

BCSE203E

Web Programming

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Syllabus

Module:2	Hypertext Markup Language	2 hours
HTML Tags, Structure, HTML Coding Conventions - Block Elements, Text Elements, Code-Related Elements, Character References - Lists, Images, section, article, and aside Elements - nav and a Elements - header and footer Elements.		

Html Lists

- HTML Lists are used to specify lists of information.
- There are three different types of HTML lists:
 - Unordered List or Bulleted List (ul)
 - Ordered List or Numbered List (ol)
 - Description List or Definition List (dl)

Unordered Lists

► Unordered list element (ul)

► Creates a list in which each item **begins with a bullet symbol** (called a disc)

► **li (list item):** Entry in an unordered list

► **Format:**

```
<ul>
```

```
<li>....</li>
```

```
<li>....</li>
```

```
</ul>
```

Dot

- Apple
- Mango
- Orange
- Banana

Circle

- Apple
- Mango
- Orange
- Banana

Square

- Apple
- Mango
- Orange
- Banana

None

- Apple
- Mango
- Orange
- Banana

Unordered Lists

```
<html>
<head>
  <title>Internet and WWW How to Program – Links</title>
</head>
<body>

<h1>My favorites</h1>

<p><strong>List of items i consume everyday!</strong></p>

<!-- An unordered list -->
<ul>
  <li>Coffee</li>
  <li>Tea</li>
  <li>Milk</li>
</ul>
</body>
</html>
```

My favorites

List of items i consume everyday!

- Coffee
- Tea
- Milk

Unordered HTML List - Choose List Item Marker

- ❑ The **list-style-type** property is used to define the style of the list item marker.
- ❑ It can have one of the following values:

Value	Description
disc	Sets the list item marker to a bullet (default)
circle	Sets the list item marker to a circle
square	Sets the list item marker to a square
none	The list items will not be marked

Unordered HTML List - Choose List Item Marker

```
<html>
<body>
<h1>List of fruits</h1>
<h4>Bullet name->Disc</h4>
<ul style="list-style-type:disc;">
  <li>Apple</li>
  <li>Banana</li>
  <li>Mango</li>
</ul>
<hr>
<h4>Bullet name->Circle</h4>
<ul style="list-style-type:circle">
  <li>Apple</li>
  <li>Banana</li>
  <li>Mango</li>
</ul>
<hr>
<h4>Bullet name->Square</h4>
<ul style="list-style-type:square">
  <li>Apple</li>
  <li>Banana</li>
  <li>Mango</li>
</ul>
<hr>
<h4>Bullet name->None</h4>
<ul style="list-style-type:none">
  <li>Apple</li>
  <li>Banana</li>
  <li>Mango</li>
</ul>
</body>
</html>
```

List of fruits

Bullet name->Disc

- Apple
- Banana
- Mango

Bullet name->Circle

- Apple
- Banana
- Mango

Bullet name->Square

- Apple
- Banana
- Mango

Bullet name->None

Apple
Banana
Mango

Nested Unordered Lists

```
<!DOCTYPE html>
<html>
<body>

<h2>A Nested List</h2>

<p><strong>Lists can be nested (list inside list):</strong></p>

<ul>

  <hr>
  <li><strong>List-1: Coffee</strong></li>
    { <ul style="list-style-type:circle">
      <li>Cold coffee</li>
      <li>Hot coffee</li>
    } </ul>

  <hr>

  <li><strong>List-2: Tea</strong></li>
    { <ul style="list-style-type:square">
      <li>Black tea</li>
      <li>Green tea</li>
    } </ul>

  <hr>

</ul>

</body>
</html>
```

A Nested List

Lists can be nested (list inside list):

- **List-1: Coffee**
 - Cold coffee
 - Hot coffee
- **List-2: Tea**
 - Black tea
 - Green tea

Ordered Lists or Numbered List

- In the ordered HTML lists, all the **list items are marked with numbers by default.**
- It is known as **numbered list** also.
- **Format:**

```
<ol>
```

```
<li>....</li>
```

```
<li>....</li>
```

```
</ol>
```

Ordered Lists or Numbered List

```
<!DOCTYPE>
<html>
<body>
<h1><strong>Zodiac Signs</strong></h1>
<ol>
<li>Aries</li>
<li>Libra</li>
<li>Scorpio</li>
</ol>
</body>
</html>
```

