Lab 02. HTML (2)

인터넷과웹기초



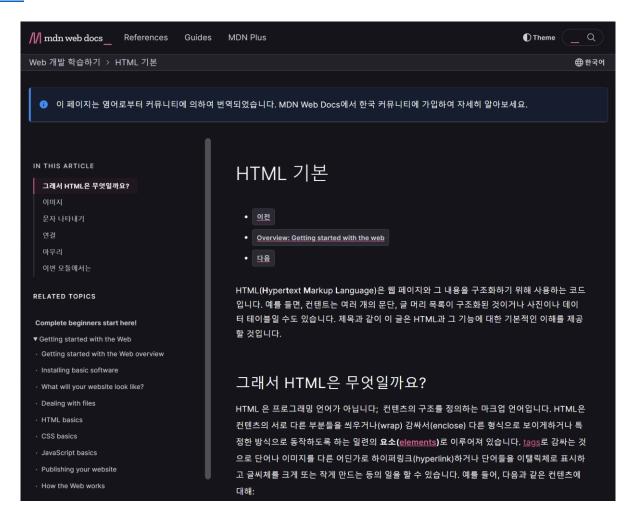


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- HTML DOM

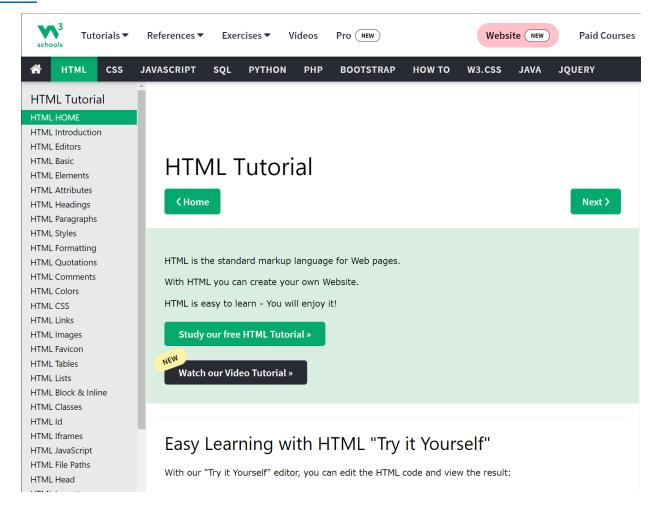
References

- MDN Web Docs
 - <u>link</u>



References

- W3schools
 - <u>link</u>



Multimedia





Images

-
 - The HTML tag is used to embed an image in a web page.
 - src : Specifies the path to the image
 - alt : Specifies an alternate text for the image
 - width: width of image in pixels
 - height: height of image in pixels

```
<br/>
<img src="이미지 파일의 URL" alt="문자열" width="이미지 폭" height="이미지 높이"> </body>
```



Audio

- <audio>
 - It is used to embed sound content in a document.
- Type of audio files
 - MP3 (.mp3)
 - OGG (.ogg, .oga)
 - WAV (.wav)

Audio Format and Browser Support

Browser	MP3	WAV	OGG
Edge / IE	YES	YES*	YES*
Chrome	YES	YES	YES
Firefox	YES	YES	YES
Safari	YES	YES	NO
Opera	YES	YES	YES

https://www.w3schools.com/tags/tag_audio.asp

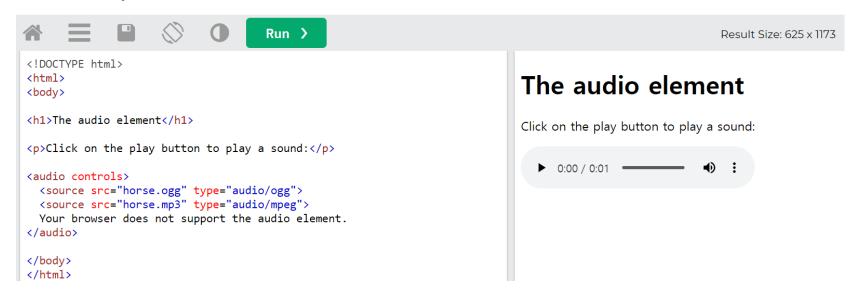
Audio

Attributes

Attribute	Value	Description
autoplay	autoplay	Specifies that the audio will start playing as soon as it is ready
controls	controls	Specifies that audio controls should be displayed (such as a play/pause button etc)
loop	Іоор	Specifies that the audio will start over again, eve ry time it is finished
muted	muted	Specifies that the audio output should be muted
preload	auto metadata none	Specifies if and how the author thinks the audio should be loaded when the page loads
src	URL	Specifies the URL of the audio file

