

Creating Websites Using HTML

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What Is The Websites?



The Organization of a Website



Hypertext Markup Language (HTML)



Hypertext Markup Language (HTML)

The standard markup language for creating web pages and web applications. With Cascading Style Sheets (CSS) and JavaScript, it forms a triad of cornerstone technologies for the World Wide Web.

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Google Home Without CSS

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Say "Ok Google" to start a voice search.

Search without lifting a finger. When you say "Ok Google," Chrome will search for what you say next.

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HTML Editor



Visual Studio



Bracket

HTML5 Basic Terms

Elements

A graphical overview of the HTML markup syntax shown so far is presented here:

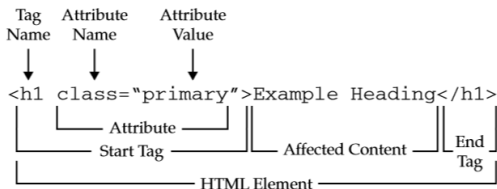


Figure: Breakdown of an HTML Tag

Annotation

- `<!-- comments -->`

HTML5 Structure

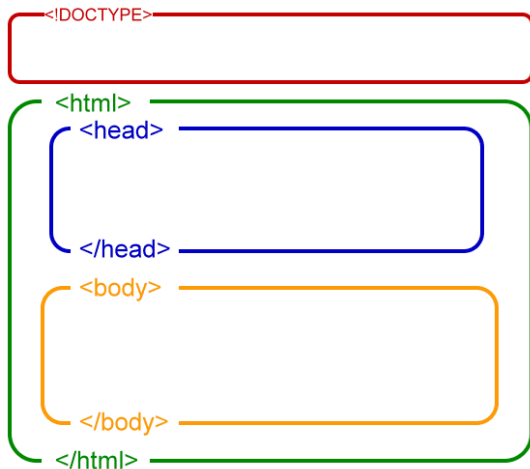


Figure: HTML5 Structure

Before writing the html document, `<!DOCTYPE html>` must be marked.

- The `<!DOCTYPE html>` tag makes the web browser recognize that the web page is an HTML5 document.

HTML5 - Head

Tag	Description
meta	Sending additional information to the web page
title	Title of a webpage
script	Adding scripts to a webpage
link	Adding another file to a webpage
style	Adding a style sheet to a webpage
base	Specifying the default route for a webpage

Table: Tags in head

Tag - Title

Example

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4    <title>My Homepage </title>
5  </head>
6  <body>
7    <h1>Lorem ipsum</h1>
8    <p> Lorem ipsum dolor sit amet, consectetur adipiscing elit.</p>
9  </body>
10 </html>
```

My Homepage



파일 | file:///C:/Users/Sion/Dropbox/sion/present/HTML/example.h

Lorem ipsum

Lorem ipsum dolor sit amet, consectetur adipiscing elit.

Header Tags

Tag	Description
h1	First-largest header tag
h2	Second-largest header tag
h3	Third-largest header tag
h4	Fourth-largest header tag
h5	Fiveth-largest header tag
h6	Sixth-largest header tag

Table: Header tags

Header Tags - Example

Example

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Tag - headings</title>
5 </head>
6 <body>
7 <h1>heading1</h1>
8 <h2>heading2</h2>
9 <h3>heading3</h3>
10 <h4>heading4</h4>
11 <h5>heading5</h5>
12 <h6>heading6</h6>
13 </body>
14 </html>
```



heading1

heading2

heading3

heading4

heading5

heading6

Body Tags

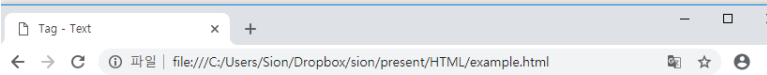
Tag	Description
p	Paragraph tag
hr	Horizontal line tag
br	line break tag

Table: Body tags

Body Tags - Example

Example

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Tag - Text</title>
5 </head>
6 <body>
7   <h1>Lorem ipsum</h1>
8   <hr />
9   <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit, </p>
10  <br />
11  <p>sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.
12    Ut enim ad minim veniam, quis nostrud exercitation ullamco
13    laboris nisi ut aliquip ex ea commodo consequat. </p>
14
15 </body>
16 </html>
```



Lorem ipsum

Lorem ipsum dolor sit amet, consectetur adipiscing elit,

sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.

Anchor Tag

Tag	Description
a	Anchor tag

Table: Anchor tag

- An anchor tag is a tag used to move between different webpages or to a specific location within a webpage.

Anchor tag - Example

Example

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Tag - Anchor</title>
5 </head>
6 <body>
7 <h1><a href='https://portal.uos.ac.kr/user/login.face'>UOS portal system</a></h1>
8 <h1><a href='https://github.com'>Github</a></h1>
9 <h1><a href='#'>Empty link</a></h1>
10 </body>
11 </html>
```