Zodiac Signs

1. Aries
2. Libra
3. Scorpio

Ordered Lists - The Type Attribute

- The **type** attribute of the `` tag, defines the type of the list item marker:

Type	Description
type="1"	The list items will be numbered with numbers (default)
type="A"	The list items will be numbered with uppercase letters
type="a"	The list items will be numbered with lowercase letters
type="I"	The list items will be numbered with uppercase roman numbers
type="i"	The list items will be numbered with lowercase roman numbers

Ordered Lists - The Type Attribute

```
<!DOCTYPE html>
<html>
<body>
<h1><strong>Zodiac Signs</strong></h1>
<hr>
<p><strong>Type-1: Numbers</strong></p>
<ol>
  <li>Aries</li>
  <li>Scorpio</li>
</ol>
<hr>
<p><strong>Type-2: Uppercase letters</strong></p>
<ol type="A">
  <li>Aries</li>
  <li>Scorpio</li>
</ol>
<hr>
<p><strong>Type-3: Lowercase letters</strong></p>
<ol type="a">
  <li>Aries</li>
  <li>Scorpio</li>
</ol>
<hr>
<p><strong>Type-4: Uppercase roman numbers</strong></p>
<ol type="I">
  <li>Aries</li>
  <li>Scorpio</li>
</ol>
<hr>
</body>
</html>
```

Zodiac Signs

Type-1: Numbers

1. Aries
2. Scorpio

Type-2: Uppercase letters

- A. Aries
- B. Scorpio

Type-3: Lowercase letters

- a. Aries
- b. Scorpio

Type-4: Uppercase roman numbers

- I. Aries
- II. Scorpio

Nested Ordered/Unordered Lists

```
<!DOCTYPE html>
<html>
<head>
  <title> Unordered List </title>
</head>
<body>
  <h2>Nested Unordered List</h2>

  <ol>
    <li>Programming Languages</li>
    <ul>
      <li>C</li>
      <li>C++</li>
    </ul>
    <li>DSA</li>
    <ul>
      <li>Array</li>
      <li>Linked List</li>
      <li>stack</li>
    </ul>
    <li>Web Technologies</li>
    <ul>
      <li>HTML</li>
      <li>CSS</li>
      <li>JavaScript</li>
    </ul>
  </ol>

</body>
</html>
```

Nested Unordered List

1. Programming Languages
 - C
 - C++
2. DSA
 - Array
 - Linked List
 - stack
3. Web Technologies
 - HTML
 - CSS
 - JavaScript

Task-6

The Best Features of the Internet

- You can meet new people from countries around the world.
- You have access to new media as it becomes public:
 - New games
 - New applications
 1. For business
 2. For pleasure
 - Around the clock news
 - Search engines
 - Shopping
 - Programming
 1. XML
 2. Java
 3. XHTML
 4. Scripts
 5. New languages
- Links
- Keeping in touch with old friends
- It is the technology of the future!

Task-7

Numbered list:

1. Apples
2. Bananas
3. Lemons
4. Oranges

Letters list:

- A. Apples
- B. Bananas
- C. Lemons
- D. Oranges

Lowercase letters list:

- a. Apples
- b. Bananas
- c. Lemons
- d. Oranges

Task-8

Lowercase letters list:

- a. Apples
- b. Bananas
- c. Lemons
- d. Oranges

Roman numbers list:

- I. Apples
- II. Bananas
- III. Lemons
- IV. Oranges

Lowercase Roman numbers list:

- i. Apples
- ii. Bananas
- iii. Lemons
- iv. Oranges

HTML Definition Lists

- ▶ A definition list is a **list of items, describing each item.**
- ▶ The **<dl> tag** defines a definition list.
- ▶ The **<dl> tag is used in conjunction with <dt>** (defines the item in the list) and **<dd> Defines a description of an item** in a definition)
- ▶ **Format:**

```
<dl>
  <dt>.....</dt>
    <dd>.....</dd>
  <dt>.....</dt>
    <dd>.....</dd>
</dl>
```

HTML Definition Lists

```
<!DOCTYPE html>
<html>
<body>
<h1><strong>Abbreviations</strong></h1>
<dl>
  <dt>PDF</dt>
  <dd>Portable Document Format</dd>
  <dt>RAID</dt>
  <dd>Redundant Array of Independent Disks</dd>
  <dt>RAM</dt>
  <dd>Random Access Memory</dd>
  <dt>RDMA</dt>
  <dd>Remote Direct Memory Access</dd>
</dl>
</body>
</html>
```

