

Session 1

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Course Objectives



- During the course students will be able to:
 - Understand World Wide Web,
 - Design Static website using HTML & CSS,
 - Design Dynamic web site using PHP,
 - Develop Web-based Applications,
 - Use JavaScript & jQuery for Interactive web development.

Course Distribution



- Course is divided in Five parts
- 1. HTML & CSS
- 2. PHP
- 3. MySQL
- 4. JavaScript & jQuery
- 5. AJAX

Reference Material



Online Resources

- http://www.w3schools.com/html/default.asp
- http://www.w3schools.com/css/default.asp
- http://www.w3schools.com/php/
- https://secure.php.net/
- http://www.w3schools.com/js/default.asp
- http://www.w3schools.com/jquery/default.asp
- http://www.w3schools.com/json/



Hypertext Markup Language

HTML



- HTML is formatting language used to develop web pages
- HTML is not a programming language
- ▶ HTML stands for Hyper Text Markup Language
- A markup language is set of markup tags
- tags or markups to specify how the contents of web page will be displayed
- ▶ Each HTML tag describes different document content

HTML



- Before starting HTML coding
- Prepare your tools
- You can simply use a text editor
 - Notepad, Notepad++ on Windows
 - TextEdit on a Mac
 - Brackets
- Save your files with the .html file extension

Benefits of HTML



Simplicity

- HTML is simple but powerful language.
- Any person can use HTML easily to create web pages.

Platform Independent

- It works on any platform.
- It means that HTML document created for one type of computer system can be used of different types of computer system.

Benefits of HTML



Easy Navigation

- HTML web pages are linked together using hyperlinks.
- It provides easy navigation between different documents.

Attractive and Easier to read

- HTML allows the use of graphics and animations.
- It delivers rich content and arranges the contents creatively.

Limitations of HTML



No Programming Capabilities

- HTML provides no programming capabilities.
- It only provides formatting text, pictures and sound, etc.

Static

HTML can only be used to create static web pages.

Fixed Tag Set

- HTML does not provide the facility to create customized tags.
- It is not possible to extend HTML.

Not Reusable

HTML code is used for specific pages and cannot be reused.

HTML Example



```
<!DOCTYPE html>
<html>
    <head>
         <title>Page Title</title>
    </head>
    <body>
         <h1>My First Heading</h1>
         My first paragraph.
    </body>
</html>
```

HTML Tags



HTML tags are keywords (tag names) surrounded by angle brackets:

<tagname>content</tagname>

- HTML tags normally come in pairs like and
- The first tag in a pair is the start tag, the second tag is the end tag
- The end tag is written like the start tag, but with a slash before the tag name

Web Browsers



- The purpose of a web browser (Chrome, IE, Firefox, Safari) is to read HTML documents and display them.
- The browser does not display the HTML tags,
 - but uses them to determine how to display the document





<html></html>
<head></head>
<title>Page title</title>
<body></body>
<h1>This is a heading</h1>
This is a paragraph.
This is another paragraph.

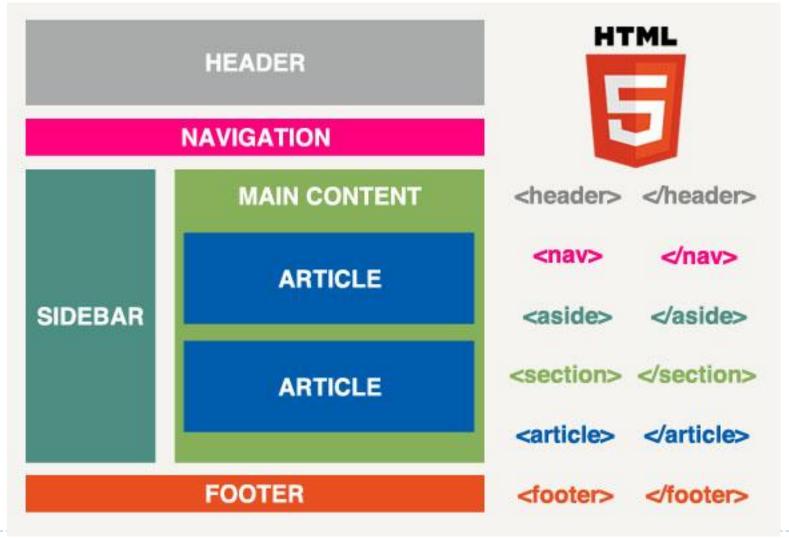
HTML Versions



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

HTML5 Design Model





Let's Start Development



- Open your favorite text editor
- Start Demo

Tags and Elements



- Paragraphs
- Line break
<</p>
- Horizontal line <hr/>
- Headings <h1>, <h2>, <h3>, <h4>, <h5>, <h6>,
- Space
- Pre-formatting
- Grouping elements, <div>, <header>, <hgroup>, <nav>, <section>, <article>

Display Images



- <figure> tag
-
- <figcaption>



Links and Navigation in HTML

Links



- When we link to another page in our own web site,
 - the link is known as an internal link.
- When we link to a different site,
 - it is known as an external link.
- A link is specified using the <a> element.
- Anything between the opening <a> tag and the closing tag becomes part of the link that users can click in a browser.

Linking to Other Web Pages



- To link to another web page, the opening <a> tag
 must carry an attribute called href;
 - the value of the href attribute is the name of the file you are linking to.
- Example

<body>

Return to the home page .

</body>

Linking to Other Web Pages



- If we want to link to a different site, we can use the <a>element again,
 - but this time we specify the full web address for the page we want to link to rather than just the filename.
- Here is an example of a link that will take us to an external site, in this case the Wrox web site:

Linking to Other Web Pages



- We can also use the title attribute on a link.
- The value of the title attribute should be a description of what the link will take us to,
 - which will be displayed in a tooltip when we hover over the link.
- This can be especially helpful if we do use an image for a link.
- The following is a link to the Google homepage.

<body>

 Google is a very popular search engine.

</body>