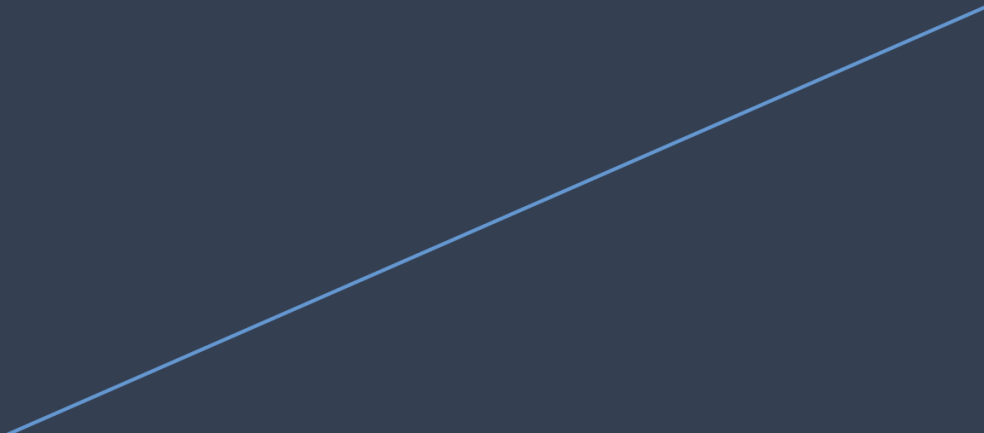


HTML

Front-End 개발자 양성 과정



목 차

- ✓ HTML 개요
 - ✓ HTML 태그 및 속성
 - ✓ HTML/CSS Style Guide
- 

HTML 개요

➤ 웹 표준

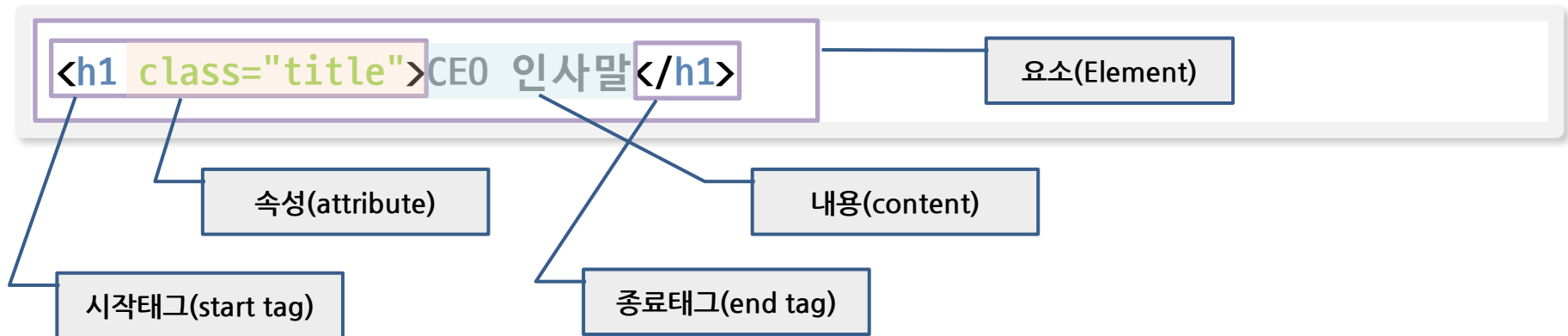
➤ HTML 기본 구조



➤ 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

➤ 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 |
|---|-------------------------------|------------|
| <var> | Defines a variable | GA, EA |
| <wbr>  | 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 |

Links

| 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

- 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.  
-->
```