Introduction to Web Development

A sneak peek into HTML - part 1

TIP: HTML is the standard markup language for creating web pages

What you need:

- **A text editor**

- **A web browser**

Learning Activity 1:

Let's install the tools we need to start building web pages.

- A text editor (e.g. Sublime text)

- A web browser (e.g Chrome)

GOALS:

- **Define HTML and what is used for**
- **Create HTML files**
- **Open HTML files in the text editor**
- **Create basic HTML tags (p, heading)**
- **Understand the basic HTML structure**

Learning Activity 2:

Setting up our coding Environment (files and folders.)

- Create a folder on your desktop
- Create an HTML file
- Open HTML file in sublime text

Wanna try something fun?

```
<marquee>
Try putting some text here
and see what gets displayed
in the browser
</marquee>
```

What is HTML ?

HTML stands for Hyper Text Markup Language

HTML

Is Responsible for the content and structure of a web page.
HTML Consist of series of elements.
HTML elements are represented by tags. E.g <p>
HTML elements tells the browser how to display content.(**e.g** displaying a paragraph of text on a web page)

What is an HTML element?

HTML elements consist of an opening tag <>, some content, and a closing tag </>.

E.g <p> this is a paragraph text on my website </p>

THE PARTS

HTML ELEMENT

`<p>` this is a paragraph text on my website `</p>`

Opening Tag

Content

Closing Tag
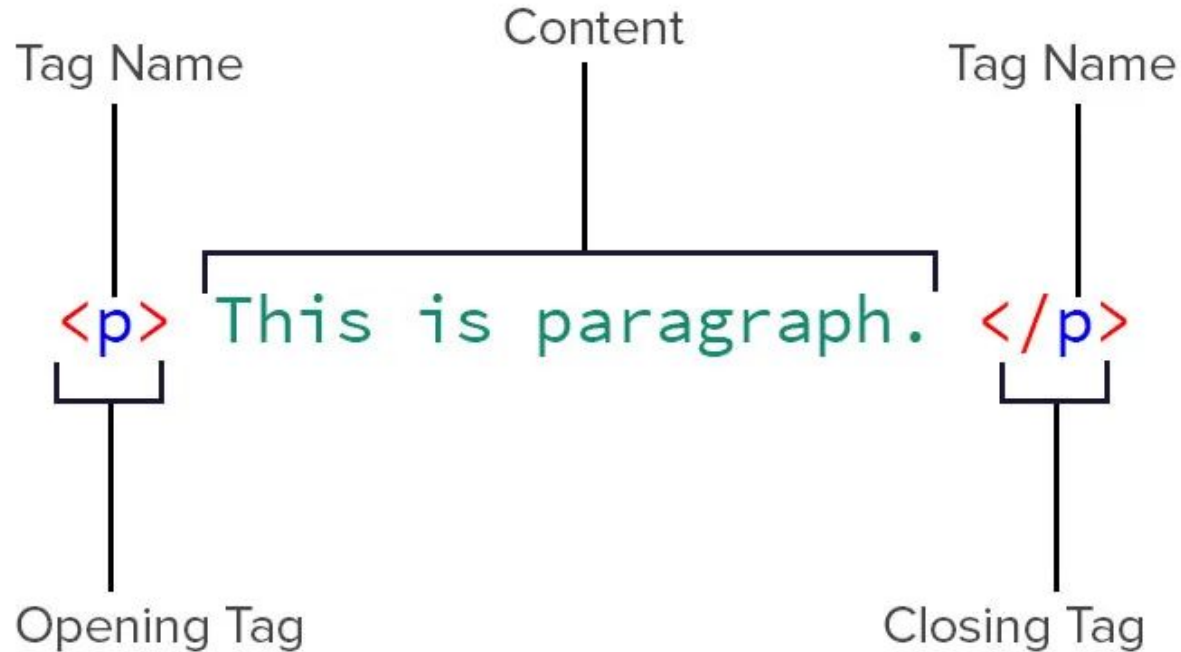
What is HTML tag ?

Tags are the starting and ending parts of an html element.

They begin with the **<** symbol and end with the **>** symbol.

Whatever is written inside **< and >** are called tags.
E.g <p>this is paragraph**</p>**

The Tag Life

Tag Name

Content

Tag Name

`<p>` This is paragraph. `</p>`

Opening Tag

Closing Tag

The Tag Life

```
<tag>


</tag>
```

HTML Headings

HTML headings are defined with the **<h1>** to **<h6>** tags.

