Fundamentals of Web Media Technology

Unit 3

Lecture Overview

HTML Tables | Forms

Lecture Overview

TOPIC	OBJECTIVES
HTML Tables ➤ **INTRODUCTION**	Tables present data in a 2-dimensional structure of rows and columns that enables an organization of data by viewing it on 2 different axes.
HTML Tables (long) ➤ **STRUCTURE**	Table Elements | thead, tbody, tfoot
HTML Tables ➤ **OLD CODE**	Table Attributes | width, height, color, bgcolor, align, style, cellspacing, cellpadding, etc.
HTML Forms (Intro)	Form Element | 9 basic form controls

HTML Tables

Table <table> | Table Row <tr> | Table Cell <td> | Table Header <th>

Table Examples

Tables - Basic Code

```html
<table>
    <tr>
        <td>[1 1]</td>
        <td>[1 2]</td>
        <td>[1 3]</td>
    </tr>
    <tr>
        <td>[2 1]</td>
        <td>[2 2]</td>
        <td>[2 3]</td>
    </tr>
    <tr>
        <td>[3 1]</td>
        <td>[3 2]</td>
        <td>[3 3]</td>
    </tr>
</table>
```
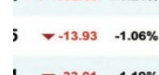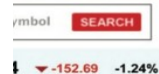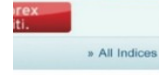
[1 1]	[1 2]	[1 3]
[2 1]	[2 2]	[2 3]
[3 1]	[3 2]	[3 3]

Tables – Spanning a Column

```html
<table border="1">
    <tr>
        <td colspan="2">[1 1]</td>

        <td>[1 3]</td>
    </tr>
    <tr>
        <td colspan="3">[2 1]</td>
    </tr>
    <tr>
        <td>[3 1]</td>
        <td>[3 2]</td>
        <td>[3 3]</td>
    </tr>
</table>
```

[1 1]		[1 3]
[2 1]		
[3 1]	[3 2]	[3 3]

Known as "merged cells" in MS Word

Tables – Spanning a Row

```html
<table border>
  <tr>
    <td rowspan="2">[1 1]</td>
    <td>[1 2]</td>
    <td rowspan="3">[1 3]</td>
  </tr>
  <tr>
    <td>[2 2]</td>
  </tr>
  <tr>
    <td>[3 1]</td>
    <td>[3 2]</td>
  </tr>
</table>
```


Known as "merged cells" in MS Word

Tables – Column Headers

```html
<table align="center" border="1">
    <tr>
        <th></th>
        <th scope="col">col 1</th>
        <th scope="col">col 2</th>
    </tr>
    <tr>
        <th scope="row">row1</th>
        <td align="center">1</td>
        <td align="center">2</td>
    </tr>
    <tr>
        <th scope="row">row2</th>
        <td align="center">3</td>
        <td align="center">4</td>
    </tr>
</table>
```

	col 1	col 2
row1	1	2
row2	3	4

Tables – Headers & Footers

Web Design Books

Published	ISBN-13	Author	Title
November 8, 2011	860-1200464207	Jon Duckett	HTML and CSS: Design and Build Websites
November 11, 2011	978-0321793935	Ian Devlin	HTML5 Multimedia: Develop and Design
August 24, 2012	978-1449319274	Jennifer Niederst Robbins	A Beginner's Guide to HTML, CSS, JavaScript, and Web Graphics
June 30, 2014	978-1118531648	Jon Duckett	JavaScript and JQuery: Interactive Front-End Web Development
December 29, 2010	978-1430230908	Silvia Pfeiffer	The Definitive Guide to HTML5 Video
August 27, 2010	978-0596806026	Mark Pilgrim	HTML5: Up and Running
November 17, 2006	978-0596527334	Eric A. Meyer	CSS: The Definitive Guide
May 13, 2011	978-0596805524	David Flanagan	JavaScript: The Definitive Guide: Activate Your Web Pages
May 2008	978-0596517748	Douglas Crockford	JavaScript: The Good Parts
Amazon Student	FREE Two-Day Shipping on millions of items		