Tag - Anchor

x

+

← → ↻ ⓘ 파일 | file:///C:/Users/Sion/Dropbox/sion/present/HTML/example.html

[UOS portal system](https://portal.uos.ac.kr/user/login.face)

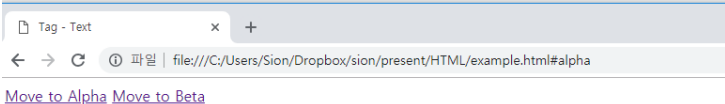
[Github](https://github.com)

[Empty link](#)

Anchor tag - Internal Movement

Example

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title>Tag - Text</title>
5 </head>
6 <body>
7   <a href= '#alpha'>Move to Alpha</a>
8   <a href= '#Beta'>Move to Beta</a>
9   <h1 id = 'alpha'>Alpha</h1>
10  <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit.</p>
11  <h1 id = 'Beta'>Beta</h1>
12  <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit.</p>
13 </body>
14 </html>
```



Alpha

Lorem ipsum dolor sit amet, consectetur adipiscing elit.

Beta

Lorem ipsum dolor sit amet, consectetur adipiscing elit.

List Tags

Tag	Description
ul	Unordered list tag
ol	Ordered list tag
li	List element

Table: List tag

List Tags - Example

Example

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Tag - List</title>
5 </head>
6 <body>
7     <h4>ol tag</h4>
8     <ol>
9         <li>Facebook</li>
10        <li>Tweeter</li>
11        <li>Linked In</li>
12    </ol>
13    <h4>ul tag</h4>
14    <ul>
15        <li>Facebook</li>
16        <li>Tweeter</li>
17        <li>Linked In</li>
18    </ul>
19 </body>
20 </html>
```

ol tag

1. Facebook
2. Tweeter
3. Linked In

ul tag

- Facebook
- Tweeter
- Linked In

Table Tags

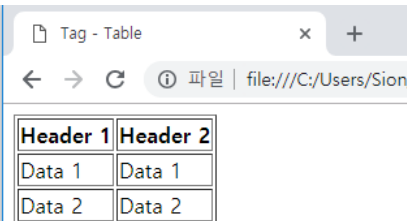
Tag	Description
tr	Row tags inside a table
th	Header tags inside rows
td	General cell tags inside rows

Table: Table tag

Table Tags -Example

Example

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Tag - Table</title>
5 </head>
6 <body>
7 <table border= '1'>
8 <tr>
9 <th>Header 1</th>
10 <th>Header 2</th>
11 </tr>
12 <tr>
13 <td>Data 1</td>
14 <td>Data 1</td>
15 </tr>
16 <tr>
17 <td>Data 2</td>
18 <td>Data 2</td>
19 </tr>
20 </table>
21 </body>
22 </html>
```



The screenshot shows a web browser window with the title 'Tag - Table'. The address bar displays the file path 'file:///C:/Users/Sion...'. The rendered table is displayed below the browser interface.

Header 1	Header 2
Data 1	Data 1
Data 2	Data 2

Table Tags - Attributes

Attributes	Description
border	Table border thickness
rowspan	cell height
colspan	cell width

Table: Attributes in table tag

Table tags - Attributes

Example

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4    <title>Tag - Table</title>
5  </head>
6  <body>
7    <table border= '1'>
8      <tr>
9        <th colspan = '3'>Table Data</th>
10       <th rowspan = '3'>Table Data</th>
11     </tr>
12     <tr>
13       <td>Table Data</td>
14       <td rowspan = '2'>Table Data</td>
15       <td>Table Data</td>
16     </tr>
17     <tr>
18       <td>Table Data</td>
19       <td>Table Data</td>
20     </tr>
21   </table>
22 </body>
23 </html>
```

