

CM1040 Web Development Week 5 Lecture Note

Notebook: Web Development

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Cornell Notes	Topic: Essential HTML	Course: BSc Computer Science
		Class: Web Development CM1040[Lecture]
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Essential Question:		
What is HTML?		
Questions/Cues:		
<ul style="list-style-type: none">• What was the need that HTML and the web were invented to solve?• What was the solution for the growing need?• What were the essential goals of HTML?• What is the version history of HTML?• What are the three influences on the development of HTML and who are the main parties involved in the development?• What is Markup?• What the purpose of the head section in HTML?• What goes inside the head section?		
Notes		
<ul style="list-style-type: none">• HTML & the web = were invented to find information in a scientific document archive since scientific information was held in different places around the world, there was a growing need to be able to connect information to other information<ul style="list-style-type: none">◦ It was Tim Berners-Lee working at CERN in 1989, who initially proposed a markup language, a way of embedding code into electronic content that could allow it to be presented and linked to other information elsewhere• HTML (Goals):<ul style="list-style-type: none">◦ Platform Independence, where information can be usable and look good on a variety of displays, the information will not be the same, but it can be made to fit the display◦ Textual information can be linked to other information via hypertext◦ Information can be in the form of different media including text, pictures, diagrams, audio, and video, this media can be drawn in form elsewhere in the world		

History of HTML

Version	Year
HTML	1991
HTML 2.0	1995
HTML 3.2	1997
HTML 4.01	1999
XHTML	2000
HTML5	2014

Evolution of Web Development

- ▲ The three influences on the development of HTML have been:
 - ▲ Standards definition of the language
 - ▲ Developers requiring more functionality
 - ▲ Browser vendors wanting to extend the features supported
- ▲ The key actors in the development are:
 - ▲ W3C, the "Official" web standards body, responsible for HTML 1, 2, 3, 4, XHTML
 - ▲ WHATWG, community of interested parties in HTML, responsible for HTML 5
- Markup = digital information or content is only information, not how or where it will be presented. Presentation software needs something extra in order to know how to present the information, this is done by adding extra instructions with the content that the browser can use to identify different types of content so it can present it appropriately
- Head Section (HTML) = Purpose is to hold information about the document and its contents. This will help the browser to process the document and it will help search engines find the document. Information includes:
 - Information about the page known as HTML page meta information or metadata
 - Page title, between the title tag
 - Extra description within the meta tag
 - Names of the authors, base URL for the site, and if the page refreshes automatically
 - Setting the proportion of the width of the device display that we want to occupy, which is particularly useful for mobile displays
 - Setting the character set used, normally UTF-8

```
1 <!DOCTYPE html>
2
3 <html lang="en">
4
5 <head>
6   <title>South London Reading Club - Home</title>
7   <meta charset="UTF-8">
8   <meta name="description" content="This is a website for a community of people
9     interested in reading books which enables discussion and sharing.">
10  <meta name="keywords" description="Book Reading Discussion 'Reading Club'">
11  <meta name="author" content="Online Reading Community">
12  <meta name="viewport" content="width=device-width, initial-scale=1.0">
13  <meta name="refresh" content="600">
14  <meta name="robots" content="noindex,nofollow">
15 </head>
16 <body>
17 </body>
18
19 </html>
```

Summary

In this week, we learned about the need for HTML, the essential goals of HTML, the version history of HTML, the three influences on development of HTML, what Markup is, the purpose of the Head section in HTML and what goes inside the head section.