

Web-Engineering I

Lecture 2: HTML

04 September – 2024

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HTML Heading

- Headings are defined with the <h l > to <h6> tags.
- <h I > defines the most important heading while <h6> defines the least important heading.

```
<!DOCTYPE html>
<html>
                                                      This is heading 1
<body>
<h1>This is heading 1</h1>
                                                      This is heading 2
<h2>This is heading 2</h2>
<h3>This is heading 3</h3>
                                                      This is heading 3
<h4>This is heading 4</h4>
<h5>This is heading 5</h5>
<h6>This is heading 6</h6>
                                                      This is heading 4
</body>
                                                      This is heading 5
</html>
                                                      This is heading 6
```

Headings are Important

- Use HTML headings for headings only. Don't use headings to make text BIG or bold.
- Search engines use your headings to index the structure and content of your web pages.
- ▶ h1 headings should be main headings, followed by h2 headings, then the less important h3, and so on.

HTML Paragraphs

▶ The HTML element defines a **paragraph**.

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

Cp>This is a paragraph.
This is a paragraph.

</body>
</html>

This is a paragraph.

This is a
```

HTML Formatting Elements

- HTML also defines special elements for defining text with a special meaning.
- HTML uses elements like and <i> for formatting output, like bold or italic text.
- Formatting elements were designed to display special types of text.
 - Bold text
 - Important text
 - <i> Italic text
 - Emphasized text
 - <mark> Marked text
 - <small> Small text
 - Deleted text
 - <ins> Inserted text
 - <sub> Subscript text
 - <sup> Superscript text

HTML Comment Comments

- Comment tags are used to insert comments in the HTML source code.
- Comments are displayed by the browser, but they can help document your HTML source code.

<!-- Write your comments here -->

HTML Comments

```
<!DOCTYPE html>
<html>
<body>
<!-- This is a comment -->
This is a paragraph.
<!-- Comments are not displayed in the browser -->
</body>
</html>
```

This is a paragraph.

HTML Links - Hyperlinks

- ▶ HTML links are hyperlinks.
- A hyperlink is a text or an image you can click on, and jump to another document.
- Note: A link does not have to be text. It can be an image or any other HTML element.

```
THIS IS THE PAGE THE USER CLICKS ON

(a href="http://www.imdb.com">IMDB</a>

OPENING LINK TAG

THIS IS THE TEXT THE USER CLICKS ON

CLOSING LINK TAG
```

HTML Links - Hyperlinks

```
<!DOCTYPE html>
<html>
<body>
<a href="http://www.google.com">Go to Google Homepage</a>
</body>
</html>
Result
Go to Google Homepage
```

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HTML Images

- In HTML, images are defined with the **** tag.
- The tag is empty, it contains attributes only, and does not have a closing tag.
- The **src** attribute specifies the URL (web address) of the image:

Both the width, height, and style attributes are valid in the latest HTML standard.

HTML Images

```
<!DOCTYPE html>
<html>
<body>
<h2>Spectacular Mountain</h2>
<img src="pic_mountain.jpg" style="width:304px;height:228px;">
</body>
</html>
                       Spectacular Mountain
```

HTML Tables

- ▶ Tables are defined with the tag.
- A table row can also be divided into **table headings** with the **>** tag.
- ▶ Tables are divided into table rows with the > tag.
- ▶ Table rows are divided into **table data** with the tag.
- ▶ Table data are the data containers of the table.

```
Something...
```

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HTML Tables

```
(tr)
  Company
  Contact
  Country
 Company
                                            Contact
                                                    Country
 (tr)
                       Alfreds Futterkiste
                                         Maria Anders
                                                    Germany
  Alfreds Futterkiste
                       Centro comercial Moctezuma Francisco Chang Mexico
  Maria Anders
  Germany
                                         Roland Mendel | Austria
                       Ernst Handel
 (tr)
  Centro comercial Moctezuma
  Francisco Chang
  Mexico
 (tr)
  Ernst Handel
  Roland Mendel
  Austria
```

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Table – Column Spanning

To make a cell span more than one column, we can use the **colspan** attribute:

Name	Telephone	
Bill Gates	55577854	55577855

Table – Row Spanning

To make a cell span more than one row, we can use the **row** span attribute.

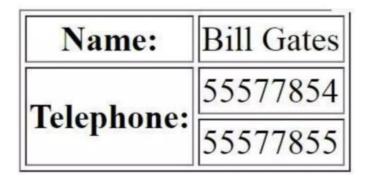


Table – Caption

▶ To add a caption to a table, use the **<caption>** tag.

HTML Lists

List types:

Example of an unordered list and an ordered list in HTML:

Unordered List:

- Item
- Item
- Item
- Item

Ordered List:

- 1. First item
- 2. Second item
- 3. Third item
- 4. Fourth item

Unordered Lists

- An unordered list starts with the **tag.** Each list item starts with the **tag.**
- ▶ The list items will be marked with bullets (small black circles).

```
    Coffee
    Tea
    Milk
```

Unordered Lists - The Style Attribute

A **style** attribute can be added to an **unordered list**, to define the style of the marker.

Style	Description
list-style-type:disc	The list items will be marked with bullets (default)
list-style-type:circle	The list items will be marked with circles
list-style-type:square	The list items will be marked with squares
list-style-type:none	The list items will not be marked

Ordered Lists

- An ordered list starts with the tag. Each list item starts with the tag.
- ▶ The list items will be marked with numbers.

```
     Coffee
     Tea
     Milk
```

Ordered Lists - The Type Attribute

A **type** attribute can be added to an **ordered list**, to define the type of the marker.

Туре	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

HTML Description Lists

- HTML also supports description lists.
- A description list is a list of terms, with a description of each term.
- The **di** tag defines the description list, the **dt** tag defines the term (name), and the **dd** tag describes each term.

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

References

Learning Web Design: A beginner's guide to HTML, CSS, Java -Script, and web graphics.

Questions ...?

