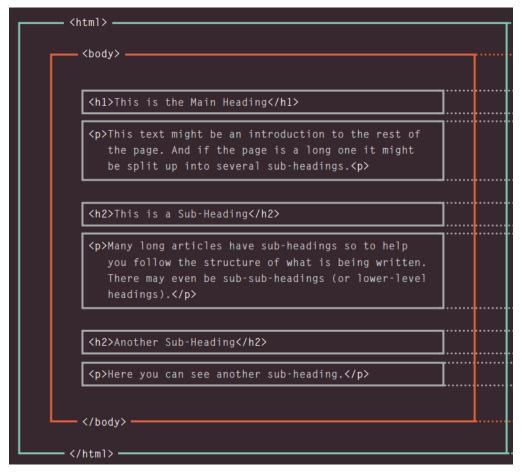
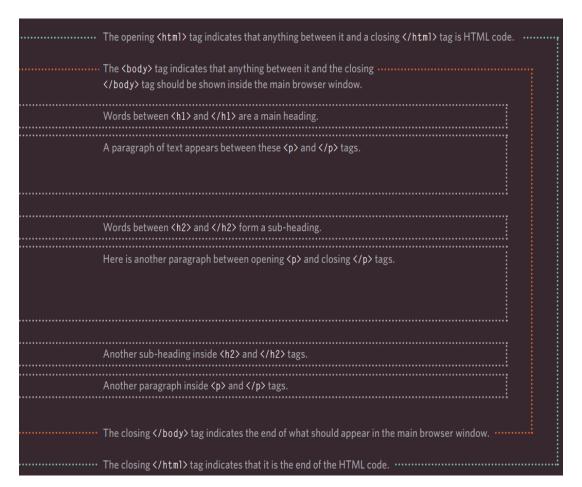
Web and Mobile application Development

Structure of HTML

HTML Uses Elements to Describe the Structure of Pages





Attributes

Attributes provide additional information about the contents of an element. They appear on the opening tag of the element and are made up of two parts: a name and a value, separated by an equals sign.

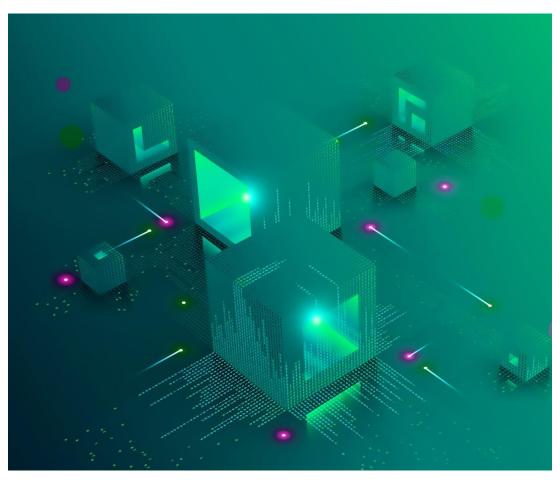
```
ATTRIBUTE
NAME

CP lang="en-us">Paragraph in English

ATTRIBUTE
VALUE
```

Here an attribute called lang is used to indicate the language used in this element. The value of this attribute on this page specifies it is in US English.

Attributes (Cont.)



- The attribute name indicates what kind of extra information you are supplying about the element's content. It should be written in lowercase.
- The value is the information or setting for the attribute. It should be placed in double quotes.
- Different attributes can have different values.
- The majority of attributes can only be used on certain elements, although a few attributes (such as lang) can appear on any element.
- Most attribute values are either pre-defined or follow a stipulated format. We will look at the permitted values as we introduce each new attribute.
- The value of the lang attribute is an abbreviated way of specifying which language is used inside the element that all browsers understand.

Summary of Structure

HTML pages are text documents.

HTML uses tags (characters that sit inside angled brackets) to give the information they surround special meaning.

Tags are often referred to as elements.

Tags usually come in pairs.

The opening tag denotes the start of a piece of content; the closing tag denotes the end.

Opening tags can carry attributes, which tell us more about the content of that element.

Attributes require a name and a value.

To learn HTML you need to know what tags are available for you to use, what they do, and where they can go.

Semantic and Structural tags



Structural Tags: the elements that you can use to describe both headings and paragraphs.



EFFECT ON OUTPUT e.g <h1>



Semantic Tags which provides extra information;



NO DIFFERENCE ON OUTPUT, E.G <HTML> only used for better understanding

Headings

Revised

<h1> HTML chapter-02/headings.html <h1>This is a Main Heading</h1> <h2> <h2>This is a Level 2 Heading</h2> <a>h3>This is a Level 3 Heading <h3> <h4>This is a Level 4 Heading</h4> <h5>This is a Level 5 Heading</h5> <h6>This is a Level 6 Heading</h6> <h4> <h5> <h6> RESULT This is a Main Heading HTML has six "levels" of headings: This is a Level 2 Heading <h1> is used for main headings This is a Level 3 Heading <h2> is used for subheadings This is a Level 4 Heading If there are further sections This is a Level 5 Heading under the subheadings then the <h3> element is used, and so This is a Level 6 Heading on...

Paragraphs

Revised

HTML

chapter-02/paragraphs.html



- A paragraph consists of one or more sentences that form a self-contained unit of discourse. The start of a paragraph is indicated by a new line.
- Text is easier to understand when it is split up into units of text. For example, a book may have chapters. Chapters can have subheadings. Under each heading there will be one or more paragraphs.

To create a paragraph, surround the words that make up the paragraph with an opening tag and closing tag.

By default, a browser will show each paragraph on a new line with some space between it and any subsequent paragraphs.

