

HTML

Front-End 개발 실무



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- ✓ 실습

HTML 개요

➤ 웹 표준

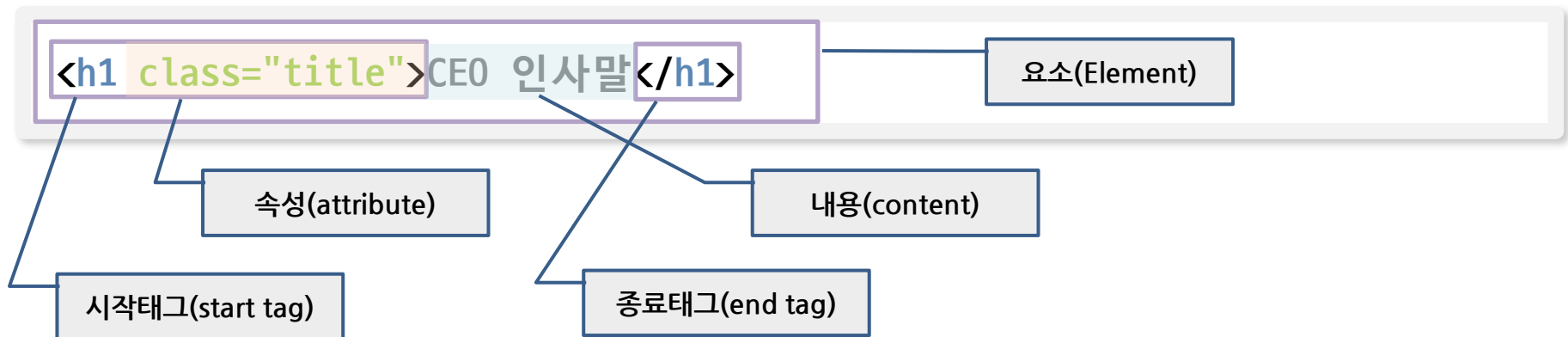
➤ HTML 기본 구조



➤ HTML

- Hyper Text Markup Language

➤ HTML 요소(Element)



- 빈요소(Empty Element) : 종료태그가 없는 요소(`
`, `<input>` 등)

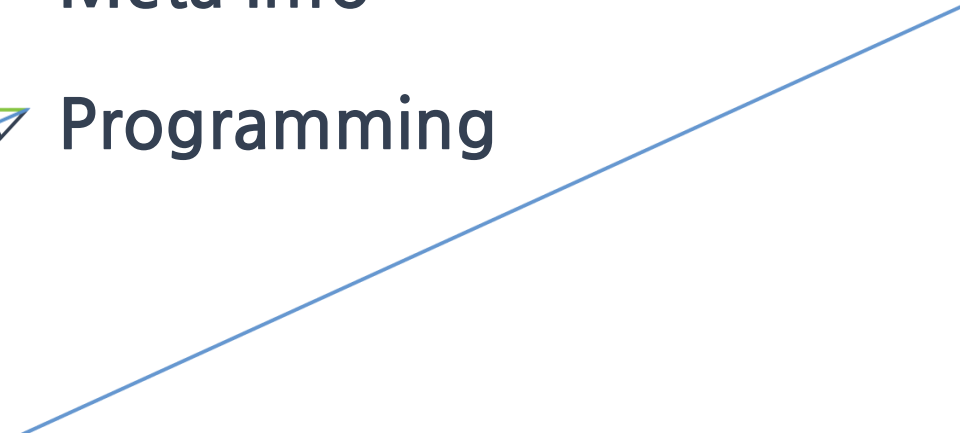
➤ HTML 속성(Attribute)

- HTML 요소에 추가적인 정보를 제공
- 시작태그에 사용
- 속성명(name), 속성값(value)으로 표현


➤ HTML 문서(document)

```
<!DOCTYPE html>
<html>
  <head>
    <title>디노웍스</title>
  </head>
  <body>
    <h1>CEO 인사말<h1>
    <p>안녕하세요? 디노웍스 대표 이시영입니다.</p>
  </body>
</html>
```

HTML 태그 및 속성

- 소개
 - Basic HTML
 - Formatting
 - Forms and Input
 - Frames
 - Images
 - Audio / Video
 - Links
 - Lists
 - Tables
 - Styles and Semantics
 - Meta Info
 - Programming
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➤ HTML 태그


