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This tutorial is from w3.org covering HTML basics. Read through this document and use copy and paste for the “Try It” and “Challenge” sections.

<https://www.w3.org/community/webed/wiki/HTML/Training>

Contents:

* **What is HTML?**

**HTML** is a **HyperText Markup Language** for creating Web pages. It is used to create Web pages. That is, Web pages all over the world consist of HTML.

**HTML5** is a markup language used for structuring and presenting content on the World Wide Web. It is the fifth and final major HTML version that is a World Wide Web Consortium (W3C) recommendation. The current specification is known as the HTML Living Standard. It is maintained by the Web Hypertext Application Technology Working Group (WHATWG), a consortium of the major browser vendors (Apple, Google, Mozilla, and Microsoft).

<https://en.wikipedia.org/wiki/HTML5>

* **Tag syntax**

HTML is using tags for its syntax. A tag is composed with special characters: <, > and /. They are interpreted by softwares to compose an HTML element. HTML elements usually come in tag pairs.

For opening a simple element with a start tag

* it starts with <
* then a list of characters without space, the tag name (or element)
* ends usually with a >.

Then closing the simple element with an end tag

* it starts with </
* then the same list of characters without space, the tag name (or element)
* ends usually with a >.
* **Create HTML**

We can write HTML by hand using a basic text editor such as Notepad on Windows, TextEdit on MacOS, gedit on Ubuntu Linux, etc. However we should save a page in the UTF-8 encoding

Web developers often use HTML editors:

Adobe Dreamweaver

Microsoft FrontPage or Expression Web

VSCode

* **The HTML Document**

The following example is a basic HTML document:

<!doctype html>

<html lang="en">

<head>

Document metadata

</head>

<body>

Document contents

</body>

</html>

**doctype**

The DOCTYPE must be specified, and be top in the HTML document. That is, the DOCTYPE exists before the <html> start tag.

The DOCTYPE declaration is <!DOCTYPE html> and is case-insensitive in the HTML syntax.

<!DOCTYPE html>

or

<!doctype html>

* **Metadata**

The <meta> HTML element represents metadata that cannot be represented by other HTML meta-related elements, like <base>, <link>, <script>, <style> or <title>.

<https://developer.mozilla.org/en-US/docs/Web/HTML/Element/meta>

* **Basic content**
* Heading

Headings are specified by <h1>, <h2>, <h3>, <h4>, <h5> and <h6>.

* Paragraph

Paragraphs are specified by <p>.

* Line

horizontal rules are specified by <hr>.

* List
* unordered list

Unordered list is specified by <ul> and <li>.

* ordered list

Ordered list is specified by <ol> and <li>.

* definition list

Definition list is specified by <dl>, <dt> and <dd>.

* **Hyperlinks**

Hyper Links are specified by <a>.

Linked document is represented by the href attribute.

* **Link options**

In which window to open the link document is specified by the target attribute.

If you would like to open new window, you should use "\_blank" for value of the target attribute.

* \_blank: Open the new window.
* \_self: Open the current one.
* \_parent: Open the parent browsing context of the current one.
* \_top: Open the most top-level browsing context of the current one.
* **Image**

Images are specified by <img>.

* The img element can omit end element. This is because It is empty element.
* The image given by the src attribute is the embedded content.
* The images are often save on images folder.