

Web Technology



Hypertext Markup Language (HTML)

Department of Computer Science and Engineering
Shiv Nadar University

Last Class Summary

- **Class Timings**
- **Mark Split-up**
- **Prerequisites**
- **Course Outcomes**
- **Full Stack Career Examples**
- **Software Development Life Cycle**
- **Web**
- **Web Client, Browser, Web Server**
- **Web 1.0 to 5.0**
- **Technology**
- **Technology vs Engineering**

Introduction – Web Technology

- **Client-side Programming**
 - **HTML**
 - **CSS**
 - **Javascript**
- **Server-side Programming**
- **Web Services**

HTML5, CSS3, and Javascript

- **HTML5**
- **CSS3**
- **Javascript**
- **Browsers**

HTML5, CSS3, and Javascript

- **HTML5 - Markup Language**
 - **Content and Structure**
- **CSS3**
- **Javascript**
- **Browsers**

HTML5, CSS3, and Javascript

- **HTML5 - Markup Language**
 - **Content and Structure**
- **CSS3 – Presentation**
 - **Advantage – Swap Styles**
- **Javascript**
- **Browsers**

HTML5, CSS3, and Javascript

- **HTML5 - Markup Language**
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- **CSS3 – Presentation**
 - **Advantage – Swap Styles**
- **Javascript – Dynamic web pages**
 - **Events**
- **Browsers**

HTML5, CSS3, and Javascript

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 - **Advantage – Swap Styles**
- **Javascript – Dynamic web pages**
 - **Events**
- **Browsers**
 - **Chrome, Firefox, Safari, Opera, Microsoft Internet Explorer 9/ Edge**

HTML

- **HTML**
 - **Hypertext Markup Language**
 - **Hypertext**

- **HTML**
 - **Hypertext Markup Language**
 - **Hypertext**
 - **Highlighted Links**
 - **Easy Navigation within or Across Webpages**
 - **Markup**

- **HTML**
 - **Hypertext Markup Language**
 - **Hypertext**
 - **Highlighted Links**
 - **Easy Navigation within or Across Webpages**
 - **Markup**
 - **Mark Text (Bold, Italic, Underline)**
 - **Language**

- **Language**

	English	C	HTML

HTML

- **Language**

	English	C	HTML
Alphabet	A-Z, a-z		

- **Language**

	English	C	HTML
Alphabet	A-Z, a-z	A-Z, a-z	A-Z, a-z

- **Language**

	English	C	HTML
Alphabet	A-Z, a-z	A-Z, a-z	A-Z, a-z
Numbers	0-9		

HTML

- **Language**

	English	C	HTML
Alphabet	A-Z, a-z	A-Z, a-z	A-Z, a-z
Numbers	0-9	0-9, 0 and 1, 0-7, 0-F	0-9

- **Language**

	English	C	HTML
Alphabet	A-Z, a-z	A-Z, a-z	A-Z, a-z
Numbers	0-9	0-9, 0 and 1, 0-7, 0-F	0-9
Words	Words		

- **Language**

	English	C	HTML
Alphabet	A-Z, a-z	A-Z, a-z	A-Z, a-z
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Words	Words	Tokens	Nodes

- **Language**

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Words	Words	Tokens	Nodes
Sentences	Grammar + Words = Sentences	Syntax + Tokens = Statements	Syntax + Nodes = Elements

- **Language**

	English	C	HTML
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Chapter/Book	Chapter/Book		

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Alphabet	A-Z, a-z	A-Z, a-z	A-Z, a-z
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Paragraph	Paragraph	Block	
Chapter/Book	Chapter/Book	Program	Web Page

- **Language**

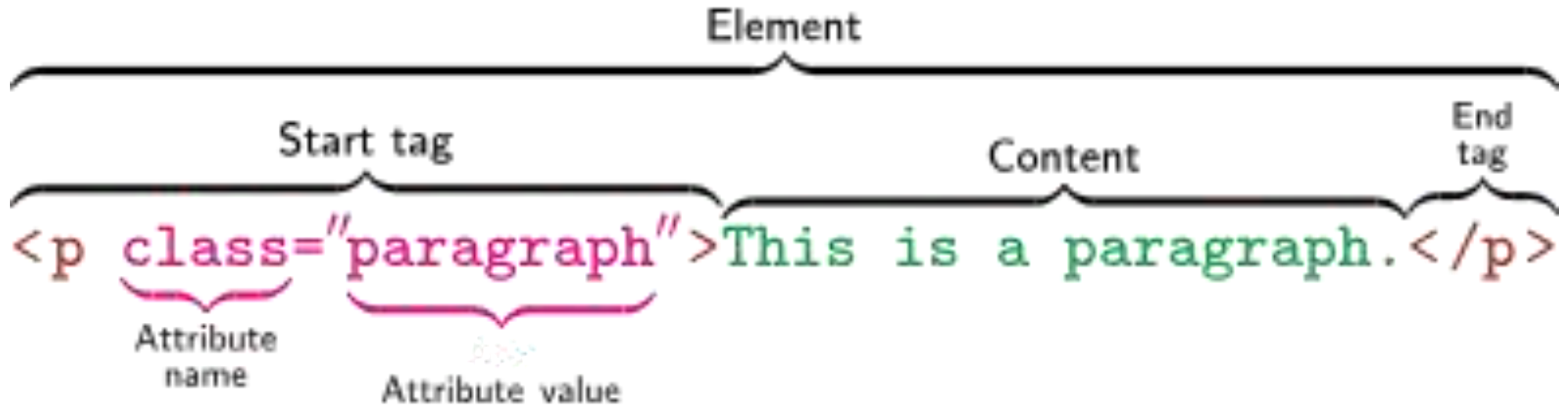
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Library	Library		

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Library	Library	Library	Website

Questions?

HTML - Element



HTML - Tags

- **Keywords enclosed in angular brackets (<>)**
- **Total Tags in HTML 5.2 - 142 tags**
- **115 Tags are compactible across HTML versions**
- **Forgetting to close tags – Syntax error**
- **Tags are not case sensitive**
- **Most tags have <tag_name> content <\tag_name>**
- **Best Practice 1 – Use HTML tags with the same case (preferably lower case)**

HTML – Tag Attributes

- **Keywords present in Tags**
- **Specific set of values**
- **Additional Characteristics to Elements**
- **Eg: height, width for an image element**
- **Not mandatory for most tags**
- **Found in start tag**

Best Practices

1. Use **HTML** tags with the same case (preferably lower case)

Summary

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

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