- HTML5 표준에서 삭제된 태그는 제외
- HTML5에서 새롭게 추가된 내용은  표시
- 태그별 의미(description)는 영문 그대로 표시

➤ HTML 속성




- HTML5 표준에서 삭제된 속성은 제외
- HTML5에서 새롭게 추가된 내용은 [5] 표시
- 필수로 작성해야 하는 속성은 [R] 표시 (Required)
- Global Attributes는 GA로 표시
 - accesskey, class, contenteditable[5], contextmenu[5], data-*[5], dir, draggable[5], dropzone[5], hidden[5], id, lang, spellcheck[5], style, tabindex, title, translate[5]
- Event Attributes는 EA로 표시
 - 참고 : https://www.w3schools.com/tags/ref_byfunc.asp

Tag	Description	Attributes
<code><!DOCTYPE></code>	Defines the document type	
<code><html></code>	Defines an HTML document	xmlns, GA
<code><title></code>	Defines a title for the document	GA
<code><body></code>	Defines the document's body	GA, EA
<code><h1> to <h6></code>	Defines HTML headings	GA, EA
<code><p></code>	Defines a paragraph	GA, EA
<code>
</code>	Inserts a single line break	GA, EA
<code><hr></code>	Defines a thematic change in the content	GA, EA
<code><!--...--></code>	Defines a comment	




Formatting

Tag	Description	Attributes
<code><abbr></code>	Defines an abbreviation or an acronym	GA, EA
<code><address></code>	Defines contact information for the author/owner of a document/article	GA, EA
<code></code>	Defines bold text	GA, EA
<code><bdi></code>	 Isolates a part of text that might be formatted in a different direction from other text outside it	GA, EA
<code><bdo></code>	Overrides the current text direction	dir[R], GA, EA
<code><blockquote></code>	Defines a section that is quoted from another source	cite, GA, EA
<code><cite></code>	Defines the title of a work	GA, EA
<code><code></code>	Defines a piece of computer code	GA, EA
<code></code>	Defines text that has been deleted from a document	cite, datetime, GA, EA
<code><dfn></code>	Represents the defining instance of a term	GA, EA


Formatting

Tag		Description	Attributes
<code></code>		Defines emphasized text	GA, EA
<code><i></code>		Defines a part of text in an alternate voice or mood	GA, EA
<code><ins></code>		Defines a text that has been inserted into a document	cite, datetime, GA, EA
<code><kbd></code>		Defines keyboard input	GA, EA
<code><mark></code>		Defines marked/highlighted text	GA, EA
<code><meter></code>		Defines a scalar measurement within a known range (a gauge)	form, high, low, max, min, optimum, value[R], GA, EA
<code><pre></code>		Defines preformatted text	GA, EA
<code><progress></code>		Represents the progress of a task	max, value, GA, EA
<code><q></code>		Defines a short quotation	cite, GA, EA
<code><rp></code>		Defines what to show in browsers that do not support ruby annotations	GA, EA

Formatting

Tag		Description	Attributes
<code><rt></code>		Defines an explanation/pronunciation of characters (for East Asian typography)	GA, EA ㄱㅁ 漢
<code><ruby></code>		Defines a ruby annotation (for East Asian typography)	GA, EA
<code><s></code>		Defines text that is no longer correct	GA, EA
<code><samp></code>		Defines sample output from a computer program	GA, EA
<code><small></code>		Defines smaller text (and other side comments)	GA, EA
<code></code>		Defines important text	GA, EA
<code><sub></code>		Defines subscripted text	GA, EA
<code><sup></code>		Defines superscripted text	GA, EA
<code><time></code>		Defines a date/time	datetime, GA, EA
<code><u></code>		Defines text that should be stylistically different from normal text	GA, EA




Formatting

Tag	Description	Attributes
<code><var></code>	Defines a variable	GA, EA
<code><wbr></code> 	Defines a possible line-break	GA, EA

