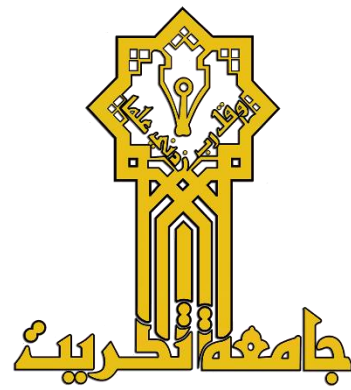# WEB PROGRAMMING

Department of Computer Sciences
Academic Year: 2023-2024
First stage
Semester: Two

Lecture - 5

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HTML Lists

- A "List" serves as a compilation of brief snippets of connected data, utilized for presenting information on web pages in either an ordered or unordered manner. For example, when planning purchases, it's necessary to compile a list, which can be structured in either an ordered or unordered format, aiding in data organization and facilitating item retrieval.

HTML Lists

HTML provides web creators with three methods for defining lists of information. Each list must include at least one list element. Lists can consist of:

- - Unordered list. This displays items with simple bullet points.
- - Ordered list. This employs various numbering schemes to list your items.
- <dl> - Description list. This organizes your items similarly to a dictionary's format.

HTML List Tags

Tag	Description
	Defines an unordered list
	Defines an ordered list
	Defines a list item
<dl>	Defines a description list
<dt>	Defines a term in a description list
<dd>	Describes the term in a description list

HTML Lists – Examples

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

<h2>An unordered HTML list</h2>

<ul>
  <li>Coffee</li>
  <li>Tea</li>
  <li>Milk</li>
</ul>

</body>
</html>
```

An unordered HTML list

- Coffee
- Tea
- Milk

HTML Lists – Examples

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

<h2>An ordered HTML list</h2>

<ol>
  <li>Coffee</li>
  <li>Tea</li>
  <li>Milk</li>
</ol>

</body>
</html>
```

An ordered HTML list

1. Coffee
2. Tea
3. Milk

HTML Lists - Examples

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

<h2>A Description List</h2>

<dl>
  <dt>Coffee</dt>
  <dd>- black hot drink</dd>
  <dt>Milk</dt>
  <dd>- white cold drink</dd>
</dl>

</body>
</html>
```

A Description List

Coffee
- black hot drink
Milk
- white cold drink

HTML Lists - Examples

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

<body>
    <h2>Welcome To Computer Science Department</h2>
    <h2>First Stage</h2>
    <h5>List of available courses</h5>
    <ul>
        <li>Data Structures & Algorithm</li>
        <li>Web Technology</li>
        <li>Logical Design</li>
        <li>Programming Languages</li>
    </ul>
    <h5>Data Structures topics</h5>
    <ol>
        <li>Array</li>
        <li>Linked List</li>
        <li>Stacks</li>
        <li>Queues</li>
        <li>Trees</li>
        <li>Graphs</li>
    </ol>
</body>

</html>
```

Welcome To Computer Science Department

First Stage

List of available courses

- Data Structures & Algorithm
- Web Technology
- Logical Design
- Programming Languages

Data Structures topics

1. Array
2. Linked List
3. Stacks
4. Queues
5. Trees
6. Graphs

HTML Images

- Incorporating images can enhance the design and visual appeal of a webpage.

- You can embed an image into your webpage using the <img> tag. Below is the basic syntax for using this tag:

  <img src="Image URL">

- The <img> tag is self-closing, meaning it doesn't require a separate closing tag. It can only contain a list of attributes.

HTML Images

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

<h2>Image as a Link</h2>

<p>The image below is a smile.</p>

<img src="smiley.gif" alt="HTML tutorial">

</body>
</html>
```

Image as a Link

The image below is a smile. Try to click on it.

HTML Links – Hyperlinks

Hyperlinks in HTML are known as links. They enable users to navigate to another document with a simple click. When hovering over a link, the cursor typically transforms into a hand icon.

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

<h1>HTML Links</h1>

<p><a
href="https://www.w3schools.com/">
Visit W3Schools.com!</a></p>

</body>
</html>
```

HTML Links

Visit W3Schools.com!

Absolute URLs vs. Relative URLs

Both examples above are using an absolute URL (a full web address) in the href attribute.

A local link (a link to a page within the same website) is specified with a relative URL (without the "https://www" part):

```
<!DOCTYPE html>
<html>
<body>
<h2>Absolute URLs</h2>
<p><a href="https://www.w3.org/">W3C</a></p>
<p><a href="https://www.google.com/">Google</a>
</p>
<h2>Relative URLs</h2>
<p><a href="html_images.asp">HTML Images</a></p>
<p><a href="/css/default.asp">CSS Tutorial</a></p>
</body>
</html>
```

Absolute URLs

W3C

Google

Relative URLs

HTML Images

CSS Tutorial

HTML Links — Email

The HTML <a> tag allows you to specify an email address for sending emails. When using the <a> tag as an email link, you'll utilize the mailto: prefix along with the email address within the href attribute. Here's the syntax:

Send Email
This code will generate a link like this:

Send Email

Clicking on this link will prompt the user's default email client to compose an email to the specified address.

HTML Links – Email

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

<p>
This is an email link:
<a href="mailto:someone@example.com">
Send Mail</a>
</p>

<p>The link will only work if you have email installed.
</p>


</body>
</html>
```

This is an email link: <u>Send Mail</u>

The link will only work if you have email installed.

More References Used

- https://www.w3schools.com/html/html_lists_unordered.asp

- https://www.w3schools.com/html/html_images.asp

- https://www.tutorialspoint.com/html/html_images.htm

- https://www.tutorialspoint.com/html/html_lists.htm

- https://www.geeksforgeeks.org/html-lists/

- https://www.tutorialspoint.com/html/html_email_links.htm

THANK YOU