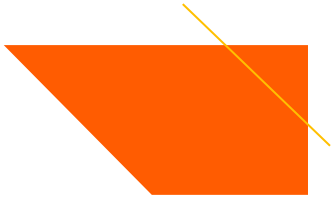
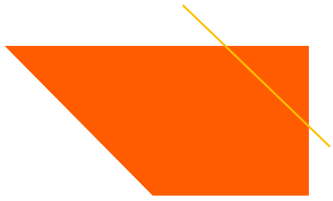


Web Application Development

COSI 152A



HTML List



HTML List

- HTML list allows you to group a set of related items in a list.
 - Unordered list
 - Ordered list



Unordered List

- represents a bulleted list of items (block)
- represents a single item within the list (block)

```
<ul>  
  <li>No shoes</li>  
  <li>No shirt</li>  
  <li>No problem!</li>  
</ul>
```

- No shoes
- No shirt
- No problem!



Ordered List

- represents a numbered list of items (block)
- represents a single item within the list (block)
- We can make lists with letters or Roman numerals using CSS (later)

```
<p>Concise business model:</p>
```

```
<ol>
```

```
  <li>Find customers</li>
```

```
  <li>Make profits</li>
```

```
</ol>
```

Concise business model:

1. Find customers
2. Make profit!



Nested List

```
<ul>
  <li>Simpsons:
    <ul>
      <li>Homer</li>
      <li>Marge</li>
    </ul>
  </li>
  <li>Family Guy:
    <ul>
      <li>Peter</li>
      <li>Lois</li>
    </ul>
  </li>
</ul>
```

Important: nested lists are inside list items.
Not directly inside the other list!

- **Simpsons:**
 - Homer
 - Marge
- **Family Guy:**
 - Peter
 - Lois



Definition List <dl> <dt> <dd>

- <dl> represents a list of definitions of terms (block)
- <dt> represents each term, and <dd> its definition

<dl>

<dt>**newbie**</dt>

<dd>**one who does not have mad skills**</dd>

<dt>**own**</dt>

<dd>**to soundly defeat**</dd>

<dt>**frag**</dt>

<dd>**a kill in a shooting game**</dd>

</dl>

newbie	one who does not have mad skills
own	to soundly defeat
frag	a kill in a shooting game



HTML Table

HTML Tables `<table>` `<tr>` `<td>`



A 2D table of rows and columns of data (block element)



`<table>` defines the overall table, `<tr>` each row, and `<td>` each cell's data



Tables are intended for displaying large row/column data sets

```
<table>
  <tr>
    <td>1,1</td>
    <td>1,2 okay</td>
  </tr>
  <tr>
    <td>2,1 real wide</td>
    <td>2,2</td>
  </tr>
</table>
```

1,1	1,2 okay
2,1 real wide	2,2



Table headers <th> and captions <caption>

- <th> cells in a row are headers
 - Appear bold by default
- <caption> labels the meaning of the table

My important data	
Column 1	Column 2
1,1	1,2 okay
2,1 real wide	2,2

```
<table>
<caption>My important data</caption>
<tr>
  <th>Column 1</th>
  <th>Column 2</th>
</tr>
<tr>
  <td>1,1</td>
  <td>1,2 okay</td>
</tr>
<tr>
  <td>2,1 real wide</td>
  <td>2,2</td>
</tr>
</table>
```

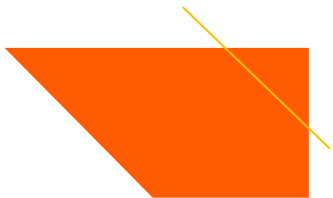
The rowspan and colspan attributes

```
<table>
  <tr>
    <th>Column 1</th>
    <th>Column 2</th>
    <th>Column 3</th>
  </tr>
  <tr>
    <td colspan="2">1,1-1,2</td>
    <td rowspan="3">1,3-3,3</td>
  </tr>
  <tr>
    <td>2,1</td>
    <td>2,2</td>
  </tr>
  <tr>
    <td>3,1</td>
    <td>3,2</td>
  </tr>
</table>
```

colspan makes a cell occupy multiple columns
rowspan makes a cell occupy multiple rows

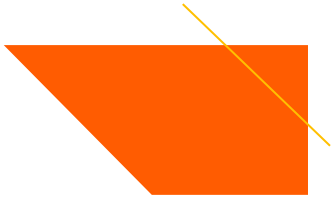
Column 1	Column 2	Column 3
1,1-1,2		1,3-3,3
2,1	2,2	
3,1	3,2	

Column 1	Column 2	Column 3
1,1-1,2		1,3-3,3
2,1	2,2	
3,1	3,2	



Don't use tables for layout

- Tables appear to be an easy way to achieve grid-like page layouts (used to be only way)
 - Some "newbie" web pages may still do this
 - But a table has semantics; it should be used only to represent an actual table of data
 - Instead of tables use div, widths/margins, flexbox, grid, floats, etc. to perform layout



HTML Form



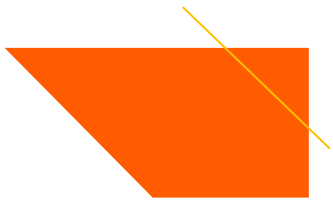
HTML Forms

- Form is a group of UI controls that accepts information from the user and sends the information to a web server.

