Web Technology



HTML - Element

Department of Computer Science and Engineering Shiv Nadar University

Last Class Summary

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- Overview Client-side Programming
- HTML, CSS, Javascript, Browsers
- Hypertext
- Markup
- Language
- HTML Elements
- HTML Tags
- HTML Attributes
- Best Practices

HTML Editing

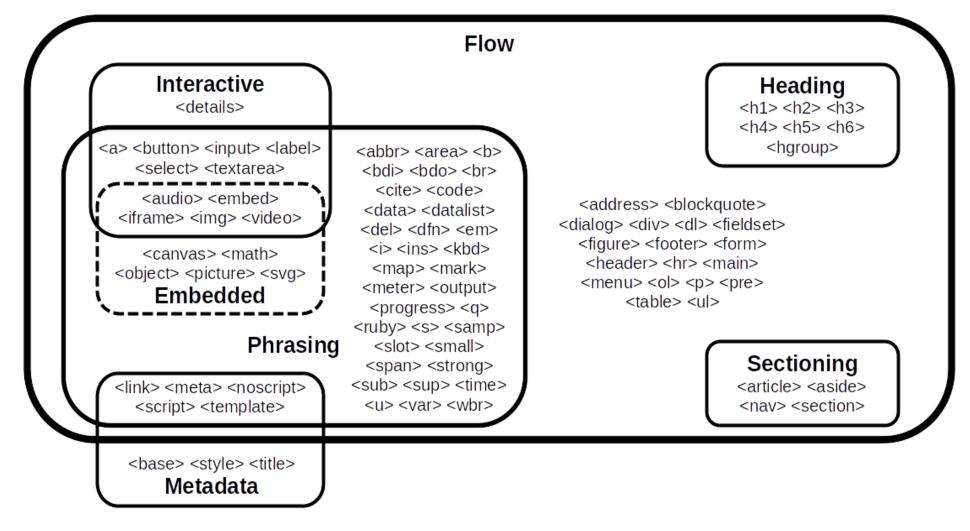
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- HTML Files Text Editor
- File extension .html or .htm
- Best Practice Filename to be based on functionality
 - Eg: Main web page (Homepage) index.html
- HTML errors Not fatal They do not crash the program

HTML Elements

HTML element content categories





HTML!DOCTYPE



• Syntax for HTML5

<!DOCTYPE html>

- Indicates browser HTML file
- Syntax may vary on version
- Empty element
 - No content
 - No ending tag

HTML <html>



- Syntax
- <html> content
- </html>
- <html> root element
- Contains all other elements except !DOCTYPE

HTML <head>



- <head> element between <html> and <body>
- <head> metadata
- Information generally not rendered
- Metadata tags <title>, <style>, <meta>, <link>, <script>, <base>
- Best Practice When opening a tag, have a "tab space" for each line until you close the tag. It helps in the readability of your HTML document.

HTML <title>



- <title> Set the title of the webpage.
- Generally used in every HTML document.
- Must be placed inside <head>.
- One <title> per webpage.

HTML <body>, , comments



- <body> document content
- Text, Paragraph, Formatting, Image, Hyperlinks, Tables, Lists, Frames

- Comment syntax <!-- content -->
- Best Practice Give a comment describing a web page as a first line of your HTML document.

- - Paragraph
- Browser renders a new line before and after element

HTML Text Formatting



- • or Bold text
- •<u> Underline
- • or <i> Emphasized text (Italic)
- •<mark> Marked text
- •<small> Smaller text
- • Deleted text represented as strikethrough
- •<ins> Inserted text represented as underline
- •<sub> Subscript text
- •<sup> Superscript text
- •<i> and are deprecated

HTML Headers



- Default text formatting
- •<h1> to <h6> elements
- •h1 Largest
- •h6 Smallest
- •Browser renders and decides the size
- •Can vary significantly between browsers

HTML Hyperlinks

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- <a> element (Anchor)
- Mandatory attribute href
- Syntax:
 - content
- All links underlined
- An unvisited link blue
- A visited link purple
- An active link red

HTML Internal Linking

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- Linking to a location within a webpage
- 1. Set location to go
 - Syntax:
- 2. Refer using href as usual.
 - Syntax: content

HTML Images, Special Character, <hr>>,



- ling element
- Mandatory attribute src
- Special characters like math characters
 - Added in code form
 - Syntax: &code;
-
 element
- Line break.
- <hr>> element
- Adds a horizontal line/rule
- Both <hr> and
 No closing tag

HTML Lists



- List element Closing tag optional
- Unordered List element Bullets
- Ordered List element Numbers
- Each or elements consist of 'n' number of elements
- and
 elements can be nested
- Newline after every closed list

HTML Tables



- - table element
 - <caption> caption element
 - row element
 - - data element
 - <colgroup> column group element styling group of columns
 - <col> column to be styled
 - <thead> table header element
 - - table head element
 - - table body element
 - - data element
 - <tfoot> table foot element
 - - data element

HTML iFrames



- Group multiple HTML files
- <iframe> element inline frame
- Styling Attributes/ CSS files
- Syntax:

```
<iframe src="HTML file" title="Title for the HTML file"></iframe>
```

HTML Example



Best Practices



- 1. Use HTML tags with the same case (preferably lower case).
- 2. Filename to be based on functionality.
- 3. When opening a tag, have a "tab space" for each line until you close the tag. It helps in the readability of your HTML document.
- 4. Give a comment describing a web page as a first line of your HTML document.

Summary



- Editing HTML files
- List of HTML Element
- !DOCTYPE HTML
- <html>, <head>, <title>, <body>, , Comment Elements
- Text Formatting
- HTML Headers, and Hyperlinks
- HTML Images, Special Character, <hr>,

- HTML Lists, Tables, iFrames
- Best practices

References



1. Paul J Deitel, Harvey M Deitel, and Abbey Deitel, "Internet and the world wide web: How to program," Pearson, Fifth Edition, 2012.

THANK YOU

