인터넷과웹기초

Lab 01. HTML (1)





실습 개요

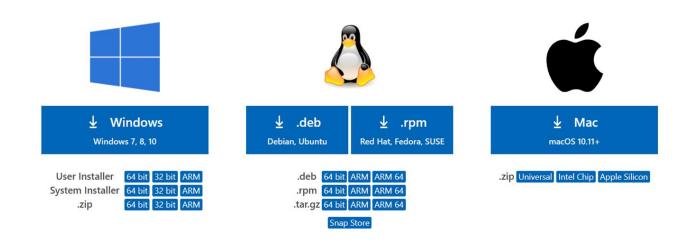
- 조교
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- 개요
 - 약 1시간 실습
 - ZOOM을 통한 비대면 실습
 - 실습을 검사하지 않음.
 - 매실습 강의마다 별도의 과제 출제 예정

실습 환경 (1)

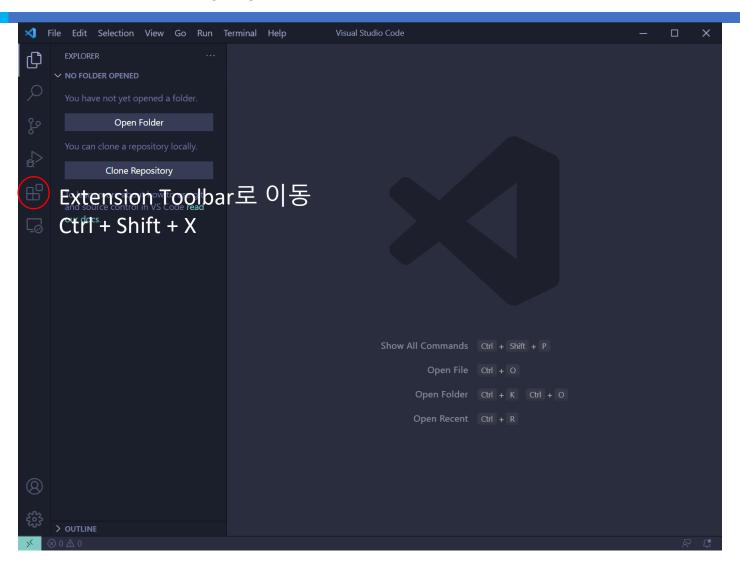
- Visual Studio Code (VSCode)
 - 실습 및 과제는 VSCode를 통해 진행함.
 - 링크를 통해 설치 파일을 다운로드 및 설치

Download Visual Studio Code

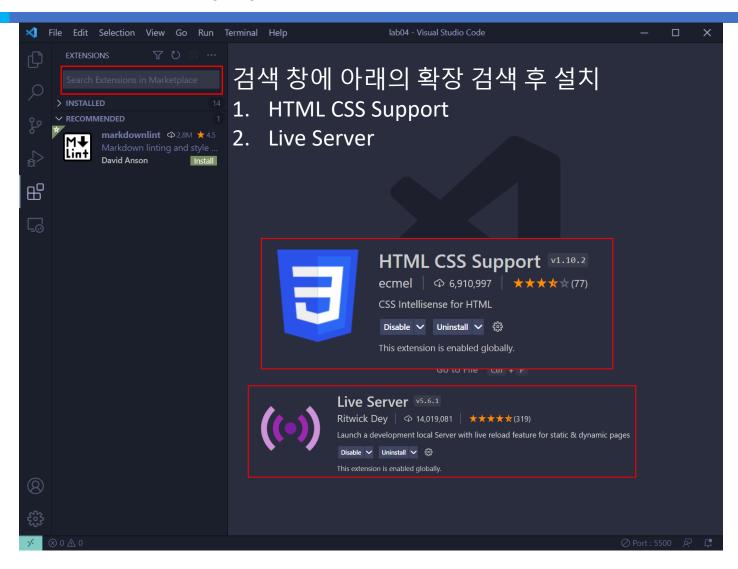
Free and built on open source. Integrated Git, debugging and extensions.



실습 환경 (2)



실습 환경 (3)



Tips

- Useful websites
 - Tutorials: W3schools.com; <u>Link</u>
 - References: MDN Web Docs; <u>Link</u>
- Developer-Roadmap
 - https://github.com/kamranahmedse/developerroadmap

Structure

- Structure of HTML5
 - <!DOCTYPE html>
 - HTML5 선언
 - <html>
 - HTML 문서의 시작과 끝
 - <head>
 - 웹 페이지의 정보
 - <body>
 - 웹 페이지의 본문

Elements and Attributes

Elements

 The HTML element is everything from the start tag to the end tag.

```
<h1>My First Heading</h1>
My first paragraph.
```

Start tag	Element content	End tag
<h1></h1>	My First Heading	
	My first paragraph.	
	none	none

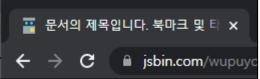
Attributes

It provides additional information about elements

```
Attribute
My cat is very grumpy
```

Elements: <title>, <h>

- <title>
 - It is required in HTML documents.
 - It defines a title in the browser toolbar.



