More on Lists & Links

Mohamed Mukthar Ahmed

More on Lists & Links

Outline

Lists – Recap
Nested Lists
Description Lists
Formatting Lists
 Formatting Unordered Lists
 Formatting Ordered Lists
Changing Alignment of List Items
Links – Recap & More
Formatting Links
Link to Open in a New Browser Window
Link to Placeholder
Link to Media File
Creating Navigation Lists
 Creating Navigation Bars

Mohamed Mukthar Ahmed

Lists - Recap

- We are already aware the we can use the **ul** element for unordered list and **ol** element for the order list.

Element	Description
ul	Creates an unordered list.
li	Creates a list item for the list.

Element	Description
ol	Creates an ordered list. You can include the start attribute to specify the starting value for the list. The value represents the position in the list. The default is 1.
li	Creates a list item for the list.

Mohamed Mukthar Ahmed

Nested Lists

- A list item can contain block elements, including other lists

- When we code a list within another list, the list is referred to as Nested Lists

Mohamed Mukthar Ahmed

Description Lists

- Apart from ordered and unordered lists, HTML provides for description lists

- As name implies – they are typically used to list terms and their descriptions

- To code a description list, we can use the <dl>, <dt> and <dd> elements
  - The <dl> element creates a description list
  - The <dt> element creates the term, and
  - The <dd> element creates the description for the term

Element	Description
dl	Creates a description list that contains pairs of dt and dd elements.
dt	Creates a term in a description list.
dd	Creates a description in a description list.

Mohamed Mukthar Ahmed

Formatting Lists

- Once a list is coded we can format it

- We can change the bullets that are used with unordered list

- We can change the numbering system that is used with ordered list

- We can change the vertical alignment of the items in the list. etc.

Mohamed Mukthar Ahmed

Formatting Unordered Lists

- We can change the bullets that are used with unordered list.

Property	Description
list-style-type	Determines the type of bullet that's used for the items in the list. See the table below for possible values. The default is disc.
list-style-image	The URL for an image that's used as the bullet.

Values for the list-style-type property of an unordered list

Value	Description
disc	solid circle
circle	hollow circle
square	solid square
none	no bullet

Mohamed Mukthar Ahmed

Formatting Unordered Lists

- We can change the bullets that are used with unordered list.

HTML for two unordered lists

```
<h2>Popular web browsers include</h2>
<ul class="circle">
    <li>Internet Explorer</li>
    <li>Firefox</li>
    <li>Chrome</li>
</ul>
<h2>Prime skills for web developers are</h2>
<ul class="star">
    <li>HTML5 and CSS3</li>
    <li>JavaScript</li>
    <li>PHP</li>
</ul>
```

CSS that changes the bullets

```
ul.circle { list-style-type: circle; }
ul.star { list-style-image: url("../images/star.png"); }
```

Mohamed Mukthar Ahmed

Formatting Ordered Lists

- We can change the numbering system that is used with ordered list

- Use the list-style-type property. Their common values are

Value	Example
decimal	1, 2, 3, 4, 5 ...
decimal-leading-zero	01, 02, 03, 04, 05 ...
lower-alpha	a, b, c, d, e ...
upper-alpha	A, B, C, D, E ...
lower-roman	i, ii, iii, iv, v ...
upper-roman	I, II, III, IV, V ...

Mohamed Mukthar Ahmed

Formatting Ordered Lists

- Use the list-style-type property. Their common values are

HTML for an ordered list

```
<h2>How to create an executable file</h2>
<ol class="lower_alpha">
    <li>Run the WinZip Self Extractor program and click through the first
        three dialog boxes.</li>
    <li>Enter the name of the zip file in the fourth dialog box.</li>
    <li>Click the Next button to test the executable.</li>
</ol>
```

CSS that formats the list

```
ol.lower_alpha { list-style-type: lower-alpha; }
```

Mohamed Mukthar Ahmed

Changing Alignment of List Items

- Items in a list will be aligned the way we want them
- Space before and after a list as well as the list items

Changing Alignment of List Items

HTML for an unordered list

```
<h2>Popular web browsers</h2>
<ul>
    <li>Internet Explorer</li>
    <li>Firefox</li>
    <li>Chrome</li>
    <li>Safari</li>
    <li>Opera</li>
</ul>
```

