Before Starting

Let's learn about the structure of Web and What HTML & CSS are.

html 1

Starting with HTML

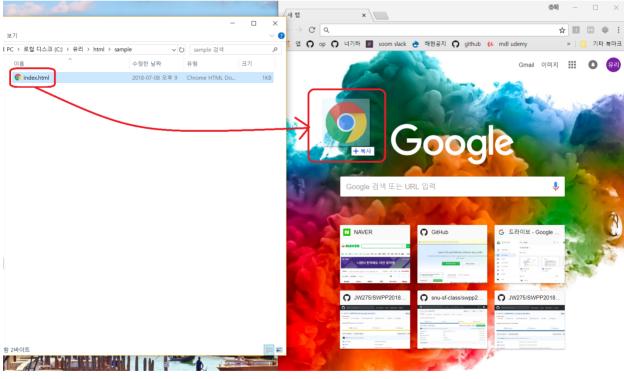
Let's try making our simplest code using HTML!

Our First HTML Code

- 1. Open NotePad application

 These instructions are made assuming the user is using Windows OS
- 3. Save the file as <u>index.html</u>

 Make sure you set the file format to 'All files'
- 4. Find the file from File Explorer and drag the file to a new tab in Chrome browser



5. You have just made your first code with HTML!

The <h1> is a heading 1 tag, which is used to define the most important heading.

Let's try adding some more code!

Try adding some code to your index.html file like below.

```
<!-- start of page -->
<h1>This is my first page.</h1>
<!-- explanation about my feelings -->
I am very proud of it.

Hurray! <br />
Would you like to take a look at it?
```

Then, drag it to your browser again to view how your page has changed. Your page should look similar as below.



This is my first page.

I am very proud of it. Hurray! Would you like to take a look at it?

What kind of changes do you notice? Let's go over them.

• You cannot see the content between <!-- and --> on the browser!

This is because <!-- and --> are used to indicate the start and the end of a comment.

A **comment** is a piece of code which is ignored by the browser. It is used to clarify codes. Using comments is a good practice to enhance code readability as your code gets more complicated.

- The content displayed by the tag is smaller
 The tag is used to indicate paragraphs
- Pressing Enter on your code does not mean a new line on the browser!
 HTML ignores new line made by pressing the <Enter> key.
 (It also does not reflect 2 or more spaces between letters)
- Instead, the
 tag makes a line break

Nested Structure of HTML

HTML Lists

Try replacing your index.html file with the following code.

```
<h1>Things to do</h1>

Listen carefully to today's class
Have a splendid dinner
Go to the grocery store to buy the following items
```

Check how your page looks on your browser.

- tag is for ordered lists
- We use <1i> tags to represent each listed item

What if you wanted to add a list of items to buy below the third element? Just like you put tags in between the start and end tags of , you can simply add elements inside another element! This is called **nesting**.

Try changing a part of your index.html code like the following.

Check how it looks on your browser.

As you may have guessed, the
 tag is used for unordered lists.

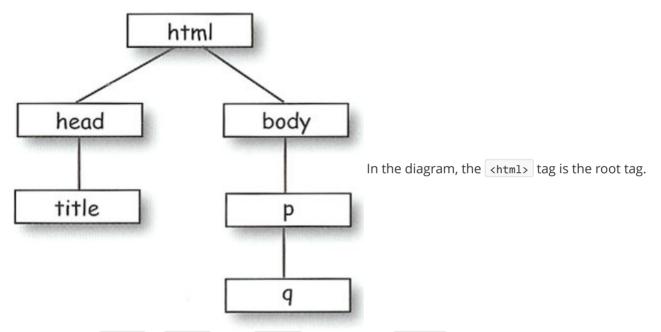
In HTML, it is a convention to break line and **indent 2 spaces** when nesting elements, but this is not mandatory. (However, it is recommended to follow the convention for code readability.)

Learn more about HTML lists

Understanding Nested Relations

We can have a better understanding about nested relations using **trees** to visualize them. Here is an example of a simple HTML code.

The structure of this code can be translated as the following tree diagram.



The parent of <head> is <html> , while <head> has one child, <title> .

HTML Document Structure

The following is the basic HTML document structure.

- <!DOCTYPE html> lets the browser know that we are using modern HTML code.

 This should come at the very beginning of the code to make sure the browser reads our code using HTML5.
- The whole code is inside the chtml element. The browser will now know that this file is an HTML file.
- The <head> element contains information about the web page.
 - The <meta> tag with the attribute charset set as "utf-8" tells the browser we want access to utf-8 character sets on our page.

Notice that the <meta> is an empty element, just like
!

(We will get to attributes soon, don't worry if you do not know what it is for now.)

- The <title> tag contains the title of our page, which is showed on the top of our browser tab.
- The content to be displayed is inside the <body> element.

 Note that **only** the content inside the <body> element is displayed in a browser.