Forms and Input

Tag	Description	Attributes
<form>	Defines an HTML form for user input	accept-charset, action, autocomplete[5], enctype, method, name, novalidate[5], target, GA, EA
<input>	Defines an input control	accept, alt, autocomplete[5], autofocus[5], checked, dirname[5], disabled, form[5], formaction[5], formenctype[5], formmethod[5], formnovalidate[5], formtarget[5], height[5], list[5], max[5], maxlength, min[5], multiple[5], name, pattern[5], placeholder[5], readonly, required[5], size, src, step[5], type, value, width[5], GA, EA
<textarea>	Defines a multiline input control (text area)	autofocus[5], cols, dirname[5], disabled, form[5], maxlength[5], name, placeholder[5], readonly, required[5], rows, wrap[5], GA, EA
<button>	Defines a clickable button	autofocus[5], disabled, form[5], formaction[5], formenctype[5], formmethod[5], formnovalidate[5], formtarget[5], name, type, value, GA, EA
<select>	Defines a drop-down list	autofocus[5], disabled, form[5], multiple, name, required[5], size, GA, EA
<optgroup>	Defines a group of related options in a drop-down list	disabled, label, GA, EA
<option>	Defines an option in a drop-down list	disabled, label, selected, value, GA, EA
<label>	Defines a label for an <input> element	for, form[5], GA, EA





Forms and Input





Tag	Description	Attributes
<fieldset>	Groups related elements in a form	disabled[5], form[5], name[5], GA, EA
<legend>	Defines a caption for a <fieldset> element	GA, EA
<datalist> 	Specifies a list of pre-defined options for input controls	GA, EA
<keygen> 	Defines a key-pair generator field (for forms)	autofocus, challenge, disabled, form, keytype, name, GA, EA
<output> 	Defines the result of a calculation	for, form, name, GA, EA


Frames

Tag	Description	Attributes
<code><iframe></code>	Defines an inline frame	height, name, sandbox[5], src, srcdoc[5], width GA, EA


Images

Tag	Description	Attributes
	Defines an image	alt, crossorigin[5], height, ismap, longdesc, sizes, src, srcset, usemap, width, GA, EA
<map>	Defines a client-side image-map	name, GA, EA
<area>	Defines an area inside an image-map	alt, coords, download[5], href, hreflang[5], media[5], rel, shape, target, type[5], GA, EA
<canvas> 	Used to draw graphics, on the fly, via scripting (usually JavaScript)	height, width, GA, EA
<figcaption> 	Defines a caption for a <figure> element	GA, EA
<figure> 	Specifies self-contained content	GA, EA
<picture> 	Defines a container for multiple image resources	GA, EA

Tag		Description	Attributes
<audio>		Defines sound content	autoplay, controls, loop, muted, preload, src, GA, EA
<source>		Defines multiple media resources for media elements (<video>, <audio> and <picture>)	src, srcset, media, sizes, type, GA, EA
<track>		Defines text tracks for media elements (<video> and <audio>)	default, kind, label, src, srclang, GA, EA
<video>		Defines a video or movie	autoplay, controls, height, loop, muted, poster, preload, src, width, GA, EA

Tag	Description	Attributes
<a>	Defines a hyperlink	download[5], href, hreflang, media[5], rel, target, type, GA, EA
<link>	Defines the relationship between a document and an external resource (most used to link to style sheets)	crossorigin[5], href, hreflang, media, rel, sizes[5], target, type, GA, EA
<nav> 	Defines navigation links	GA, EA








Lists

Tag	Description	Attributes
<code></code>	Defines an unordered list	GA, EA
<code></code>	Defines an ordered list	reversed[5], start, type, GA, EA
<code></code>	Defines a list item	value, GA, EA
<code><dl></code>	Defines a description list	GA, EA
<code><dt></code>	Defines a term/name in a description list	GA, EA
<code><dd></code>	Defines a description of a term/name in a description list	GA, EA
<code><menu></code>	Defines a list/menu of commands	label, type, GA, EA
<code><menuitem></code> 	Defines a command/menu item that the user can invoke from a popup menu	checked, command, default, disabled, icon, label[R], radiogroup, type, GA, EA




Tables

Tag	Description	Attributes
<table>	Defines a table	sortable, GA, EA
<caption>	Defines a table caption	GA, EA
<th>	Defines a header cell in a table	abbr, colspan, headers, rowspan, scope, sorted, GA, EA
<tr>	Defines a row in a table	GA, EA
<td>	Defines a cell in a table	colspan, headers, rowspan, GA, EA
<thead>	Groups the header content in a table	GA, EA
<tbody>	Groups the body content in a table	GA, EA
<tfoot>	Groups the footer content in a table	GA, EA
<col>	Specifies column properties for each column within a <colgroup> element	span, GA, EA
<colgroup>	Specifies a group of one or more columns in a table for formatting	span, GA, EA