<h1> ... <h6>

```
Output
1장
1절
1.
1.2.
1.2.3.
```

Elements: <meta>

- <meta>
 - It is used to specify the character set, page description, keywords, author of the document, and view port settngs.

Output meta information goes inside the head section.

Elements: <style>

- <style>
 - It is used to define style information for HTML page.

```
<!DOCTYPE html>
   <html>
 3 <head>
    <title>Page Title</title>
    <style>
       body
   {background-color: powderblue;}
       h1 {color: red;}
       p {color: blue;}
    </style>
   </head>
   <body>
12
13
14 <h1>This is a Heading</h1>
   This is a paragraph.
16
   </body>
17
   </html>
19
20
21
22
23
```

This is a Heading

This is a paragraph.

Elements: <link>

- - It defines the relationship between the current document and an external resource.

```
<!DOCTYPE html>
   <html>
   <head>
   <title>Page Title</title>
    <link rel="stylesheet"</pre>
   href="mystyle.css">
   </head>
   <body>
   <h1>This is a Heading</h1>
   This is a paragraph.
12
13
   </body>
   </html>
14
15
16
17
18
19
20
21
22
23
```

This is a Heading

This is a paragraph.

Elements: <script>

- <script>
 - it is used to define client-side JavaScript.

```
<!DOCTYPE html>
 2 | <html>
 3 <head>
     <title>Page Title</title>
   <script>
     function myFunction() {
   document
   .getElementById("demo").
   innerHTML = "Hello JavaScript!";
10
     </script>
11
12 </head>
   <body>
13
14
15 <h1>My Web Page</h1>
16 A Paragraph
   <button type="button"</pre>
   onclick="myFunction()">
19 Try it
   </button>
20
21
22 </body>
23 </html>
```

My Web Page

A Paragraph

Try it

My Web Page

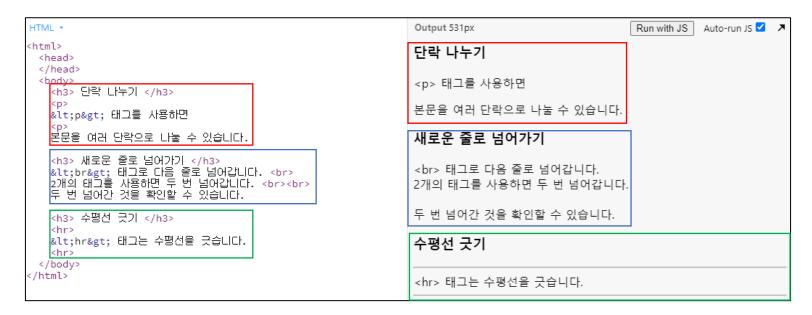
Hello JavaScript!

Try it

Elements: ,
, <hr>

- - Paragraph element
-

 - Line break element
- <hr>
 - Thematic break element



Entities

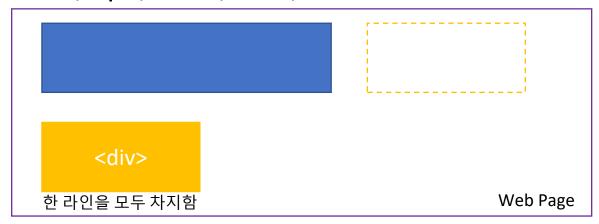
Entities

- HTML에서 문자나 기호는 UTF-8 코드체계로 작성됨.
 - &entity; or &#number;
 - ex) $2 \& \text{lt}: 3 \rightarrow 2 < 3$

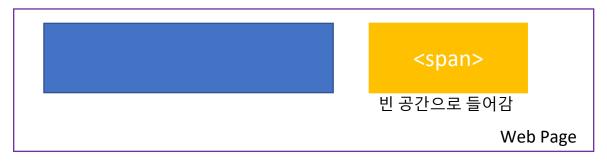
Result	Description	Entity Name	Entity Number
	non-breaking space		
<	less than	<	<
>	greater than	>	>
&	ampersand	&	&
"	double quotation mark	"	 4 ;
•	single quotation mark (apostrophe)	'	'
¢	cent	¢	¢
£	pound	£	£
¥	yen	¥	¥
€	euro	€	€
©	copyright	©	©
®	registered trademark	®	®

Elements: Block vs. Inline

- Block tag
 - <div>, , <h1>, , ...



