2 ROWS OF CHECKBOXES HORIZONTALLY

```
<label>Hobbies:</label>
          <input type="checkbox" name="athletics" value</pre>
= "athletics" >
<span class = "box">Athletics </span>
 <input type="checkbox" name="basketball" value =</pre>
"basketball" >
 <span class = "box">Basketball</span>
 <input type="checkbox"name="canoeing" value =
"canoeing" >
 <span class = "box">Canoeing</span> <br>
<label id = "row2"></label>
 <input type="checkbox"name="dancing"value =</pre>
"dancing" >
  <span class = "box">Dancing</span>
 <input type="checkbox" name="skating" value =</pre>
"skating" >
  <span class = "box">Skating</span>
 <input type="checkbox" name="swimming" value =</pre>
"swimming" >
  <span class = "box">Swimming</span>
```

```
#row2
clear: left;
float: left;
display: block;
margin-bottom: 5px;
margin-right: 3px;
Email Address:
Feedback:
              ○ Female
Hobbies:

□ Reading

              ☐ Basketball
Agree to Terms?
              Submit Clear
```



ALIGNING RADIO BUTTONS & CHECKBOXES VERTICALLY

Name	
Email Address:	
Feedback:	
Gender:	○ Male ○ Female ○ XXX
Hobbies:	□ Tennis □ Reading □ Basketball
Agree to Terms?	
	Submit



4ALIGNING RADIO BUTTONS VERTICALLY

```
Code added for a 3rd radio button below
<br/>br> added after each radio button
Class "boxfix" created to align the 2<sup>nd</sup>, 3<sup>rd</sup> radio
button with first radio button
<label>Gender:</label>
  <input type="radio" name="gender" value
= "male" > Male
  <br>
<input type="radio" name=" gender "
value = "female" class="boxfix"> Female
<br>
<input type="radio" name=" gender "
value = "xxx" class="boxfix"> Other
```

```
/* using attribute selector for radio buttons -- input[type = "radio"] */
input[type = "radio"]{
               margin-left: 10px;
               margin-right: 5px;
/* used so that labels & radio buttons line up as expected */
.radio {
               float: left:
/* Position the second radio button etc - after a line break */
br + .boxfix{
                float:left:
                margin-left: -18px;
Name
Email Address:
Feedback:

    Male

Gender:

    Female

                         \circ xxx

□ Tennis

Hobbies:
                         □ Reading
                        ☐ Basketball
Agree to Terms?
                         Submit Clear
```



ALIGNING RADIO BUTTONS VERTICALLY

br +.boxfix

 Means: Select all elements in the class boxfix which are placed immediately after a
br> tag

CSS format:

Selector + selector (br + .boxfix)

 Selects all elements for 2nd selector which are placed immediately after the 1st selector



ALIGN CHECKBOXES VERTICALLY

```
<input type="checkbox" name="tennis" value = "tennis"</pre>
         id = "tennis"> Tennis<br>
<input type="checkbox" name="reading" value = "reading"</pre>
         id = "reading" class="boxfix1" > Reading<br>
<input type="checkbox" name="basketball" value =</pre>
"basketball" id = "basketball" class = "boxfix1" >
Basketball<br>
                     Feedback:
                                    O Male
                     Gender:

    Female

                                    \circ xxx
                     Hobbies:

□ Tennis

                                    □ Reading
                                    □ Basketball
                     Agree to Terms?
                                    Submit
                                           Clear
```



ALIGN CHECKBOXES VERTICALLY

```
/* Position the Checkboxes
vertically */
.boxfix1{
        margin-left: -16px;
```

Name	
Email Address:	
Emaii Address:	
Feedback:	
Gender:	○ Male
Gender:	
	C Female
	C XXX
Habbias.	□ Tennis
Hobbies:	□ Tennis
Hobbies:	□ Reading
Hobbies:	
Hobbies:	□ Reading
	□ Reading □ Basketball
Hobbies: Agree to Terms?	□ Reading
	□ Reading □ Basketball
	□ Reading □ Basketball
	□ Reading □ Basketball



RECAP ON SOME NEW CSS

- Can select a particular type of attribute using the attribute selector
 - input[type="text"]
 - input[type="password"]
 - input[type="radio"]
 - input[type="checkbox"]
 - input[type="submit"]

RECAP ON SOME NEW CSS

- Selector: element + element
- Example: div + p
- Means: Selects all elements that are placed immediately after <div> elements
- Example in notes:

br +.boxfix

• Selects all elements in the class boxfix which are placed immediately after a
br> tag



CSS & FORMS

- References:
- http://webdesign.about.com/od/forms/a/aa050707.htm
- http://www.cssdrive.com/index.php/examples/exampleitem/t ableless_forms/
- http://webdesign.about.com/od/htmltags/p/bltags_optgroup.
 htm
- http://usability.com.au/2013/04/accessible-forms-1-labels-and-identification/