CSS that aligns the list items

```
h2, ul, li {
    margin: 0;
    padding: 0;
}
h2 {
    padding-bottom: .25em;
}
ul {
    padding-left: 1em;        /* determines left alignment */
}
li {
    padding-left: .25em;      /* space between bullet and text */
    padding-bottom: .25em;    /* space after line item */
}
```

Links – Recap & More

- The FOUR attributes of a <a> element

Attribute	Description
href	A relative or absolute URL that identifies the document a link will display.
title	A description that is displayed as a tooltip. This can clarify where the link is going.
tabindex	Sets the tab order for the links starting with 0. To take a link out of the tab order, code a negative value.
accesskey	Identifies a keyboard key that can be used in combination with other keys to activate the control. The key combination depends on the operating system and browser.

```
<p>
    <a href="/orders/cart.html" accesskey="c" tabindex="0">Shopping cart</a>
    <a href="/orders/cart.html"><img src="images/cart_animated.gif"
        alt="Shopping cart"></a>
</p>
<p><a href="/books/php_toc.html"
        title="Review the complete table of contents">TOC</a></p>
```

Mohamed Mukthar Ahmed

Links to Mail Message

- Code the href attribute as "mailto" followed by the email address that the message will be sent to

- If we want to populate some of the other fields of the email, like – subject, cc, bcc or body fields, we can add name/value pairs at the end of the address.

```
<a href="mailto:ed@yahoo.com?subject=Web mail">Email us!</a>
```

Mohamed Mukthar Ahmed

Formatting Links

- We can use pseudo-code selectors to change the default style of links

- We have the text-decoration and border to remove underlines and border for links

Name	Description
:link	A link that hasn't been visited. Blue is the default color.
:visited	A link that has been visited. Purple is the default color.
:hover	An element with the mouse hovering over it. Hover has no default color.
:focus	An element like a link or form control that has the focus.
:active	An element that's currently active. Red is the default color.

Property	Description
text-decoration	To remove the underlining from a link, set this to none.
border	To remove the border from an image link, set this to none.

Mohamed Mukthar Ahmed

Formatting Links

- We have the text-decoration and border to remove underlines and border for links

The HTML for three links

```
<ul>
    <li><a href="toobin.html">Jeffrey Toobin</a></li>
    <li><a href="sorkin.html">Andrew Ross Sorkin</a></li>
    <li><a href="chua.html">Amy Chua</a></li>
</ul>
```

The CSS for pseudo-class selectors that apply to the links

```
a:link {
    color: green;
}
a:hover, a:focus {
    text-decoration: none;
    font-size: 125%;
}
```

Mohamed Mukthar Ahmed

8

Link to Open a new Browser Window

- To open a new browser window or tab, we set the target attribute of the <a> element to "_blank"

- Incidentally, the target attribute was deprecated in HTML4. However, it is no longer deprecated in HTML5

```
<p>Just go to
    <a href="http://www.html5test.com/" target="_blank">
    the HTML5 testing site</a>. It rates your browser as it loads the
    page and also has data on how well other browsers conform to HTML5.
</p>
```

Mohamed Mukthar Ahmed

Link to Placeholders

- We can code links that jump to a location on the same page

- To do that we first create a placeholder that identifies the location that we want to jump to. Then we code a link that points to that placeholder

The HTML for the placeholder at the top of the page

```
<h1><a id="top">8 reasons why trainers like our books</a></h1>
```

The HTML for the placeholder for reason 6

```
<h2><a id="reason6">Our complete, real-world applications ensure
mastery</a></h2>
```

Two links that jump to placeholders on the same page

```
<p><a href="#reason6">Complete,real-world applications</a></p>
<p><a href="#top">Return to top</a></p>
```

A link that jumps to a placeholder on this page from another page

```
<a href="8reasons.html#reason6">Complete, real-world applications</a>
```

Link to Media File

- If the href attribute of the <a> element addresses a media file, the normal behaviour is to try display or play it using the right program

- The system need to have the right program or plug-in

- To help the browser identify the type of file, we can code the "type" attribute of the <a> element

- Common MIME type are

Format	Description	MIME type
PDF	Portable Document Format file	application/pdf
WAV	Waveform audio file	audio/x-wave
MP3	MPEG audio file	audio/mpeg or audio/x-mpeg
MPG/MPEG	MPEG video file	video/mpeg
SWF	ShockWave Flash file	application/x-shockwave-flash