Audio

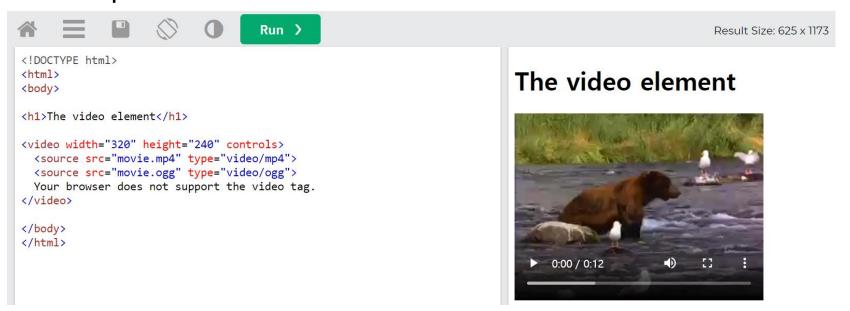
examples



Video

- <video>
 - It is used to embed video content in a document.

Examples



File Paths

File Paths

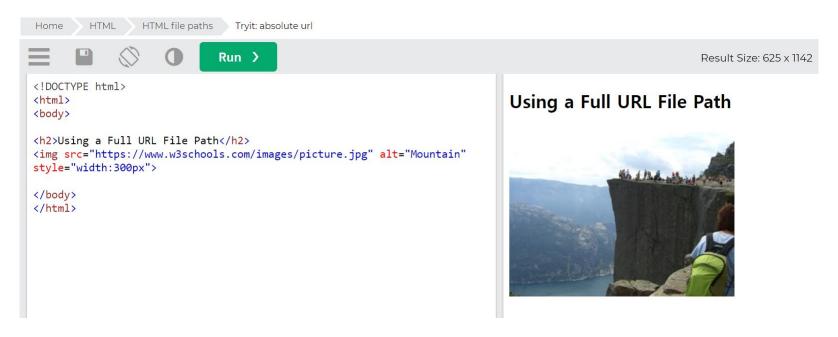
• A file path describes the location of a file in a web site's folder structure.

- File paths are used when linking to external files like:
 - Web pages
 - Images
 - Style sheets
 - JavaScript

Path	Description
	picture.jpg is located in the same folder as the current page
	picture.jpg is located in the images folder in the current folder
	picture.jpg is located in the images folder at the root of the current web
	picture.jpg is located in the folder one level up from the current folder

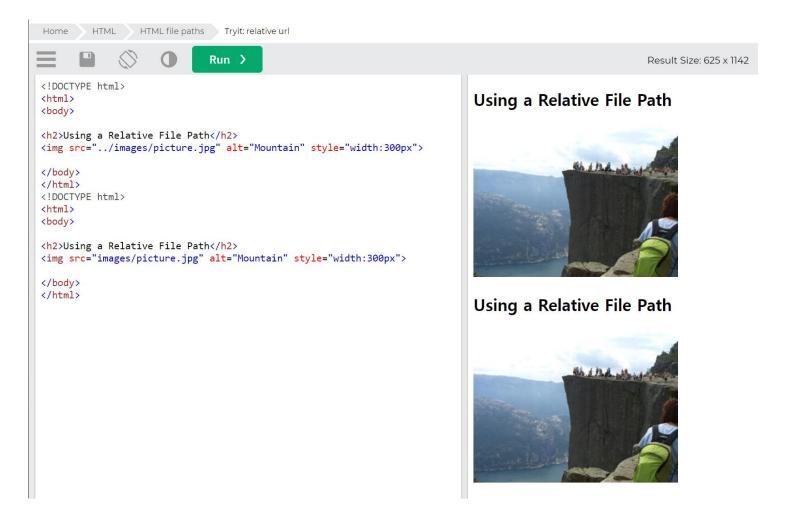
Absolute File Paths

• An absolute file path is the **full URL** to an internet file:



Relative File Paths

 A relative file path points to a file relative to the current page.