Abbreviations

PDF-
Portable Document Format

RAID-
Redundant Array of Independent Disks

RAM-
Random Access Memory

RDMA-
Remote Direct Memory Access

HTML Definition Lists

```
<dl>
```

```
<hr>
```

```
<dt><strong>GUI</strong></dt>
```

```
<dd>Graphical User Interface. A Graphical User Interface is designed so  
that the user can perform tasks by using a mouse to point & click to  
navigate around the computer.</dd>
```

```
<hr>
```

```
<dt><strong>RAM</strong></dt>
```

```
<dd>Random Access Memory. It is a temporary storage area that the  
processor uses to execute programs and to hold data.</dd>
```

```
<hr>
```

```
</dl>
```

GUI

Graphical User Interface. A Graphical User Interface is designed so that the user can perform tasks by using a mouse to point & click to navigate around the computer.

RAM

Random Access Memory. It is a temporary storage area that the processor uses to execute programs and to hold data.

Task-9

Largest Header

Smallest Header

This is a paragraph

1. First create the ol tags
2. Then create the li tags

- Milk
- Sugar

Cat

Four legged meower

Dog

Four legged woofers

 and <ins> tags

```
<!DOCTYPE html>
<html>
<body>

<h1>Insert and delete element</h1>

<p><del>Only 50 tickets left!</del></p>
<ins>SOLD OUT!</ins>
<hr>

<p><s>Only 50 tickets left!</s></p>
<p>SOLD OUT!</p>
<hr>

<p><strike>Only 50 tickets left!</strike></p>
<p>SOLD OUT!</p>
<hr>

</body>
</html>
```

Insert and delete element

~~Only 50 tickets left!~~

SOLD OUT!

~~Only 50 tickets left!~~

SOLD OUT!

~~Only 50 tickets left!~~

SOLD OUT!

<nav> tag

- The **<nav> html** element represents a section of a page whose **purpose is to provide navigation links, either within the current document or to other documents.**
- Common examples of navigation sections are **menus, tables of contents, and indexes.**

[Bikes](#) > [BMX](#) > Jump Bike 3000

Jump Bike 3000

This BMX bike is a solid step into the pro world. It looks as legit as it rides and is built to polish your skills.

<nav> tag

```
<h1>60 Most Popular Types of Flowers Common in the US</h1>
```

```

```

```
<p align="justify">
```

A flower, also known as a bloom or blossom, is the reproductive structure found in flowering plants (plants of the division Angiospermae).

```
</p>
```

```
<nav>
```

```
<ol>
```

```
<li><a href="https://en.wikipedia.org/wiki/Rose">Rose</a></li>
```

```
<li><a href="https://en.wikipedia.org/wiki/Taxonomy_(biology)">Taxonomy (biology)</a></li>
```

```
<li><a href="https://en.wikipedia.org/wiki/Taxonomy_(biology)#History">History</a></li>
```

```
</ol>
```

```
</nav>
```

```
<nav>
```

```
<a href="#">Home</a> |
```

```
<a href="#">Previous</a> |
```

```
<a href="#">Next</a> |
```

```
<a href="#">Exit</a>
```

```
</nav>
```

60 Most Popular Types of Flowers Common in the US



A flower, also known as a bloom or blossom, is the reproductive structure found in flowering plants (plants of the division Angiospermae).

1. [Rose](#)
2. [Taxonomy \(biology\)](#)
3. [History](#)

[Home](#) | [Previous](#) | [Next](#) | [Exit](#)

<section> tag

- A web page may contain many **chapters, headers, footers, or other sections on a web page**
- The HTML **<section> tag** is used to **define sections in a document.**

<section> tag

```
<!DOCTYPE>
<html>

<body>
<h2> Sports</h2>

<section>
<h3> Football </h3>
<p> Football is a family of team sports that involve, to varying degrees,
kicking a ball to score a goal. Unqualified, the word football normally
means the form of football that is the most popular where the word is used.
</p>
</section>

<section>
<h3>Cricket</h3>
<p>Cricket is a bat-and-ball game played between two teams of eleven players
on a field at the centre of which is a 22-yard (20-metre) pitch with a
wicket at each end, each comprising two bails balanced on three stumps.
</p>
</section>

</body>
</html>
```

Sports

Football

Football is a family of team sports that involve, to varying degrees, kicking a ball to score a goal. Unqualified, the word football normally means the form of football that is the most popular where the word is used.