Table Data			Table Data
Table Data	Table Data	Table Data	
Table Data		Table Data	

Image Tag

Tag	Description
img	Image tag

Table: Image tag

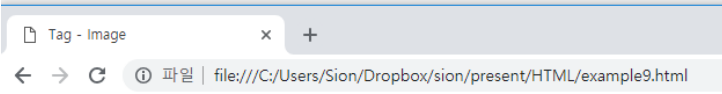
Attribute	Description
src	Image path
alt	Text that appear when there is no image
width	Image width
height	Image height

Table: Attributes in image tag

Image Tag - Example

Example

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title>Tag - Image</title>
5 </head>
6 <body>
7   <img src = 'http://placeholder.it/200x200' alt = 'placeholder' width = '200' />
8   <img src = 'Nothing' alt = 'No picture' width = '200' />
9 </body>
10 </html>
```

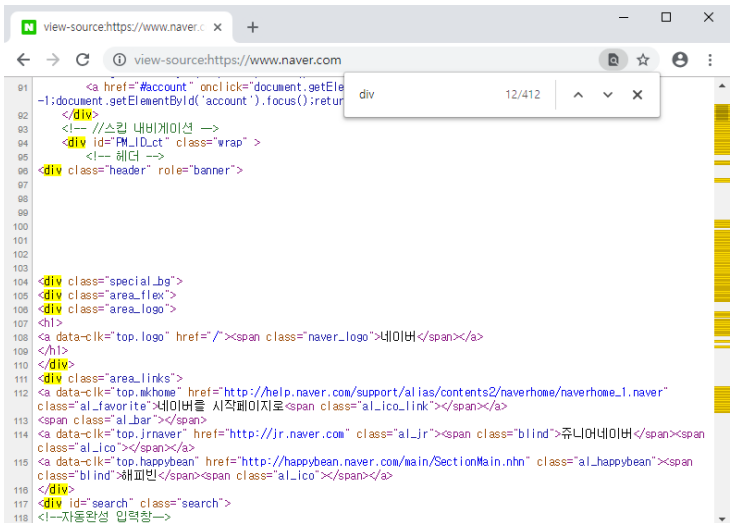


Space Division Tag

Tag	Description
div	Split space into blocks
span	Split space into inlines

Table: space division tag

Space Division Tag - Naver Home Source



```
91      <a href="#account" onclick="document.getEle
92  -1;document.getElementById('account').focus();return
93  </div>
94  <!-- //스킵 내비게이션 -->
95  <div id="PM_ID.ct" class="wrap" >
96  <!-- 헤더 -->
97  <div class="header" role="banner">
98
99
100
101
102
103
104  <div class="special_bg">
105  <div class="area_flex">
106  <div class="area_logo">
107  <h1>
108  <a data-clk="top.logo" href="/"><span class="naver_logo">네이버</span></a>
109  </h1>
110  </div>
111  <div class="area_links">
112  <a data-clk="top.mkhome" href="http://help.naver.com/support/alias/contents2/naverhome/naverhome_1.naver"
113  class="al_favorite">네이버를 시작페이지로<span class="al_ico.link"></span></a>
114  <span class="al_bar"></span>
115  <a data-clk="top.jrnaver" href="http://jr.naver.com" class="al_jr"><span class="blind">주니어네이버</span><span
116  class="al_ico"></span></a>
117  <a data-clk="top.happybean" href="http://happybean.naver.com/main/SectionMain.nhn" class="al_happybean"><span
118  class="blind">해피빈</span><span class="al_ico"></span></a>
119  </div>
120  <div id="search" class="search">
121  <!--자동완성 입력창-->
```

Space Division Tag - Example

Example

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4    <title>Tag - Space Division</title>
5  </head>
6  <body>
7    <div>Lorem ipsum</div>
8    <div>Lorem ipsum</div>
9    <div>Lorem ipsum</div>
10   <span>Lorem ipsum</span>
11   <span>Lorem ipsum</span>
12   <span>Lorem ipsum</span>
13 </body>
14 </html>
```

Lorem ipsum
Lorem ipsum
Lorem ipsum
Lorem ipsum Lorem ipsum Lorem ipsum

Summary

- HTML forms contents and structural parts of a web page.
- We can make a simple website using HTML tags.
- With CSS and JS, HTML can create powerful web pages.

- 모던 웹 디자인을 위한 HTML5+ CSS3 입문, 윤인성, 한빛미디어.

Thank You