Login page:

Username:

Password:



Forms **<form>**

- The `<form>` tag is used to create an HTML form.
- The `<form>` element can contain multiple other elements such as: `<input>`, `<button>`, `<label>` etc.

```
<form action="/" method="post">  
    Form elements  
</form>
```

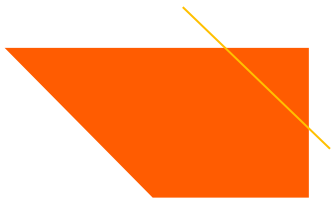


Form element: <label>

- The <label> element defines a label for several form elements.

```
<form action="/" method="post">  
    <label for="User">Username:</label><br />  
    <label for="Pass">Password:</label><br />  
</form>
```

- The **for** attribute should be equal to the id attribute of the related <input> element.



Form element: `<input>`

- input element is used to create many UI controls depends on its **type** attribute.

Type	Description
<code><input type="text"></code>	Displays a single-line text input field
<code><input type="radio"></code>	Displays a radio button (for selecting one of many choices)
<code><input type="checkbox"></code>	Displays a checkbox (for selecting zero or more of many choices)
<code><input type="submit"></code>	Displays a submit button (for submitting the form)
<code><input type="button"></code>	Displays a clickable button



Form element: `<input>`

- `<input type="text">`: displays a single-line text input field

```
<form action="/" method="post">
  <label for="User">Username:</label><br />
  <input type="text" id="User" name="userName" value="" /><br />
  <label for="Pass">Password:</label><br />
  <input type="text" id="Pass" name="password" value="" /><br /><br />
</form>
```

- **value** attribute specifies control's initial text



Form element: `<input>`

- `<input type="checkbox">`: defines a checkbox letting a user select ZERO or MORE options of a limited number of choices.

```
<form action="/" method="post">
  <label for="User">Username:</label><br />
  <input type="text" id="User" name="userName" value="" /><br />
  <label for="Pass">Password:</label><br />
  <input type="text" id="Pass" name="password" value="" /><br /><br />
  <input type="checkbox" id="remember" name="remember" />
  <label for="remember">Remember me</label><br />
  <input type="checkbox" id="newsletter" name="newsletter">
  <label for="newsletter">Subscribe to newsletter</label><br /><br />
</form>
```



Form element: `<input>`

- `<input type="radio">`: defines a radio button letting a user select ONLY ONE of a limited number of choices

```
<form action="/" method="post">
  <label for="User">Username:</label><br />
  <input type="text" id="User" name="userName" value="" /><br />
  <label for="Pass">Password:</label><br />
  <input type="text" id="Pass" name="password" value="" /><br /><br />
  <input type="checkbox" id="remember" name="remember" />
  <label for="remember">Remember me</label><br />
  <input type="checkbox" id="newsletter" name="newsletter">
  <label for="newsletter">Subscribe to newsletter</label><br /><br />
  <label>Preferred Language:</label><br />
  <input type="radio" id="english" name="language" />
  <label for="english">English</label><br />
  <input type="radio" id="spanish" name="language" />
  <label for="spanish">Spanish</label><br /><br />
</form>
```



Form element: `<input>`

- `<input type="submit">`: displays a submit button (for submitting the form)

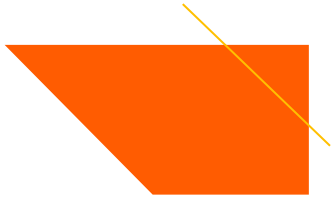
```
<form action="/" method="post">
  <label for="User">Username:</label><br />
  <input type="text" id="User" name="userName" value="" /><br />
  <label for="Pass">Password:</label><br />
  <input type="text" id="Pass" name="password" value="" /><br /><br />
  <input type="checkbox" id="remember" name="remember" />
  <label for="remember">Remember me</label><br />
  <input type="checkbox" id="newsletter" name="newsletter">
  <label for="newsletter">Subscribe to newsletter</label><br /><br />
  <label>Preferred Language:</label><br />
  <input type="radio" id="english" name="language" />
  <label for="english">English</label><br />
  <input type="radio" id="spanish" name="language" />
  <label for="spanish">Spanish</label><br /><br />
  <input type="submit" value="Login" />
</form>
```



Form element: `<input>`

- `<input type="reset">`: defines a reset button that will reset all form values to their default values.

```
<form action="/" method="post">
  <label for="User">Username:</label><br />
  <input type="text" id="User" name="userName" value="" /><br />
  <label for="Pass">Password:</label><br />
  <input type="text" id="Pass" name="password" value="" /><br /><br />
  <input type="checkbox" id="remember" name="remember" />
  <label for="remember">Remember me</label><br />
  <input type="checkbox" id="newsletter" name="newsletter">
  <label for="newsletter">Subscribe to newsletter</label><br /><br />
  <label>Prefered Language:</label><br />
  <input type="radio" id="english" name="language" />
  <label for="english">English</label><br />
  <input type="radio" id="spanish" name="language" />
  <label for="spanish">Spanish</label><br /><br />
  <input type="submit" value="Login" />
  <input type="reset" value="Reset" />
</form>
```



Thank You!