

Chapter 1: Getting started with HTML

Version	Specification	Release Date
1.0	N/A	1994-01-01
2.0	RFC 1866	1995-11-24
3.2	W3C: HTML 3.2 Specification	1997-01-14
4.0	W3C: HTML 4.0 Specification	1998-04-24
4.01	W3C: HTML 4.01 Specification	1999-12-24
5	WHATWG: HTML Living Standard	2014-10-28
5.1	W3C: HTML 5.1 Specification	2016-11-01

Section 1.1: Hello World

Introduction

HTML (**H**ypertext **M**arkup **L**anguage) uses a markup system composed of elements which represent specific content. *Markup* means that with HTML you declare *what* is presented to a viewer, not *how* it is presented. Visual representations are defined by [Cascading Style Sheets \(CSS\)](#) and realized by browsers. [Still existing elements that allow for such](#), like e.g. [font](#), "are entirely obsolete, and must not be used by authors"[1].

HTML is sometimes called a programming language but it has no logic, so is a **markup language**. HTML tags provide semantic meaning and machine-readability to the content in the page.

An element usually consists of an opening tag (`<element_name>`), a closing tag (`</element_name>`), which contain the element's name surrounded by angle brackets, and the content in between:

```
<element_name>...content...</element_name>
```

There are some HTML elements that don't have a closing tag or any contents. These are called void elements. Void elements include ``, `<meta>`, `<link>` and `<input>`.

Element names can be thought of as descriptive keywords for the content they contain, such as `video`, `audio`, `table`, `footer`.

A HTML page may consist of potentially hundreds of elements which are then read by a web browser, interpreted and rendered into human readable or audible content on the screen.

For this document it is important to note the difference between elements and tags:

Elements: `video`, `audio`, `table`, `footer`

Tags: `<video>`, `<audio>`, `<table>`, `<footer>`, `</html>`, `</body>`

Element insight

Let's break down a tag...

The `<p>` tag represents a common paragraph.

Elements commonly have an opening tag and a closing tag. The opening tag contains the element's name in angle

brackets (**<p>**). The closing tag is identical to the opening tag with the addition of a forward slash (/) between the opening bracket and the element's name (**</p>**).

Content can then go between these two tags: **<p>**This is a simple paragraph.**</p>**.

Creating a simple page

The following HTML example creates a simple ["Hello World"](#) web page.

HTML files can be created using any [text editor](#). The files must be saved with a .html or .htm[2] extension in order to be recognized as HTML files.

Once created, this file can be opened in any web browser.

```
<!DOCTYPE html>
<html lang="en">

  <head>
    <meta charset="UTF-8">
    <title>Hello!</title>
  </head>

  <body>
    <h1>Hello World!</h1>
    <p>This is a simple paragraph.</p>
  </body>

</html>
```

Simple page break down

These are the tags used in the example:

Tag	Meaning
<!DOCTYPE>	Defines the HTML version used in the document. In this case it is HTML5. See the doctypes topic for more information.
<html>	Opens the page. No markup should come after the closing tag (</html>). The lang attribute declares the primary language of the page using the ISO language codes (en for English). See the Content Language topic for more information.
<head>	Opens the head section, which does not appear in the main browser window but mainly contains information <i>about</i> the HTML document, called <i>metadata</i> . It can also contain imports from external stylesheets and scripts. The closing tag is </head> .
<meta>	Gives the browser some metadata about the document. The charset attribute declares the character encoding . Modern HTML documents should always use UTF-8 , even though it is not a requirement. In HTML, the <meta> tag does not require a closing tag. See the Meta topic for more information.
<title>	The title of the page. Text written between this opening and the closing tag (</title>) will be displayed on the tab of the page or in the title bar of the browser.
<body>	Opens the part of the document displayed to users, i.e. all the visible or audible content of a page. No content should be added after the closing tag </body> .

- <h1>** A level 1 heading for the page.
See headings for more information.
- <p>** Represents a common paragraph of text.

1. ↑ [HTML5, 11.2 Non-conforming features](#)
2. ↑ .htm is inherited from the legacy [DOS](#) three character file extension limit.