Cricket

Cricket is a bat-and-ball game played between two teams of eleven players on a field at the centre of which is a 22-yard (20-metre) pitch with a wicket at each end, each comprising two bails balanced on three stumps.

<div> tag

- The **<div> tag** is known as the **Division tag**.
- The div tag is used in HTML **to make divisions of content in the web page like** (text, images, header, footer, navigation bar, etc).
- Div tag has both **open (<div>)** and **closing (</div>)** tags and it is mandatory to close the tag.
- The Div is the **most usable tag** in web development because it **helps us to separate data in the web page**.

<div> tag

```
<body>
<center>
<div>
<!--open tag of Div!-->
<caption>
<h1> <font color="Blue">Gym </font> </h1>
</caption>
<h1 align="justify"><font color="Green" size="5">A gym,
short for gymnasium (pl.: gymnasiums or gymnasia), is an
indoor venue for exercise and sports. </font>
</h1>
</div>
<!--closing tag of Div!-->
</center>

<div style="border:1px solid pink;padding:20px;font-
size:20px">

<p align="right"> <b> <i> <font face="Verdana" size="6"
color="red">The div tag is generally used by web developers
to group HTML elements together and apply CSS styles to
many elements at once. </font> </i> </b> </p>

</div>

</body>
```

Gym

A gym, short for gymnasium (pl.: gymnasiums or gymnasia), is an indoor venue for exercise and sports.

The div tag is generally used by web developers to group HTML elements together and apply CSS styles to many elements at once.

 tag

- A ** element** which is used to **color a part of a text**
- The `` tag is an inline container used to mark up a part of a text, or a part of a document
- The `` tag is much like the `<div>` element, but `<div>` is **a block-level element** and `` is an **inline element**

 tag

```
<!DOCTYPE html>
<html>

<body>

  <h2><center>Student life </center></h2>

  <p>
    Student life is

    <span style="color:red;font-weight:bolder">
      one of the most memorable phases of a person's life.
    </span>

    The phase of student life

    <span style="background-color:lightgreen;">
      builds the foundation of our life.
    </span>

  </p>

  <div>
    In student life, we do not just learn from books. We learn
    to grow emotionally, physically, philosophically as well as
    socially.
  </div>

</body>

</html>
```

Student life

Student life is **one of the most memorable phases of a person's life**. The phase of student life **builds the foundation of our life**.

In student life, we do not just learn from books. We learn to grow emotionally, physically, philosophically as well as socially.

Task-10

Welcome to my site. Please come in and stay awhile.

I started this web site because Halloween has always been my favorite holiday. But during the last year, I started selling some of my favorite Halloween products, and they've become quite a hit.

If you click on the Personal link, you can browse my favorite Halloween pictures, stories, and films. And if you join my email list, I will keep you up-to-date on all things Halloween.

Product categories

- [Props](#)
- [Costumes](#)
- [Special Effects](#)
- [Masks](#)

My guarantee

If you aren't completely satisfied with everything you buy from my site, you can return it for a full refund. **No questions asked!**

© 2016 Ben Murach



Reference for first letter selector

```
<!DOCTYPE html>
<html>
<head>

<style>
p::first-letter {
  font-size: 200%;
  color: red;
}
</style>

</head>
<body>

<p>My name is _____ </p>
<p>I live in Vellore.</p>

</body>
</html>
```

My name is _____

I live in Vellore.

Task-11

Objective

To obtain a full-time entry level Web developer position with an opportunity for growth and advancement.

Interests

1. Blogging
2. Flash Animations

Education

Associate's of Science Degree, 2005

- Some Community College
- Computer Information Systems

Webmaster Certificate, 2004

- Another Community College
- Web site design and server-side programming

Experience

Web Programmer

- Horizon Wireless, 2003-current
- PHP programming
- MySQL database design

References

Rebecca Isbrainey

Professor, Some Community College, 909-606-8552

Wade W. Wilson

Director of Web Development, Horizon Wireless, 111-397-7765

Joe Somebody can be contacted at js@yippee.com or at 123-456-7810.