Style and Semantics


Tag		Description	Attributes
<style>		Defines style information for a document	media, scoped[5], type, GA, EA
<div>		Defines a section in a document	GA, EA
		Defines a section in a document	GA, EA
<header>		Defines a header for a document or section	GA, EA
<footer>		Defines a footer for a document or section	GA, EA
<main>		Specifies the main content of a document	GA, EA
<section>		Defines a section in a document	GA, EA
<article>		Defines an article	GA, EA
<aside>		Defines content aside from the page content	GA, EA
<details>		Defines additional details that the user can view or hide	open[5], GA, EA

Style and Semantics

Tag		Description	Attributes
<dialog>		Defines a dialog box or window	open, GA, EA
<summary>		Defines a visible heading for a <details> element	GA, EA
<data>		Links the given content with a machine-readable translation	value, GA, EA

Meta Info

Tag	Description	Attributes
<head>	Defines information about the document	GA
<meta>	Defines metadata about an HTML document	charset[5], content, http-equiv, name, GA
<base>	Specifies the base URL/target for all relative URLs in a document	href, target, GA

Tag	Description	Attributes
<script>	Defines a client-side script	async[5], charset, defer, src, type, GA
<noscript>	Defines an alternate content for users that do not support client-side scripts	GA
<embed> 	Defines a container for an external (non-HTML) application	height, src, type, width, GA, EA
<object>	Defines an embedded object	data, form[5], height, name, type, usemap, width, GA, EA
<param>	Defines a parameter for an object	name, value, GA, EA

HTML Style Guide

➤ 배경

➤ 공통사항

➤ HTML

※ 참고 : <https://google.github.io/styleguide/htmlcssguide.html>

- HTML, CSS 작성을 위한 코딩 스타일 가이드 정의
- 스타일 가이드 적용 이유
 - 협업시 효율 증가
 - 코드 품질 향상
 - 기술지원 용이

➤ 공통 스타일 규칙

- Protocol : 되도록 https 사용, 불가시 생략

```
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.1.0/jquery.min.js"></script>  
@import 'https://fonts.googleapis.com/css?family=Open+Sans';  
<script src="//ajax.googleapis.com/ajax/libs/jquery/3.1.0/jquery.min.js"></script>
```

➤ 공통 코딩 규칙

- 들여쓰기 : space 2칸 (tab, tab + space 혼용 금지)
- 소문자만 사용 (text/CDATA, 문자열만 예외)
- 문장 뒷 부분의 공백(trailing white space) 제거

➤ 공통 메타 규칙

- 인코딩 : UTF-8 (no BOM)
- 필요한 곳에는 주석으로 설명

➤ HTML 스타일 규칙

- 문서타입 : HTML5 사용. (<!DOCTYPE html>)
- 유효성 검사 : <https://validator.w3.org/nu/>
- 목적에 맞는 HTML 사용
- 이미지, 영상, 애니메이션 요소 등에 대한 대체 콘텐츠 제공 (접근성)
- 표현(CSS), 동작(JavaScript)과 분리하여 **의미/구조**에 집중
- entity reference 사용 금지
 - HTML에서 특별한 의미를 가지는 요소는 제외 : >(>), <(<), &(&)
- style sheet, script의 type 속성 생략
- 모든 블록, 목록, 표 및 그 자식요소에 줄바꿈 및 들여쓰기 적용
- 쌍따옴표 사용("")
- 빈 요소도 닫음 : <meta charset="utf-8" />
- 이미지 요소는 이미지 폭, 높이(style 속성 사용) 명시

➤ HTML 스타일 규칙

- 속성 줄여쓰기 금지
- 불필요한 공백, 줄바꿈 사용 금지
- 한 줄에는 되도록 80글자 이내로 사용
- Viewport 설정

```
<meta name="viewport" content="width=device-width, initial-scale=1.0" /> <!-- 반응형웹, 모바일용 -->
<meta name="viewport" content="width=1100" /> <!-- PC용 -->
```

- 주석 사용법 (한줄 주석, 여러줄 주석)

```
<!-- This is a comment -->
<!--
  This is a long comment example. This is a long comment example.
  This is a long comment example. This is a long comment example.
-->
```