Introduction to Web Design & Computer Principles
CSCI-UA 4

HTML
Hyper Text Markup Language
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Hyper Text Markup Language

A language for describing Web pages

HTML is not a programming language, it is a markup language

A markup language is a set of markup tags

HTML uses markup tags to describe Web pages
HTML

Early history key dates

1990: Original HTML specification written by physicist, Tim Berners-Lee for cross-referencing documents

1993: First text-based browser, Lynx, released

1993: Mosaic browser released, adding images, nested lists, forms

1994: First World Wide Web conference held in Geneva

1994: Netscape is formed

1994: The World Wide Web Consortium is formed, w3.org
Keywords surrounded by angle brackets, for example: `<html>`

HTML tags normally come in pairs, like `<h1>` and `</h1>`

The first tag in a pair is the “start tag,” the second tag is the “end tag”

Start and end tags are also called “opening” and “closing” tags
HTML Element
Everything from the start tag to the end tag

Example:

```
<p>This is a paragraph.</p>
```

Start tag:
```
<p>
```

Element content:
This is a paragraph.

End tag:
```
</p>```
HTML Documents

Web Pages

HTML documents describe Web pages
Contain HTML tags in plain text
HTML documents are Web pages
Web Browsers
For rendering HTML documents

Examples include Firefox, Chrome, Safari, and Internet Explorer

Reads HTML documents and displays them as Web pages

Web browsers do not display HTML tags, but use them to interpret the content of the page
Example

Bare minimum

<!DOCTYPE html>
<html>
<head>
<title>Document Title</title>
</head>
<body>
<p>Document content.</p>
</body>
</html>
Example Explained

<!DOCTYPE html> tells browsers that they are interpreting an HTML document

Text between <html> and </html> describes the Web page

Text between <title> and </title> is displayed as the page title

Text between <body> and </body> is the visible page content

Text between <p> and </p> is a paragraph of text
HTML5
New standard for HTML

First version published in 2008
Still a work in progress but supported by all major browsers

- New Elements
- New Attributes
- Full CSS3 Support
- Video and Audio
- 2D/3D Graphics
- Web Applications
- Smartphone Apps
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