HTML Tables – Old Code
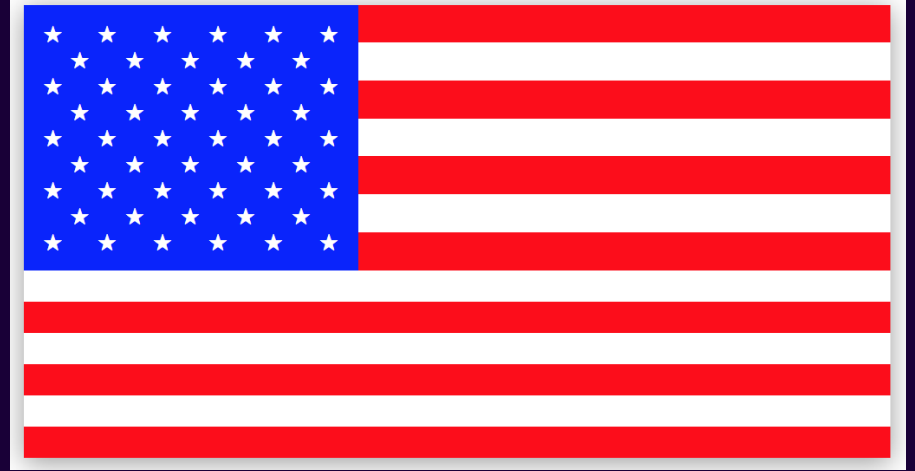
Tables – Old Code

Specify formatting

- Borders
- Height/width
- Cell spacing/padding
- Cell background (fill) color
- Text formatting

Specify for each level

- `<table>` – affects the entire table
- `<tr>` – affects this row
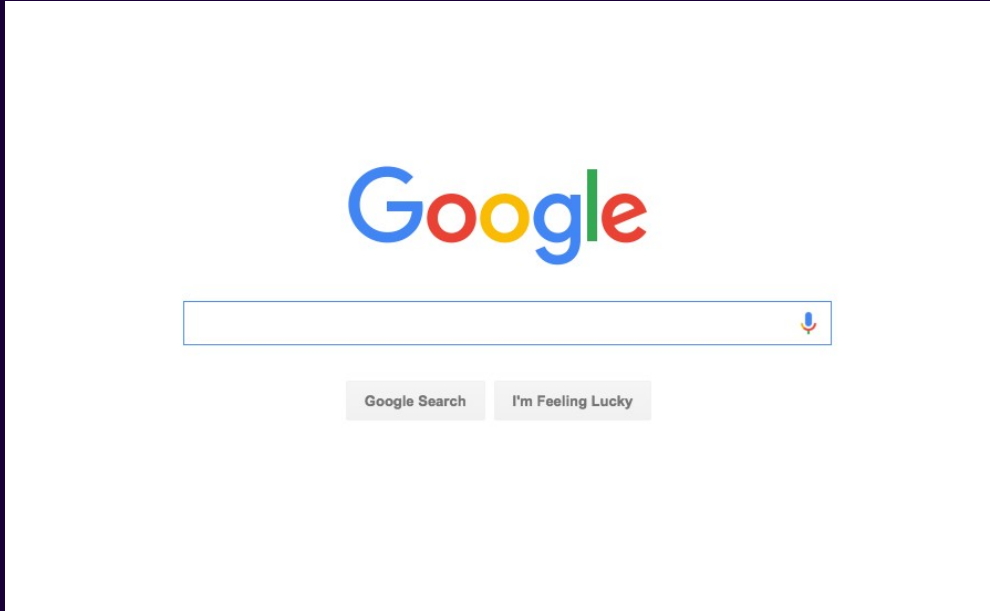- `<td>` & `<td>` – affects this cell

Tables – Old Code Example

HTML Forms

Elements | Types | Attributes

Best Known Form on the Web

How Forms Work

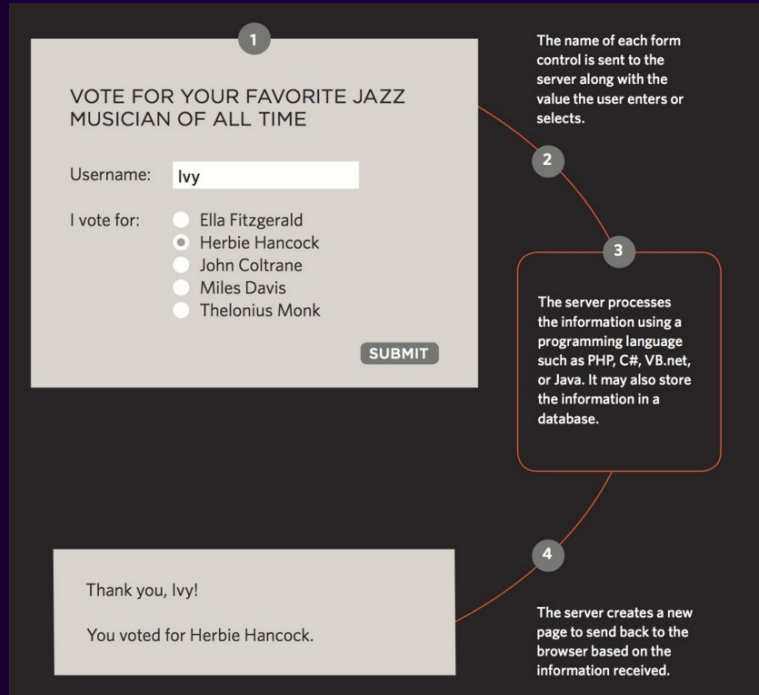# HTML <form> – Structure

```
<html>
    <head>
        <title>Form Structure</title>
    </head>
    <body>
        <form action="http://www.example.com/subscribe.php"
method="get">
            This is where the form controls will appear
        </form>
    </body>
</html>
```

