MIS3690 - Web Technologies



Lists

Types of lists

- Unordered lists
 - Bulleted list of items
- Ordered Lists
 - Numbered list of items
- Description Lists
 - List of terms and their descriptions

Syntax

- Unordered lists:
 - o defined by and tags
 - o each item on the list: <1i> and </1i> tags
 - Syntax:

- Ordered lists:
 - o defined by and
- Description lists:
 - o defined by <dl> and </dl>

List examples:

```
<h2>Ingredients for Lemonade:</h2>

  1 3/4 cups white sugar
 1/2 cups lemon juice
  8 cups water
<h2>To-Do List Today:</h2>

 wake up
 eat
  sleep again
<h2>All About Web:</h2>
<d1>
  <dt>Web page</dt>
  <dd>A document which can be displayed in a web browser</dd>
  <dt>Website</dt>
  <dd:
   A collection of web pages which are grouped together and usually
   connected together in various ways.
 </dd
  <dt>web server</dt>
  <dd>A computer that hosts a website on the Internet.</dd>
 /dl>
```

Ingredients for Lemonade:

- 1 3/4 cups white sugar
- 1 1/2 cups lemon juice
- 8 cups water

To-Do List Today:

- 1. wake up
- 2. eat
- 3. sleep again

All About Web:

Web Page

A document which can be displayed in a web browser

Web Site

A collection of web pages which are grouped together and usually connected together in various ways.

web server

A computer that hosts a website on the Internet.

Nesting lists

```
<h3>Web technologies</h3>
<u1>
 Basics

   <1i>HTML

    ul>
      baisc elements
     tables
     forms
    CSS
  Scripting

   JavaScript
   Web APIs
  /u1>
```

Web technologies

- Basics
 - 1. HTML
 - baisc elements
 - tables
 - forms
 - 2. CSS
- Scripting
 - 1. JavaScript
 - 2. Web APIs
 - 3. Web Frameworks

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Using CSS with lists

- You can format the text in a list using CSS
 - font, color, text, background, alignment etc.
- One specific formatting using an image for the bullet in unordered lists
 - o ul {list-style-type: disc | circle | square;}
 - You can set the bullet to any one of disc/circle/square
 - o ul {list-style-image: url (image-file-name);}
 - e.g. if the bullet image you want is (smiley.gif)

```
ul {list-style-image: url(images/smiley.gif)};
```

Exercise: creating lists

- Create *ex05.html*
- Add a nested unordered list of the courses you took last semester and this semester.
 - o add "My Courses" as h2.
 - use "smiley.gif" as the bullet image for courses.
- Add an ordered list of the countries that ranked top 4 in 2018 FIFA World Cup.
 - o add "2018 FIFA World Cup Ranking" as h2.
 - o add national flag image before each country name (not as bullet image)
 - you can find the images under resources/templates/images
 - resize the flags, e.g. height="30"
- Check it using Chrome.

More on CSS

Block-level elements vs. inline elements

- Read about block-level elements and inline elements
 - what *block-level elements* have we used?
 - what about *inline elements*?
 - what is the difference?

Using Images as Background

 Using CSS, we can set background images for web pages or even part of web pages using the following properties:

```
o background-image: url("image_filename.jpg")
```

- background-attachment: fixed | scroll
- background-repeat: repeat | norepeat | repeat-x | repeat-y
- background-position: center | top | bottom | left | right | (x,y)
- You can set these independently or all at once:
 - o example:

```
body {background: url(file.jpg) center fixed repeat};
```

more background-image property examples

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Positioning images

- float : none | left | right
 - allows the image to move to one side and the rest of the content flows around it on the other side
 - of float implies the use of the block layout
- clear: both | left | right | none
 - allows the side of the image to be clear of any other *floating* content (where the computed value of float is not none)
 - o i.e., prevents content from flowing around on that side
- float and clear are not just for images.
 - see examples using float for Horizontal Navigation Bar

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More positioning

- float does not let you specify where exactly you want the image to be
- The combination of the following two will allow you to do this:

```
{position: relative | absolute | static}
{left: auto | distance-value (pt or px)}
{top: auto | distance-value (pt or px)}
```

- more position property examples
- z-index
 - allows you to decide whether the element must be above or below other elements that overlap its position
 - z-index property example

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Exercise: ex05.html (cont.)

- Add "music.gif" as the background image for the page.
- Add the image "beaver.jpg" and position it so that it is at the bottom of the page and horizontally centered.
- Add the words "Go Beavers!" (as h3) and place it over the beaver image. Hints:
 - o using different z-index for img and h3
 - o using h3 {position: relative; top: ?; z-index: ?}
- Save the file ex05.html
- Update *sitemap.html*
- Commit and push to GitHub

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Questions?