Mohamed Mukthar Ahmed

Link to Media File

- If the href attribute of the <a> element addresses a media file, the normal behaviour is to try display or play it using the right program

An HTML link that displays a PDF file in a new window

```
<a href="documents/instructors_summary.pdf"
   type="application/pdf"
   target="_blank">Read the Instructor's Summary<a>
```

An HTML link that plays an MP3 file

```
<a href="music/twist_away.mp3" type="audio/mpeg">MP3 file</a>
```
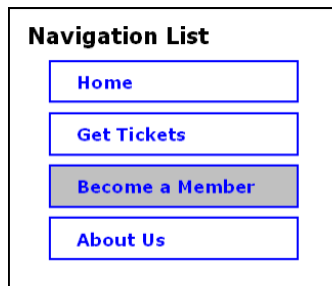
An HTML link that plays a PowerPoint slide show

```
<a href="media/chapter_01.pps"
   target="_blank">Review the slides for chapter 1</a>
```

Mohamed Mukthar Ahmed

Creating Navigation Lists

- We shall learn how to use links and lists in navigation

- The <a> elements are coded within an unordered list. This is the preferred way to create a navigation list. Moreover a list is a logical container of links

Navigation List

| Home |
| Get Tickets |
| Become a Member |
| About Us |

Mohamed Mukthar Ahmed

Creating Navigation Lists

The HTML for the navigation list

```
<h1>Navigation List</h1>
<nav id="nav_list">
    <ul>
        <li><a href="index.html">Home</a></li>
        <li><a href="tickets.html">Get Tickets</a></li>
        <li><a href="members.html" class="current">Become a Member</a></li>
        <li><a href="about_us.html">About Us</a></li>
    </ul>
</nav>
```

The CSS for the navigation list

```
* { margin: 0;
    padding: 0; }
#nav_list ul {
    list-style: none;                /* removes bullets from list items */
    margin-left: 1.25em;
    margin-bottom: 1.5em; }
#nav_list li {
    width: 200px;
    margin-bottom: .5em;             /* the space after each list item */
    border: 2px solid blue; }        /* adds border around each item */
#nav_list li a {
    display: block;                  /* makes the entire box clickable */
    padding: .5em 0 .5em 1.5em;      /* provides the space around the link */
    text-decoration: none;           /* removes the underlines */
    font-weight: bold;
    color: blue; }
#nav_list a.current {
    backgound-color: silver; }       /* makes current background silver */
```

Mohamed Mukthar Ahmed

11

Creating Navigation Bars

- This is a horizontal list of links that often provide the primary navigation for a site

- In this case the display of <li> elements is set to inline, which displays the links horizontally

- In addition top and bottom border are added to the <ul> element, and the right-border to the <li> element

Mohamed Mukthar Ahmed

Creating Navigation Bars

The HTML for the navigation bar

```
<nav id="nav_bar">
    <ul>
        <li><a href="index.html">Home</a></li>
        <li><a href="tickets.html">Get Tickets</a></li>
        <li><a href="members.html" class="current">Become a Member</a></li>
        <li><a href="about_us.html">About Us</a></li>
    </ul>
</nav>
```

The CSS for the first navigation bar

```
#nav_bar ul {
    list-style: none;
    padding: 1em 0;      /* padding above and below li elements */
    border-top: 2px solid black;
    border-bottom: 2px solid black; }
#nav_bar li {
    display: inline;
    padding: 0 1.5em;   /* padding to right and left of items */
    border-right: 2px solid black; }
#nav_bar a {
    font-weight: bold;
    color: blue; }
#nav_bar a.current { color: text-decoration: none; }
```

Creating Navigation Bars

The CSS for the second navigation bar

```
#nav_bar ul {
    list-style: none;
    padding: 1em 0;         /* padding above and below li elements */
    background-color: blue; }
#nav_bar li { display: inline; }
#nav_bar a {
    padding: 1em 2em;       /* padding around <a> elements */
    text-decoration: none;
    color: white;
    font-weight: bold;
    border-right: 2px solid white; }
#nav_bar a.current { color: yellow; }
```

Mohamed Mukthar Ahmed

Mohamed Mukthar Ahmed