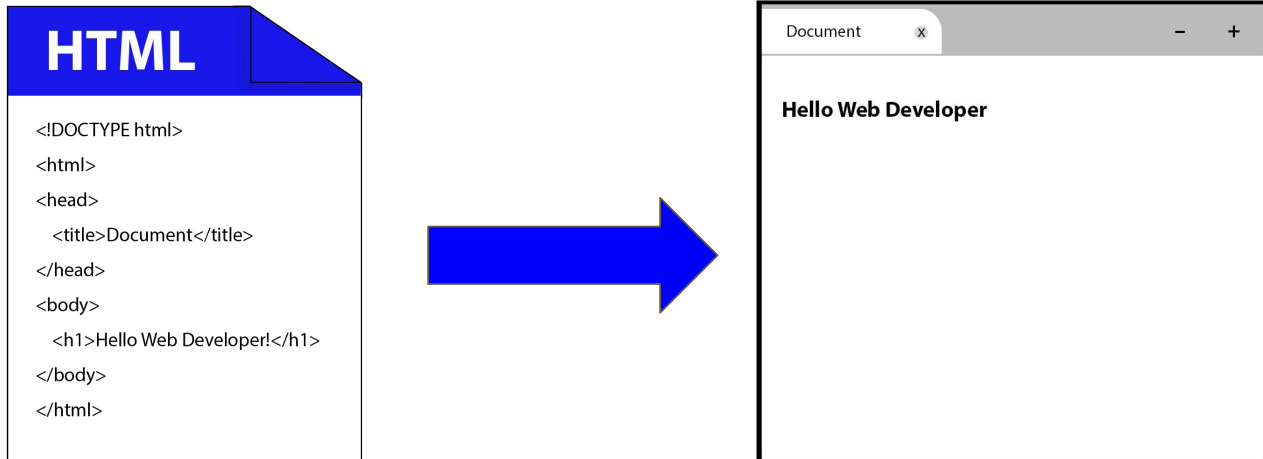# Section 1 : HTML

By PHOEM Phanith

Content

1. Introduction to HTML
2. HTML Element
3. HTML Attribute
4. Anatomy of an HTML document (Boilerplate HTML)

Introduction to HTML
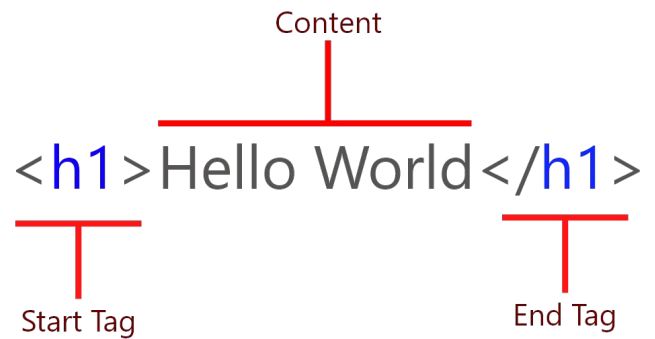
- **HTML** (HyperText Markup Language) is the most basic building block of the Web. It defines the meaning and structure of web content.
- *Example:*

HTML

```
<!DOCTYPE html>
<html>
<head>
    <title>Document</title>
</head>
<body>
    <h1>Hello Web Developer!</h1>
</body>
</html>
```

➡️

Document x − +

Hello Web Developer

HTML Element

Definition: An HTML element is defined by a start tag, some content, and an end tag.

