

CONTENT & FORM

Understanding the function and use of HTML & CSS

Lecture 2: Jan. 6 2016

Part 1: HTML organizes content

Introduction to HTML

HTML

Content = **HTML**, the language of web pages interpreted by web browsers.

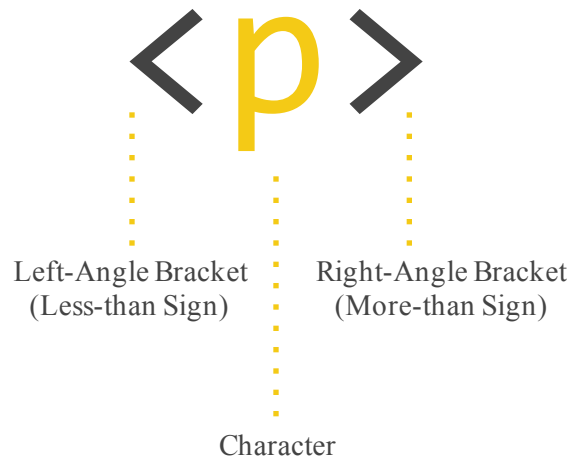
HTML
= **HyperText Markup Language**

HTML is the language which defines web content.

Comprised of a series of nested **tags**.

HTML can be created with any simple text editor.

Easily written by us, easily read by machines.



Semantic Markup

Semantic: relating to meaning in language or logic.

Semantic markup organizes your content according to the **hierarchy and structure** of information.

Frequently Asked Questions on W3 heading

An FAQ list is really a cop-out from managed information. You should be able to find everything you want to know by browsing from the WWW project page, as everything should paragraph
be arranged in a logical way. Here though are things which maybe didn't fit into the structure,
with pointers to the answers which maybe did. Its an experiment, started May 92. The
questioners are anonymous.

- [I am just starting: how do I find out more?](#)
- [How does www keep track of the available servers?](#) list
- [How does W3 compare with WAIS and Gopher ?](#)
- [How do I create my own server ?](#)
- [Can I get W3 documents if I'm not on the internet ?](#)

An HTML page

This is heading 1

This is a paragraph.

This is heading 2

- This is an unordered list item
- This is an unordered list item
- This is an unordered list item

This is heading 3

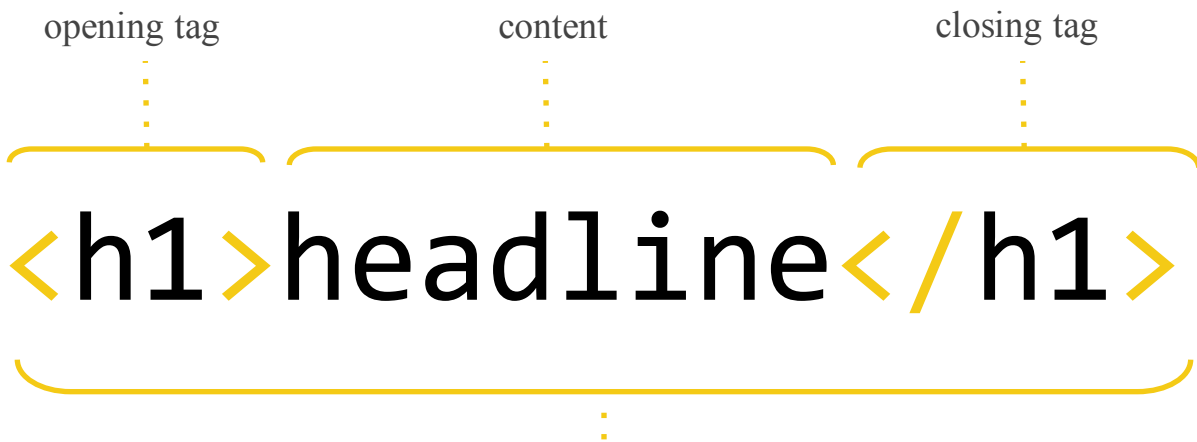
1. This is an unordered list item
2. This is an unordered list item
3. This is an unordered list item

```
index.html
1 <html>
2 <head>
3   <title>Put your page title here</title>
4 </head>
5 <body>
6   <h1>This is heading 1</h1>
7   <p>
8     This is a paragraph.
9   </p>
10  <h2>This is heading 2</h2>
11  <ul>
12    <li>This is an unordered list item</li>
13    <li>This is an unordered list item</li>
14    <li>This is an unordered list item</li>
15  </ul>
16  <h3>This is heading 3</h3>
17  <ol>
18    <li>This is an unordered list item</li>
19    <li>This is an unordered list item</li>
20    <li>This is an unordered list item</li>
21  </ol>
22 </body>
23 </html>
```

HTML Tags

Tags are always between two angle brackets, used to **mark-up** content.

All content is surrounded between **opening** and **closing** tags. A closing tag is indicated with a forward slash “/”.



HTML element = content + markup

Elements and Attributes

attribute name attribute value

⋮ ⋮

home

⋮

opening tag

A diagram illustrating the components of an HTML opening tag. The tag is shown as home. Brackets and dots are used to identify parts: a bracket above 'href' is labeled 'attribute name', a bracket above 'index.html' is labeled 'attribute value', and a bracket below the entire '' sequence is labeled 'opening tag'. Vertical dots are placed above the attribute name and value, and below the opening tag label.

Attributes provide additional information about the contents of an element

appear with the opening tag of an element

consist a **name** and a **value**, separated by an equals sign

values must be wrapped in quotation marks

A list of common HTML elements

Basic elements

`<html> ... </html>`

Document metadata

`<head> ... </head>`

`<title> ... </title>`

Content sectioning

`<header> ... </header>`

`<nav> ... </nav>`

`<section> ... </section>`

`<footer> ... </footer>`

`<h1> ... </h1>`

`<h2> ... </h2>`

Text content

` ... `

` ... `

`<p> ... </p>`

`
`

Flow content

``

Inline text semantics

` ... `

` ... `

Consult the Mozilla Developer Network
for a [list of common elements](#)

Introduction to HTML: Review

You should now have an understanding of:

- ❑ The function of HTML — what we mean by semantic markup
- ❑ How to construct HTML tags
- ❑ How to use HTML elements and attributes