<h1> defines the most important heading, and **<h6>** the least important.

```
<h1>Biggest heading</h1>
<h2>2nd Biggest heading</h2>
<h3>3rd Biggest heading</h3>
<h4>4th Biggest heading</h4>
<h5>5th Biggest heading</h5>
<h6>Smallest heading</h6>
```
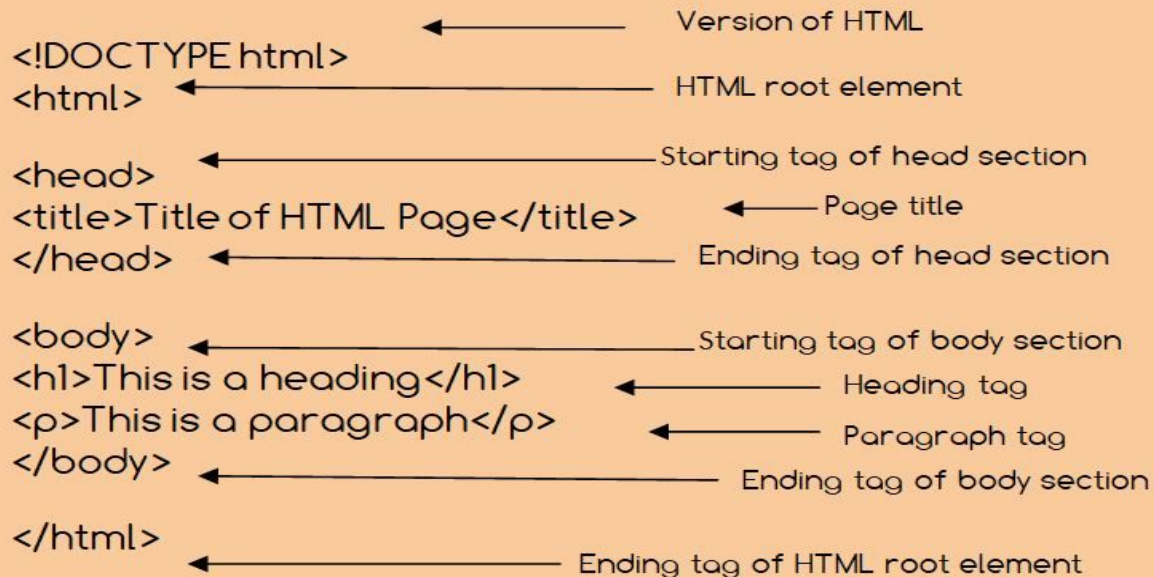
HTML Paragraph

HTML paragraphs are defined with the **<p>** tag.

```
<p>This is a paragraph of text</p>

<p>
  This is another paragraph of some
  random text
</p>
```

The basic HTML structure


```
<!DOCTYPE html>                        ←————  Version of HTML
<html>                         ←————  HTML root element

<head>                  ←————  Starting tag of head section
<title>Title of HTML Page</title>     ←——  Page title
</head>            ←————  Ending tag of head section

<body>              ←————  Starting tag of body section
<h1>This is a heading</h1>      ←——  Heading tag
<p>This is a paragraph</p>      ←——  Paragraph tag
</body>          ←————  Ending tag of body section

</html>            ←————  Ending tag of HTML root element
```

The Basic Structure

```
<!DOCTYPE html>
<html>
    <head>
        <title></title>
    </head>
    <body>

    </body>
</html>
```

RECAP:

- Define HTML and what is used for

- Create HTML files

- Open HTML files in the text editor

- Create basic HTML tags

- Understand the basic HTML structure

GOAL:

- **Identify HTML attribute**

- **Add links to our web page**

- **Add images to our web page**

- **Comments in HTML**

- **Add list of items to our web page**

Learning Activity :3
Let's practice what we have learnt so far.

- ## Create an HTML file and open in sublime text.

- ## Let create the basic HTML structure and add some text.

GOAL:

- **Identify HTML attribute**
- **Add links to our web page**

HTML Attributes

Attributes provide additional information about HTML elements.

```
<element attribute="value"> </element>
```

HTML Links

HTML links are defined with the **<a>** tag.

The link's destination is specified in the **href** attribute.

Attributes provide additional information about HTML elements.

```html
<a href="https://www.codetraingh.com">
  Take me to Codetrain website
</a>
```

RECAP:

- **Identify HTML attribute**
- **Add links to our web page**

GOAL:

- Add images to our web page

- Add list of items to our web page

- Comments in HTML

HTML Images

HTML images are defined with the **<img>** tag.

The source file **(src)**, alternative text **(alt)**, **width** and **height** are provided as attributes .

```
<img src="logo.png" alt="codetrain logo" width="100"
height="100"/>
```

HTML Lists

An Unordered List:

- Item
- Item

An Ordered List:

1. First item
2. Second item

```html
<ul>
  <li>Coffee</li>
  <li>Tea</li>
  <li>Milk</li>
</ul>
```

```html
<ol>
  <li>Coffee</li>
  <li>Tea</li>
  <li>Milk</li>
</ol>
```

HTML Comments

Commenting in HTML allows developers to leave notes about their code, its functionality or to indicate necessary changes for the future.

```
<!-- write your comments here/ or whatever you want comment -- >
```

NOTE: HTML comments are not displayed in the browser, but they can help document your HTML source code.

RECAP:

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RECAP:

- **Identify HTML attribute**

- **Add links to our web page**

- **Add images to our web page**

- **Comments in HTML**

- **Add list of items to our web page**

Now let's practise some HTML!

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INSTRUCTIONS

- Make sure you've installed a text editor or IDE, and a web browser
- Create a new folder on your computer (you can name it html-practice)
- Open your text editor and drag the folder into it
- Create a new file in your text editor and save it as *practice1.html* (make sure it's saved in the folder)
- Let's start with the basic html structure

PROJECT 1 TEMPLATE

- **Some big heading**
- Some paragraphs of text
- A nice image
- **A smaller heading maybe**
- Some more paragraphs of text
- Some links to websites
- **Another smaller heading**
- A list of books you've read? Or list of tricks your pet can do? (or whatever, it's your story not mine lol)
- Images of some of the books?

Thanks!

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