



HAZZA INSTITUTE  
OF TECHNOLOGY



# MERN – ES6 + React

*Module 02 HTML - II*

# Outline

## *Module 02*

- ▶ HTML Intermediate
- ▶ Tables designing using ordered and unordered list
- ▶ Actions based input tags
- ▶ Labels and display fields

# Tables

**Displaying your Data**

## **Tables Used to Be Evil**

**Tables are meant for  
tabular data, not for layout**

# Design

- **Make sure to sketch your layout *before* you code.**
- **Decide on the number of rows and columns**
- **Decide if any rows/columns will span multiple cells**

# The Tags

- **<table>** - the container tag
- **<tr>...</tr>** - the rows
- **<td>...</td>** - the columns

# Simple Table

One	Two	Three
Four	Five	Six
Seven	Eight	Nine

```
<table>  
  <tr><td>One</td><td>Two</td><td>Three</td></tr>  
  <tr><td>Four</td><td>Five</td><td>Six</td></tr>  
  <tr><td>Seven</td><td>Eight</td><td>Nine</td></tr>  
</table>
```

# Table Headings

- How would you add table headings?  
(The bold cells at the top that define the data.)
- Some people use bold font, we use *semantic tags*
- `<th>..</th>` -- table heading



# Table Headings

Row One	Row Two	Row Three
One	Two	Three
Four	Five	Six
Seven	Eight	Nine

```
<table>
  <tr><th>Row One</th><th>Row Two</th><th>Row Three</th></tr>
  <tr><td>One</td><td>Two</td><td>Three</td></tr>
  <tr><td>Four</td><td>Five</td><td>Six</td></tr>
  <tr><td>Seven</td><td>Eight</td><td>Nine</td></tr>
</table>
```

# Spanning Multiple Cells

- It may be the case that your table won't be a perfect grid.
- You can combine multiple rows and/or columns using the **rowspan** and **colspan** *attributes*.

```
<table border = "1">
  <tr>
    <th>Child's Name: </th><th>Parent's Name: </th>
  </tr>
  <tr>
    <td rowspan="2">Catherine</td><td>Michael McCarthy</td></tr>
  <tr>
    <td>Colleen McCarthy</td>
  </tr>
  <tr>
    <td>Maggie</td> <td>Sheila McGee</td>
  </tr>
  <tr>
    <td rowspan="2">Edward</td><td>Catherine Howard</td>
  </tr>
  <tr>
    <td>Jeff Howard</td>
  </tr>
</table>
```

<b>Child's Name:</b>	<b>Parent's Name:</b>
Catherine	Michael McCarthy
	Colleen McCarthy
Maggie	Sheila McGee
Edward	Catherine Howard
	Jeff Howard

# Captions

- **How do you link text to the table? A heading (h2, h3, etc.) will look good, but doesn't provide semantics.**
- **Use `<caption>`**

# Simple Forms

# Forms

- One place where you often see JavaScript is in form validation

**Personal Information:**

**Name**

**Email:**

**Birth**

[Click Here](#)

# Forms

- Forms add a new layer to the Request-Response Cycle



# Web Development

- Front end
  - What you are developing... What happens on the browser/client side
  - HTML, CSS, JavaScript
- Back end
  - What the server is handling
  - Python, Ruby, PHP, Perl, Java, Node

# HTML Form Tags

`<form>`

`<label>`

`<input>`

```
<form>
```

```
  <label for='name'>Name</label>
```

```
  <input type='text' id = 'name' name = 'name'> <br/>
```

```
  <label>Email: <input type='email' name = 'email'></ label><br/>
```

```
  <label for='birth'>Birth</label>
```

```
  <input type='date' id = 'birth' value = 'birth'><br/>
```

```
  <input type = 'submit' value =“Click Here”>
```

```
</form>
```

**Personal Information:****Name** **Email:** **Birth** [Click Here](#)

Chrome

**Personal Information:****Name** **Email:** **Birth** [Click Here](#)

Firefox

# Form elements have attributes

- **type**
- **name**
- **id**

# Input Types

- textfield
- email
- password
- radiobutton
- checkbox
- submit

## More input types

- **number**
- **range**
- **color**
- **date**
- **url**

# Attributes

- name
  - Almost all input types should have a name attribute
  - The name attribute is assigned whatever value is input
- id
  - Used for labels
  - Used for by JavaScript

# Additional Attributes

- value
  - button: text inside the button
  - textfield: provides a default value
    - If not changed, will be the value passed to the server
- placeholder
  - Provides a suggestion
  - Not an “official” value



# HTML5 Multimedia

- **Designed to avoid the use of extra software to play music/video**
- **Not fully implemented**

# Video element `<video>`

- **Video tag uses a `src` attribute or embedded `<source>`**
- **Common attributes**
  - **height, width**
  - **autoplay**
  - **loop**
  - **controls**
- **Text inside `<video>..</video>` is displayed if browser can not support tag**

# Audio element `<audio>`

- **Audio tag uses a `src` attribute to link to audio file, typically `.mp3` or `.wav`**
- **Common attributes**
  - **`autoplay`, `controls`, `loop`**
  - **`buffered`**
  - **`muted`**
  - **`volume`**

# Summary

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