- **Start Tag:** This consists of the name of the element , wrapped in opening and closing angle brackets.
- **Content:** This is the content of the element.
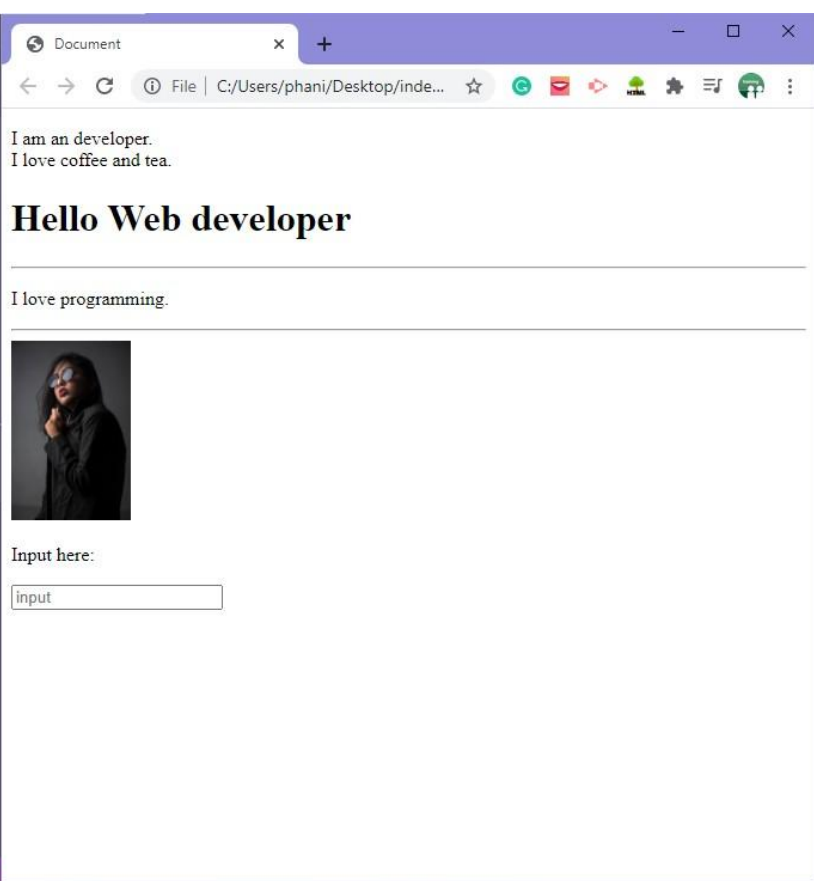- **End Tag:** This is the same as the opening tag, except that it includes a forward slash before the element name.

Content

<h1>Hello World</h1>

Start Tag

End Tag

***Note: Some of HTML element such as:

-
 : line Break
- <hr> : Horizontal Ruler
- <img> : Embeds an image into the document
- <input> : to create interactive controls for web-based forms
- <link> : To link an external stylesheet.
- <meta> : Represents metadata.

The HTML elements above don't require a closing tag to be valid,they call it "Self-Closing-Tag".

```html
1   <!DOCTYPE html>
2   <html>
3   <head>
4       <!-- <meta> : Represents metadata. -->
5       <meta charset="utf-8">
6
7       <title>Document</title>
8       <!-- <link> : To link an external stylesheet. -->
9       <link rel="stylesheet" href="style.css">
10
11  </head>
12  <body>
13
14      <!-- <br> : line Break -->
15      <p>I am an developer. <br> I love coffee and tea.</p>
16
17      <!-- <hr> : Horizontal Ruler -->
18      <h1>Hello Web developer</h1>
19      <hr>
20      <p>I love programming.</p>
21      <hr>
22
23      <!-- <img> : Embeds an image into the document -->
24      <img src="women.jpg" alt="women" width="100px">
25
26      <!-- <input> : to create interactive controls  -->
27      <p>Input here:</p>
28      <input type="text" placeholder="input">
29
30  </body>
31  </html>
```
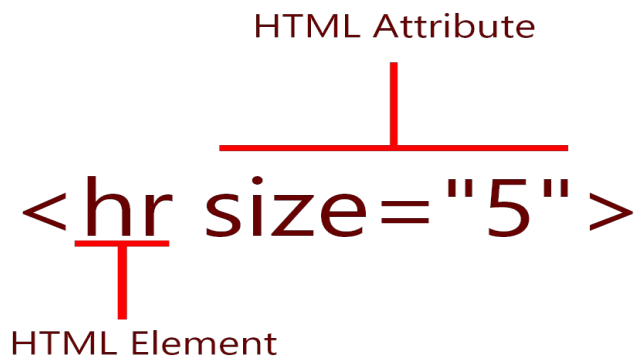
I am an developer.
I love coffee and tea.

Hello Web developer

I love programming.

Input here:

input

HTML Attribute

Definition: HTML attributes provide additional information about HTML elements.

- Attributes are always specified in the start tag
- Attributes usually come in name/value pairs like: name="value"
- Example:

HTML Attribute

`<hr size="5">`

HTML Element

Anatomy of an HTML document (Boilerplate)

```html
1    <!DOCTYPE html>
2    <html>
3        <head>
4            <meta charset="utf-8">
5            <title>My test page</title>
6        </head>
7        <body>
8            <p>This is my page</p>
9        </body>
10   </html>
```

Reference

W3school (https://www.w3schools.com/default.asp)

Mozilla Web Doc (https://developer.mozilla.org/en-US/docs/Web/HTML)

DevDocs (https://devdocs.io)