Session 8

- Assessment 1 Deadline
 - Laying out Forms

Announcement - Assessment 1 Deadline

- The submission link is now live on myCourse



- Deadline 11:55pm Friday 11th December 2015
- Late submission is possible up to 11:55 pm on Friday the 18th December 2015. However, assessments handed in late can only achieve a maximum grade of 40%
- Assessment 1 is worth 50% of your final mark

Laying out forms

Forms are probably one of the more complex structures that you'll encounter in HTML. Therefor, making them layout correctly can prove somewhat tricky.

It's important that we design usable and accessible forms:

- More people will be able to fill out your forms
- You'll get more customers and make more money
- Accessible forms lead to a better overall user experience
- Well coded forms can easily utilise analytics packages such as Google Analytics

Consider the below form (source code here). As you can see by default it's completely unusable.

First Name	Last Name	Address
Line 1	Post Code	Credit Card
Number	Submit	

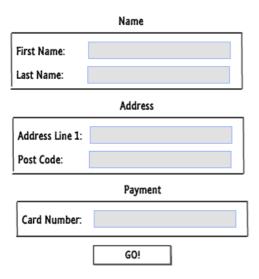
In the next few pages we're going to go through a typical design process that would be used to layout a form.

Wireframe Mock Up

It's tempting to jump straight in and start experimenting with HTML, designing the form as we go along. However, making design tweaks and experimenting with different layouts using HTML and CSS is time consuming.

Therefore, it's common practice to plan the layout of HTML pages using a wire frame. A wire frame allows us to focus purely on the layout of our pages, filtering out the finer more time consuming design choices. Wire frames can be created:

- By Hand
- Using a drawing tool such as photoshop
- Using one of the many online wire framing tools



We can now attempt to layout our form to resemble the wire frame.

The <fieldset> and <legend> elements

• The <fieldset> .. </fieldset> tag is used to group common form elements together

```
<fieldset>
    <label> First Name </label> <input type = "text" name="firstName">
    <label> Last Name </label> <input type = "text" name="lastName">
    </fieldset>
```

• By default, <fieldset> .. </fieldset> is a block level element and has a border, you should know how to change this using CSS

First Name	Last Name		

• We can use the <legend> .. </legend> element to add a title to our <fieldset>

```
<fieldset>
    <legend> Name </legend>
        <label> First Name: </label> <input type = "text" name="firstName">
        <label> Last Name: </label> <input type = "text" name="lastName">
        </fieldset>
```

_Nome			
_Name			
First Name:	Last Name:		
I not reamo.	Laot Hamo.		

Exercise 1

Use <fieldset> and <legend> to begin the process of laying out the form so it starts to resemble the mockup. It should resemble the below:

Name:
First Name: Last Name:
Address:
Address Line 1 Post Code
Day was also
Payment:
Card Number:
Submit

tags can be used to create separate lines

Input elements and labels are inline, therefore we need to wrap them in a block level elements so they sit on their own line. The W3C recommend to wrap form elements in tags in order create new lines.

<fieldset></fieldset>	
<legend> Name </legend>	
<label> First Name: </label> <input name="firstName" type="text"/>	
<label> Last Name: </label> <input name="lastName" type="text"/>	

Name	
irst Name:	
individuals.	
ast Name:	

Exercise 2:

Add tags to your form to group together form elements so that they sit on their own line.

Basic CSS For Forms

- In order to style this form we need to give the form and id <form id="payment">
- We can now style this specific form using decent selectors e.g. #payment legend {text-align: centre;}

Exercise 3: Let's add some styles to our form:

- Include a blank external style sheet
- Currently the form is too wide, let's give it a width:500px. Remember the <form> has an id attribute. We can use this to add styles
- Align the <legend> text to the centre, remember to use #payment legend {text-align: centre;}
- Ok, we're getting there, but the labels and inputs are not aligned with each other. At the moment the text within the <label> element is controlling the placement of the inputs.
- To solve this problem we need to float the text inputs to the right. The problem is we can't just say #payment input {float:right} because our button is also a input and we don't want to style this yet. We need to just target <input type="text"> in order to do this we can use the following CSS declaration:

```
#payment input[type="text"] {
   float: right;
}
```

- You can change the <code>input[type="<insert type>"]</code> to whatever type of input you want to target
- Your form probably is a little wide, adjust the css width property so it resembles the following:

	-Name
First Name	
Last Name	
	Address
Address Line 1	
Post Code	
<u> </u> 	Payment—————
Card Number	
Submit	

Further Styling Of Inputs

• You can change the can border colour and width of text inputs by implementing the border property

```
#payment input[type="text"] {
    border: 1px solid green;
}
```

• We can style our input button just like any other HTML element. Remember, we can change the text on the button from submit to anything we like by implementing the attribute value e.g. <input type="submit" value="GO!"> .

```
#payment input[type="submit"] {
    border-radius: 4px;
    border: solid 1px black;
    font-size:20px;
}
```

Press Me!

Laying Out/Styling Check And Radio Boxes

- We can use <fieldset> and optional <legend> to group together our related <input> 's
- Just like with any other input we can use tags to create a new line

Transport I have a bike I have a car
<fieldset> <legend> Transport </legend> <input name="vehicle" type="checkbox" value="Bike"/>I have a bike <input name="vehicle" type="checkbox" value="Car"/>I have a car </fieldset>

Styling Valid/Invalid Inputs

Remember in the last session, we looked at just how easy it is to validate forms using html5:

```
<input type="text" name="first_name" required>
```

You can specifically target valid and invalid form fields using the pseudo selector :valid and :invalid :

```
input:invalid {
   border: solid red;
}
input:valid {
   border:solid green;
}
```

If you only want to display validation formatting when the form field is in focus (someone has clicked on it), we can use the focus: selector along with :invalid or :valid :

```
input:focus:valid {
        border:solid green;
}
```

Weekly Task - Laying out Forms

The purpose of this task is to increase your understanding of how to layout forms.

1 Setup

Create the file <code>form_task.html</code> and place it in your internet tech/session8 folder. Copy the starting HTML source code from here <code>https://raw.githubusercontent.com/sirus21/Internet_technology/master/session8/practicals/session_8_main_task.html</code> and past it into form_task.html .

2 Lay out the form

As you can see, currently no consideration has been given to the layout of the form. Using the techniques we covered in this lecture, your task is to lay the form out. As a minimum you should:

- Use tags to divide inputs and labels into related lines
- Use fieldset and legend to group together common inputs
- · Ensure inputs and labels are aligned correctly
- Style the submit button

3 HTM5 validation

Apply an HTML5 validation to your form and use the :invalid or :valid pseudo class so users know if there input is valid.

4 Validate your HTML

Make sure your HTML is valid.

5 Update your learning log - for the last time

Make sure you update your learning log for the final time.