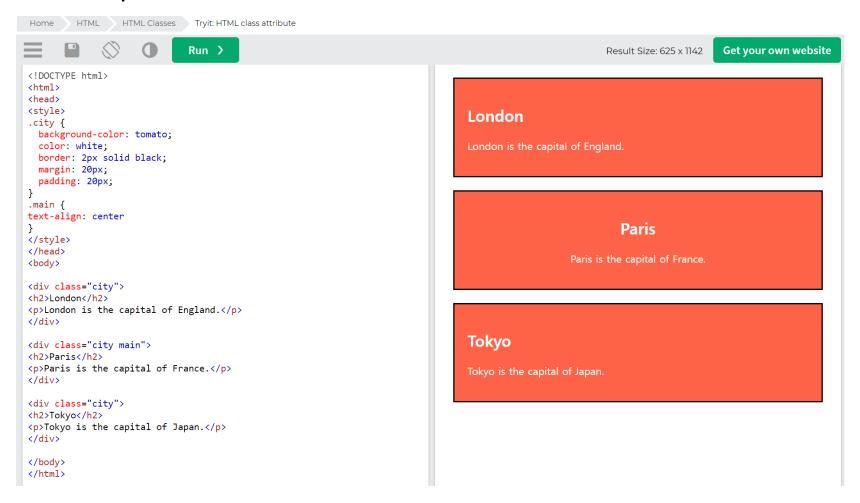
Class and ID

Class

- The HTML class attribute is used to specify a class for an HTML element.
 - To a class name in a style sheet
 - To access and manipulate elements with the specific class name
- HTML elements can belong to more than one class.
- Different HTML elements can point to the same class name.
- To create a Class
 - Write a period (.) character, followed by a class name.
 - Define the CSS properties within curly braces { }

Class

• Examples



ID

- The id attribute specifies a unique id for an HTML element.
 - To point to a specific style declaration
 - To access and manipulate the element with the specific id
- The value of the id attribute must be unique within the HTML document.

- The syntax for id is:
 - Write a hash character (#), followed by an id name
 - Define the CSS properties within curly braces { }

ID

• Examples



Links

Links

- The HTML <a> tag defines a hyperlink.
 - link text
- The most important attribute of the <a> element is the href attribute, which indicates the link's destination.
- The target attribute specifies where to open the linked document.
 - _self Default. opens the document in the same window/tab as it was clicked
 - _blank opens the document in a new window or tab
 - _parent opens the document in the parent frame
 - _top opens the document in the full body of the window

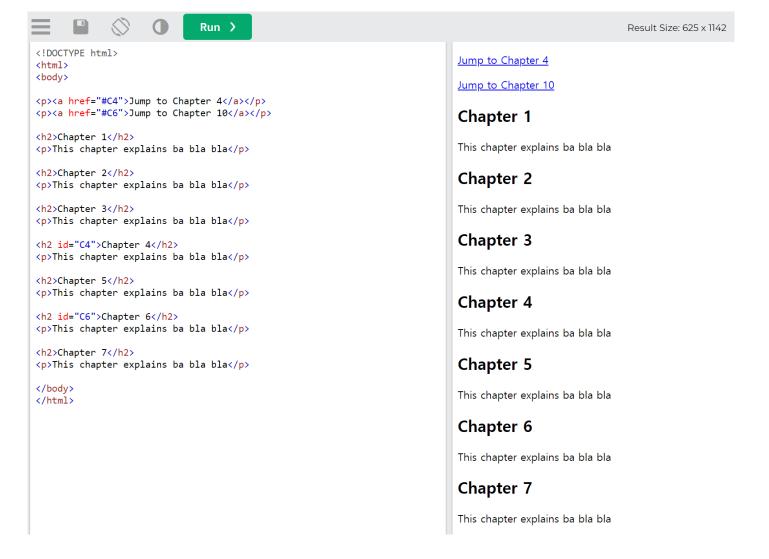
Defines a set of links.

- <nav>
 - The <nav> element defines a set of navigation links.



Bookmark

examples



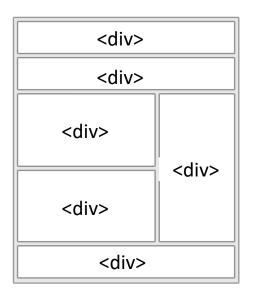
Semantic Elements



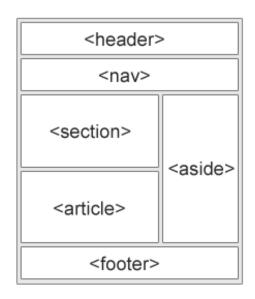


Semantic Elements

- Semantic elements
 - It describes its meaning to both the browser and the developer



VS.



