Principle of Being Professional

Build Awesome Website with HTML/CSS/JavaScript/Netlify

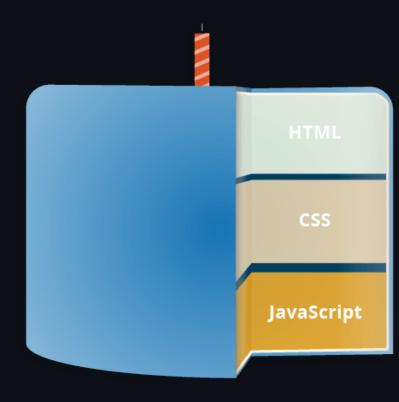
Setup

- VS Code
- Settings
 - Enable: Format on save
 - Extension: Prettier
 - Extension: Auto Rename Tag



3 Layers in Web Technology

- HTML: markup language
 - Defining structure
- css : stylesheet language
 - Apply styling to HTML content
- JavaScript: scripting language
 - Add dynamics to content



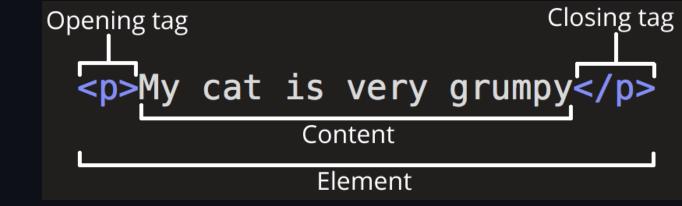
HTML

HTML

- HyperText Markup Language
- Standard markup language for documents designed to be displayed in a web browser.
- Can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript.

HTML element

- Encloses parts of the content to make it appear a certain way.
- Consists of
 - Opening tag
 - Closing tag
 - Content



Attribute

Contain extra information about the element.

```
class="editor-note">My cat is very grumpy
```

Empty element

```
<img src="images/firefox-icon.png" alt="My test image" />
```

- Two attributes
- No content
- Does not require / at the end.
- However, in React JS, this is required. Therefore you should write

```
<img src="images/firefox-icon.png" alt="My test image" />
```

HTML document

<!DOCTYPE html>

A required preamble (คำนำ).

<html></html>

- Wraps all the content on the entire page
- Root element

<head></head>

 Container for all the stuff to include on the HTML page that isn't the content you are showing to your page's viewers.

<meta charset="utf-8">

- Set the character set of the document to UTF-8.
 - Includes most characters from the vast majority of written languages.
- No reason not to set this.

<title></title>

- Sets the title of the page
 - Browser tab the page
 - Bookmark/favorite

<body></body>

- Contains all the content shown to web users
 - Text, images, videos, games, playable audio tracks, ...

CSS

CSS

- Cascading Style Sheets (CSS)
- Stylesheet language used to describe the presentation of a document written in HTML.
- Not a programming language nor a markup language.

External stylesheet

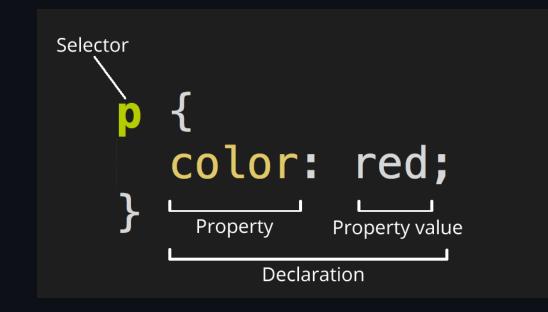
index.html

style.css

```
h1 {
  color: blue;
}
```

Anatomy

- Selector
 - Defines the element(s) to be styled
- Properties
- Property values



Selectors

- Element selector
 - Also called a tag or type selector
- ID selector
- Class selector
- Attribute selector (Skip today)
- Pseudo-class selector (Skip today)
- Pseudo-element selector (Skip today)

Element selector

• Select all <h1> elements

```
h1 {
  color: blue;
}
```

ID Selector

• Select the element on the page with the specified ID

```
d="my-id">Text

#my-id {
  color: blue;
}
```

Class selector

- Select the element(s) on the page with the specified class.
 - Multiple instances of the same class can appear on a page.

```
Text
.my-class {
  color: blue;
}
```

Font

- Google Font
- Add @import statement
- Add font-family attribute.

JavaScript

JavaScript

- JavaScript is a scripting or programming language
- Allows implementation of complex features on web pages.
 - Content updates
 - Animation
 - Interactive maps
 - Audio/video contents

Setup

- Add <script src="script.js" defer></script> in header tag.
- Create script.js

Example 1

alert("Hello World");

Example 2

```
cbutton id="btn">Click me</button>

function createParagraph() {
   let para = document.createElement("p");
   para.textContent = "You clicked the button!";
   document.body.appendChild(para);
}

const button = document.getElementById("btn");
button.addEventListener("click", createParagraph);
```

Example 3

```
<button id="btn">Click me</button>

const button = document.getElementById("btn");
button.addEventListener("mouseover", () => {
  alert("พี่ขาอย่าทับหนู");
});
```

Sending Line Notify

```
<input id="input" type="text" /> <button id="btn">Message Me</button>
```

- Get your Line Notify token here
- JavaScript code
- Proxy server https://cors.iecmu.com

Deploy

https://www.netlify.com/