HTML

HTML Versions

- No clear standards existed in the early years of the language

- Semantic language devoid of presentation details

- Browser vendors pushed many presentational elements and attributes into the language

- CSS was created to overcome the fragmentation

HTML Versions - Who Decides?

- ▶ HTML5 is specified by the HTML Working Group of the W3C following the W3C process

- ▶ W3C
  - ▶ The World Wide Web Consortium (W3C) is an international community where Member organizations, a full-time staff, and the public work together to develop Web standards. Led by Web inventor Tim Berners-Lee and CEO Jeffrey Jaffe, W3C's mission is to lead the Web to its full potential.

Tim Berners-Lee
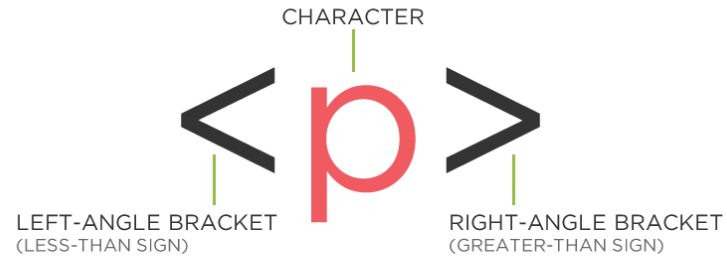
- The inventor of the World Wide Web.
  - He made a proposal for an information management system in March 1989

- He implemented the first successful communication between a Hypertext Transfer Protocol (HTTP) client and server via the Internet sometime around mid-November of that same year.
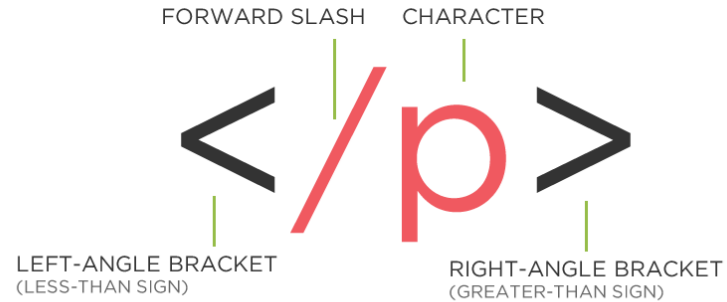
First Website

▶ The first website built was at CERN within the border of France, [30] and was first put online on 6 August 1991:

  ▶ http://info.cern.ch/hypertext/WWW/TheProject.html

Basic tag

OPENING TAG

CHARACTER

< p >

LEFT-ANGLE BRACKET
(LESS-THAN SIGN)

RIGHT-ANGLE BRACKET
(GREATER-THAN SIGN)

CLOSING TAG

FORWARD SLASH   CHARACTER

</p>

LEFT-ANGLE BRACKET
(LESS-THAN SIGN)

RIGHT-ANGLE BRACKET
(GREATER-THAN SIGN)

Basic Structure

```html
<!DOCTYPE HTML>
<html>
        <head>
            <title>Title of the document</title>
        </head>
        <body>
            <p>The content of the document......</p>
        </body>
</html>
```

<!DOCTYPE HTML>

- The <!DOCTYPE> declaration must be the very first thing in your HTML document, before the <html> tag.
- Instruction to the web browser about what version of HTML the page is written in
- HTML5 there is only one
  - `<!DOCTYPE html>`
- HTML4
  - `<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">`
  - `<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">`

<html></html>

- ▶ The <html> tag tells the browser that this is an HTML document.

- ▶ These are the opening tags for your webpage

- ▶ All markup should be placed inside of these tags

<head><head>

- The <head> element can include tags for css, javascript, keywords, here are some:
  - <title> (this element is required in an HTML document), <style>, <base>, <link>, <meta>, <script>, <noscript>
- The elements placed in the head tag are meant for browsers to preprocess before loading the rest of the document

<body></body>

- The <body> tag defines the document's body.

- The <body> element contains all the contents of an HTML document, such as text, hyperlinks, images, tables, lists, etc.

HTML Structure