

HTML

What is HTML?

HTML is a markup language for describing web documents (web pages)

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- HTML stands for **H**yper **T**ext **M**arkup **L**anguage
- A markup language is a set of **markup tags**
- HTML documents are described by **HTML tags**
- Each HTML tag **describes** different document content

HTML document

- An **HTML document** is a file containing hypertext markup and its filename most often ends in the .html extension. An HTML document is a text document read in by a Web browser and then rendered on the screen.

HTML

- HTML code is based on **tags**, which provide instructions for formatting the document
- A tag starts with an angle bracket and the 'less than' sign: '<'.
<
- The tag ends with an angle bracket and the 'greater than' sign '>'.
>
- **Tags** tell the processing program, often the web browser, what to do with the text.
- For example, to make the word 'Hello' bold, you would use the opening bold tag and then the closing bold tag ,
Hello
- like this: Hello

Structure of HTML

- `<!DOCTYPE html>`
`<html>`
`<head>`
`<meta charset="UTF-8">`
`<title>Title of the document</title>`
`</head>`

`<body>`
Content of the document.....
`</body>`

`</html>`

HTML

- The DOCTYPE declaration defines the document type to be HTML
- The text between `<html>` and `</html>` describes an HTML document
- The text between `<head>` and `</head>` provides information about the document
- The text between `<title>` and `</title>` provides a title for the document
- The text between `<body>` and `</body>` describes the visible page content
- The text between `<h1>` and `</h1>` describes a heading
- The text between `<p>` and `</p>` describes a paragraph

HTML Tags

- HTML tags are keywords (tag names) surrounded by **angle brackets**:
- `<tagname>content</tagname>`
- HTML tags normally come **in pairs** like `<p>` and `</p>`
- 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:



index.htm



file:///C:/Users/myuser/Desktop/index.htm



My First Heading

My first paragraph.

<!DOCTYPE> Declaration

- **The <!DOCTYPE> Declaration**
- The <!DOCTYPE> declaration helps the browser to display a web page correctly.
- There are different document types on the web.
- To display a document correctly, the browser must know both type and version.
- The doctype declaration is not case sensitive. All cases are acceptable:

<head> Element

- **The HTML <head> Element**
- The <head> element is a container for metadata (data about data)
- It is placed between the <html> tag and the <body> tag.

Meta data

- Meta data means data about data. HTML meta data is data about the HTML document.

HTML Versions

Since the early days of the web, there have been many versions of HTML:

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

The HTML `<title>` Element

- The HTML `<title>` element is meta data. It defines the HTML document's title.
- The title will not be displayed in the document, but might be displayed in the browser tab.