- Inline tag
 - , , <a>, , ...



Elements: list

- - 중첩 리스트

: ordered list

<! unordered list</p>

```
HTML +
<html>
 <head>
 </head>
 <body>
  <h3> 중첩 리스트 만들기 </h3>
  <l
   >라면의 종류
    국물 라면
    비빔 라면
   :li>라면 끓이는 법
   몽을 끓인다.면을 넣는다.
     스프를 넣는다.
   </body>
</html>
```

Output 중첩 리스트 만들기 • 라면의 종류 ㅇ 국물 라면 ㅇ 비빔 라면 짜장 라면 • 라면 끓이는 법 1. 물을 끓인다. 2. 면을 넣는다. 3. 스프를 넣는다.

Elements: table (1)

- - 표 전체 구성
 - 제목, 헤드, 바디, 바닥으로 구성됨.

```
    <caption>표제목</caption>
    <thead> ... </thead>
     ... 
    <tfoot> ... </tfoot>
```

- 행과 열 만들기; <u>link</u>
 - : 행 만들기
 - : 헤드 정보를 가진 셀
 - : 데이터 정보를 가진 셀

Elements: table (2)

```
HTML *
<html>
 <head>
 </head>
 <body>
 <!-- table의 속성은 CSS로 다루는 것이 바람직함 -->
 <caption> my pets </caption>
   <thead>
    
    Knocky
    Flor
   </thead>
   Breed
    Jack Russell
    Poodle
   Age
    16
    9
   Owner
    Mother-in-law
    Me
   Eating Habits
    Eats everyone's leftovers
    Nibbles at food
   </body>
</html>
```

Output

my pets

	Knocky	Flor
Breed	Jack Russell	Poodle
Age	16	9
Owner	Mother-in-law	Me
Eating Habits	Eats everyone's leftovers	Nibbles at food

출처: MDN Web Docs

Webform (1)

- 웹 폼
 - 로그인, 등록, 검색, 예약 등, 웹 서비스에서 사용자의 입력을 받기 위해 사용됨
 - Reference; <u>link</u>

Element	Description
<button></button>	The <button></button> HTML element represents a clickable button, used to submit forms or anywhere in a document for accessible, standard button functionality.
<datalist></datalist>	The <datalist> HTML element contains a set of option elements that represent the permissible or recommended options available to choose from within other controls.</datalist>
<fieldset></fieldset>	The <fieldset></fieldset> HTML element is used to group several controls as well as labels (label) within a web form.
<u><form></form></u>	The <form> HTML element represents a document section containing interactive controls for submitting information.</form>
<u>⟨input⟩</u>	The <input/> HTML element is used to create interactive controls for web-based forms in order to accept data from the user; a wide variety of types of input data and control widgets are available, depending on the device and user agent. The <input/> element is one of the most powerful and complex in all of HTML due to the sheer number of combinations of input types and attributes.
<label></label>	The <label> HTML element represents a caption for an item in a user interface.</label>
<legend></legend>	The <legend> HTML element represents a caption for the content of its parent fieldset.</legend>

<meter></meter>	The <meter> HTML element represents either a scalar value within a known range or a fractional value.</meter>
<optgroup></optgroup>	The <optgroup></optgroup> HTML element creates a grouping of options within a select element.
≼option>	The <option></option> <u>HTML</u> element is used to define an item contained in a select, an optgroup, or a datalist element. As such, <option></option> can represent menu items in popups and other lists of items in an HTML document.
<output></output>	The <output></output> HTML element is a container element into which a site or app can inject the results of a calculation or the outcome of a user action.
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	The <pre>rogress> HTML</pre> element displays an indicator showing the completion progress of a task, typically displayed as a progress bar.
<select></select>	The <select></select> HTML element represents a control that provides a menu of options:
≼textarea>	The <textarea> HTML element represents a multi-line plain-text editing control, useful when you want to allow users to enter a sizeable amount of free-form text, for example a comment on a review or feedback form.</td></tr></tbody></table></textarea>

Webform (2)

• 간단한 로그인 폼



- <input>
 - 사용자로부터 입력을 받기 위한 폼
 - 가장 많이 쓰이는 웹 폼임
 - 폼 요소; <u>link</u>

Webform (3)

- <input type="text">
 - <datalist> </datalist>
 - 데이터 목록을 가진 텍스트 입력 창



Webform (4)

- <input type="checkbox">
 - 체크박스 입력
 - Checked를 속성에 입력하면, 초기상태가 선택된 상태가 됨



Webform (5)

- 시간 정보 입력
 - <input type="month|week|date|time|datetime-local">