HTML <form> – Attributes

action – where the data goes when submitted
method – HTTP *request method* to use (get/post common)
sub-elements – used to build form (input + submit)

9 Basic Form Controls

Text input (single) **<input>**
Used for a single line of text such as email addresses and names.

Ivy

<input type="password">
Like a single line text box but it masks the characters entered.

•••••••

Text area (m **<textarea>**
For longer areas of text, such as messages and comments.

Enter your comments...

Ra **<input type = "radio">**
For use when a user must select one of a number of options.

⦿ Rock ○ Pop ○ Jazz

<input type = "checkbox">
When a user can select and unselect one or more options.

☑ iTunes ☐ Last.fm ☐ Spotify

Drop-down **<datalist>** **<select> & <option>**
Whe numb

iPod

Submit butto **<button>**
To submit data from your form to another web page.

Subscribe

Image buttons **<>**
Similar to submit buttons but they allow you to use an image.

SUBSCRIBE

File upload **<>**
Allows users to upload files (e.g. images) to a website.

Browse...
Upload

HTML <form> – Radio Buttons,Text, & Submit

```html
<head>
    <title>Pac-12 North Division</title>
</head>
<body>
    <img src="http://x.pac-12.com/profiles/pac12/themes/pac12_foundation/images/pac12/
logo.png"
        alt="Pac-12 logo" title="Pac-12 Home">
    <h3>Vote for your favorite Football Team</h3>
        <form action="http://courses.washington.edu/bimd233/bimd.php" method="post">
            <input type="radio" name="team" value="Washington Huskies">Washington
Huskies<br />
            <input type="radio" name="team" value="Washington Cougars">Washington
Cougars<br />
            <input type="radio" name="team" value="Stanford Cardinals">Stanford
Cardinals<br />
            <input type="radio" name="team" value="California Bears">California Bears<br />
            <input type="radio" name="team" value="Oregon State">Oregon State Beavers<br />
            <input type="radio" name="team" value="Oregon">Oregon Ducks<br />
            <br/>
            My State:
            <input type="text" name="state"><br/>
            <input type="submit">
        </form>
</body>
```

HTML <form> – Name/Value Pairs

name=value

Examples:
team=Washington Huskies, state=washington

HTML <form> – Username and Password

```html
<html>
<head>
    <title>Password Form</title>
</head>
<body>
    <h3>Enter Username and Password</h3>
    <form action="password.php" method="post">
        Username: <input type="text" name="username"><br>
        Password: <input type="password" password="password"><br>
        <input type="submit">
    </form>
</body>
```

Enter Username and Password

Username: bob@uw.edu
Password: •••••••••••
Submit

HTML <form> – Listbox Using <datalist>

```html
<body>
    <h3>Browser Select</h3>
    <form action="chooser.php" method="get">
        <label>Choose a browser from this list:
            <input list="browsers" name="myBrowser" />
        </label>
        <datalist id="browsers">
            <option value="Chrome">
            <option value="Firefox">
            <option value="Internet Explorer">
            <option value="Opera">
            <option value="Safari">
        </datalist>
    </form>
</body>
```
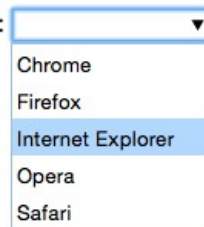
Browser Selector

Choose a browser from this list: [▼]
- Chrome
- Firefox
- Internet Explorer
- Opera
- Safari