- Advantages
 - For Search Engine Optimization
 - For Accessibility
 - For Maintainability

Semantic Elements

• Semantic Elements in HTML

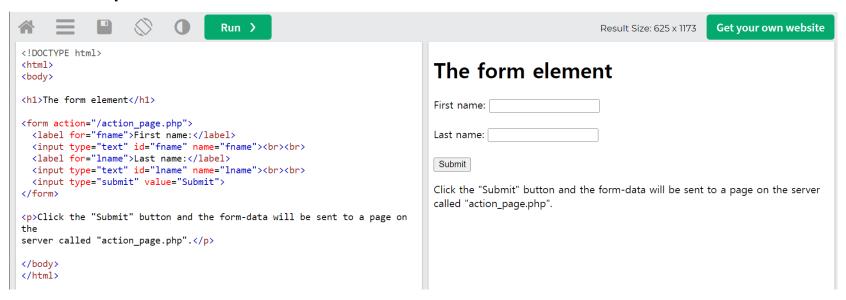
Tag	Description	
<article></article>	Defines independent, self-contained content	
<aside></aside>	Defines content aside from the page content	
<details></details>	Defines additional details that the user can view or hide	
<figcaption></figcaption>	Defines a caption for a <figure> element</figure>	
<figure></figure>	Specifies self-contained content, like illustrations, diagrams, photos, c ode listings, etc.	
<footer></footer>	Defines a footer for a document or section	
<header></header>	Specifies a header for a document or section	
<main></main>	Specifies the main content of a document	
<mark></mark>	Defines marked/highlighted text	
<nav></nav>	Defines navigation links	
<section></section>	Defines a section in a document	
<summary></summary>	Defines a visible heading for a <details> element</details>	
<time></time>	Defines a date/time	

Webform

Form

- <form>
 - It is used to create an HTML form for user input.

Examples



Form

Attributes

Attribute	Value	Description
accept-charset	character_set	Specifies the character encodings that are to be used for the form submission
action	URL	Specifies where to send the form-data when a form is sub mitted
<u>autocomplete</u>	on off	Specifies whether a form should have auto-complete on or off
enctype	application/x-www-form-urlencoded multipart/form-data text/plain	Specifies how the form-data should be encoded when sub mitting it to the server (only for method="post")
method	get post	Specifies the HTTP method to use when sending form-data
<u>name</u>	text	Specifies the name of a form
novalidate	novalidate	Specifies that the form should not be validated when submitted
rel	external help license next nofollow noopener noreferrer opener prev search	Specifies the relationship between a linked resource and the current document
target	_blank _self _parent _top	Specifies where to display the response that is received aft er submitting the form

Input

- <input>
 - It specifies an input field where the user can enter data.
 - <input> element is the most important form element.
 - Input types are as follows:

```
<input type="button">
<input type="checkbox">
<input type="color">
 <input type="date">
<input type="datetime-local">
• <input type="email">
• <input type="file">
<input type="hidden">
<input type="image">
<input type="month">
• <input type="number">
<input type="password">
<input type="radio">
<input type="range">
<input type="reset">
<input type="search">
<input type="submit">
• <input type="tel">
<input type="text"> (default value)
 <input type="time">
<input type="url">
• <input type="week">
```

Button

```
A push button that activates a JavaScript when it is clicked:

<input type="button" value="Click me" onclick="msg()">

Try it Yourself >>

https://www.w3schools.com/tags/att_input_type.asp
```

Checkbox

Checkboxes let a user select one or more options of a limited number of choices:

```
<input type="checkbox" id="vehicle1" name="vehicle1" value="Bike">
  <label for="vehicle1"> I have a bike</label><br>
  <input type="checkbox" id="vehicle2" name="vehicle2" value="Car">
  <label for="vehicle2"> I have a car</label><br>
  <input type="checkbox" id="vehicle3" name="vehicle3" value="Boat">
  <label for="vehicle3"> I have a boat</label><br>
```

Try it Yourself »

https://www.w3schools.com/tags/att_input_type.asp

• Submit

```
Define a submit button:

<input type="submit">

Try it Yourself >>

https://www.w3schools.com/tags/att_input_type.asp
```

Reset

Email

Define a field for an e-mail address (will be automatically validated when submitted):

```
<label for="email">Enter your email:</label>
<input type="email" id="email" name="email">
```

Try it Yourself »

https://www.w3schools.com/tags/att_input_type.asp

• File

Define a file-select field and a "Browse..." button (for file uploads):

```
<label for="myfile">Select a file:</label>
<input type="file" id="myfile" name="myfile">
```

Try it Yourself »

https://www.w3schools.com/tags/att_input_type.asp

Password

Radio

Radio buttons let a user select only one of a limited number of choices:

Try it Yourself »

Date

Time