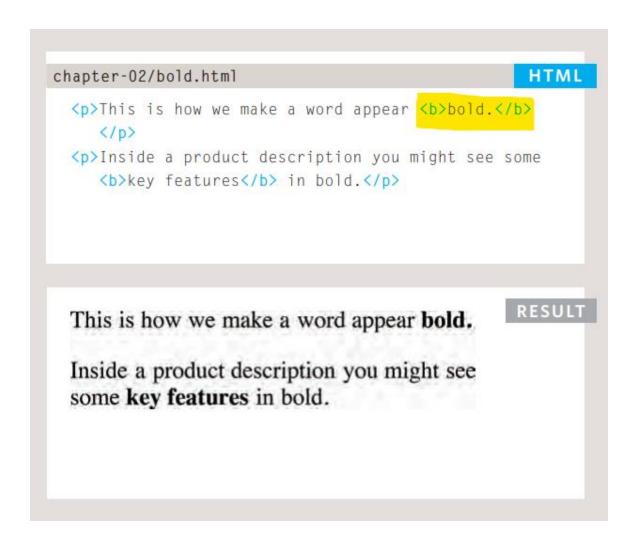
RESULT

A paragraph consists of one or more sentences that form a self-contained unit of discourse. The start of a paragraph is indicated by a new line.

Text is easier to understand when it is split up into units of text. For example, a book may have chapters. Chapters can have subheadings. Under each heading there will be one or more paragraphs.

Bold

By enclosing words in the tags **and** we can make characters appear bold.



Italic

By enclosing words in the tags *and* we can make characters appear italic.

This is how we make a word appear italic.

RESULT

It's a potato Solanum teberosum.

Captain Cook sailed to Australia on the Endeavour.

Superscript & Subscript

<sup>

The <sup> element is used to contain characters that should be superscript such as the suffixes of dates or mathematical concepts like raising a number to a power such as 2².

<sub>

The <sub> element is used to contain characters that should be subscript. It is commonly used with foot notes or chemical formulas such as H₂O.

HTML

chapter-02/superscript-and-subscript.html

- On the 4th of September you will learn about E=MC².
- The amount of CO₂ in the atmosphere grew by 2ppm in 2009₁.

RESULT

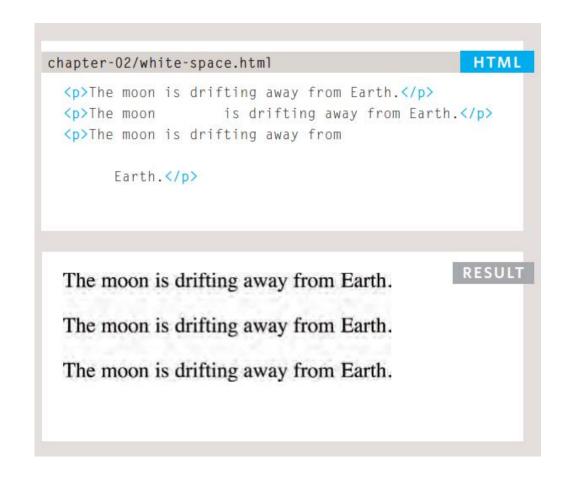
On the 4th of September you will learn about E=MC2.

The amount of CO2 in the atmosphere grew by 2ppm in 20091.

WMA Lecture # 7

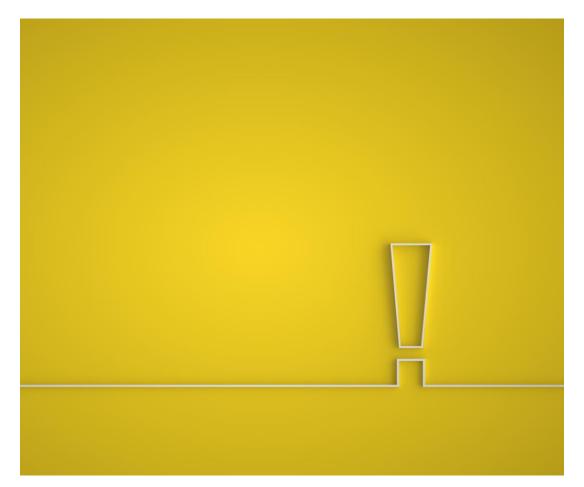
White Space

When the browser comes across two or more spaces next to each other, it only displays one space. Similarly, if it comes across a line break, it treats that as a single space too. This is known as white space collapsing



Self closing tags

- A self-closing tag in HTML is a kind of HTML tag
 that does not need to be closed manually by its
 closing tag, which means it does not have a
 separate closing tag as </tag>.
- Some few self-closing tags are <hr/>,



Line Breaks

Although, the browser will automatically show each new paragraph or heading on a new line. But if you wanted to add a line break inside the middle of a paragraph you can use the line break tag.

.

The
br /> tag is an empty tag which means that it has no end tag.

HTML

chapter-02/line-breaks.html

The Earth
gets one hundred tons heavier every day
due to falling space dust.

RESULT

The Earth
gets one hundred tons heavier every day
due to falling space dust.

Horizontal Rules

To create a break between themes — such as a change of topic in a book or a new scene in a play — you can add a horizontal rule between sections using the <hr /> tag.

HTML

chapter-02/horizontal-rules.html

```
Venus is the only planet that rotates
    clockwise.
<hr />
Jupiter is bigger than all the other planets
    combined.
```

RESULT

Venus is the only planet that rotates clockwise.

Jupiter is bigger than all the other planets combined.

WMA Lecture # 7

Nested Tags

Tags within tag.

WMA Lecture # 7