HTML <form> – <datalist> & Textbox

```html
<body>
    <h3>Ipsum Generator</h3>
    <form action="generator.php" method="get">
        Select Ipsum Type:<input list="ipsum">
        <datalist id="ipsum">
            <option value="Lorem">
            <option value="Bacon">
            <option value="Zombie">
            <option value="Corporate">
        </datalist><br><br>
        Ipsum Paragraph:<br>
        <textarea name="message" rows="5" cols="60"></textarea><br/>
    </form>
</body>
```
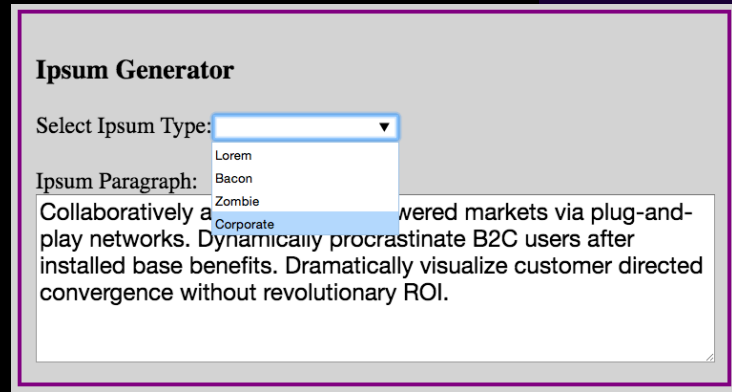
Ipsum Generator

Select Ipsum Type: [▼]

Lorem
Bacon
Zombie
Corporate

Ipsum Paragraph:

Collaboratively a[...]wered markets via plug-and-play networks. Dynamically procrastinate B2C users after installed base benefits. Dramatically visualize customer directed convergence without revolutionary ROI.

HTML <form> – Listbox Using <select> & <option>

```html
<body>
    <form action="http://www.example.com/profile.php"
        <h3>What service do you listen to music
on?</h3>
        <select name="devices">
            <option value="itunes">iTunes</option>
            <option value="spotify">Spotify</option>
            <option value="pandora">Pandora</option>
            <option value="other">Other</option>
        </select>
    </form>
</body>
```

HTML <form> – Listbox & Submit Image Button

```
<body>
    <form action="http://www.example.org/power.
        method="post">
        Select House Light <input list="lights"
        <datalist id="lights">
            <option value="Living Room">
            <option value="Family Room">
            <option value="Master Bedroom">
            <option value="Kitchen">
        </datalist><br><br>
        <input type="image"
            src="images/power-button-off.png"
            width="120" height="120" />
    </form>
</body>
```

HTML <form> – Listbox with Multi-Select Enabled

```
<body>
    <div class="container">
        <form action="http://www.example.com/profile
            <p>Do you play any of the following inst
            <select name="instruments" size="3" mult
                <option value="guitar" selected="sel
                <option value="drums">Drums</option>
                <option value="keyboard" selected="s
                <option value="bass">Bass</option>
            </select>
        </form>
    </div>
</body>
```

Do you play any of the following instruments? (You can select more than one option by holding down control on a PC or command key on a Mac while selecting different options.)

Guitar
Drums
Keyboard

HTML <form> – Checkboxes

```
<body>
    <h3>Please select your favori
    
    <form action="http://www.exam
        <input type="checkbox" na
/>iTunes
        <input type="checkbox" na
        <input type="checkbox" name="service" value="spotify" />Spotify
    </form>
</body>
```

Please select your favorite music service(s):

☑ iTunes ☐ Last.fm ☑ Spotify

HTML <form> – File Uploads

```html
<body>
    <div class="container">
        <form action="http://www.example.com/upload.
method="post">
            <p>Upload your song in MP3 format:</p>
            <input type="file" name="user-song"/><br
            <input type="submit" value="Upload"/>
        </form>
    </div>
</body>
```

Upload your song in MP3 format:

Choose File | No file chosen

Upload

RECAP

Review of today's lecture

RECAP : <table>

▶ <table> element used to add tables to web pages.

▶ Tables are rendered row by row using <tr></tr>.

▶ Within each row there are <td></td> elements (cells)

  (or <th></th> in the case of header rows).

▶ Cells are merged using rowspan and colspan attributes.

▶ Long tables are logically split into sections with:

  <thead> | <tbody> | <tfoot>

▶ There are OLD CODE table attributes still in practice.

RECAP

▶ Long tables are logically split into sections with:

<thead> | <tbody> | <tfoot>

▶ OLD CODE attributes still in to control PRESENTATION.

▶ FORMS have 9 major CONTROLS:

○ Text Input, Password Input, and Text Area

○ Radio Buttons, Checkboxes, and Dropdowns

○ Submit Button, Image Button, File Uploads

▶ FORMS submit their data to web servers via GET or POST

Homework

- Finish code lab 3
- Quiz 1 this weekend