실전 프로젝트1

14
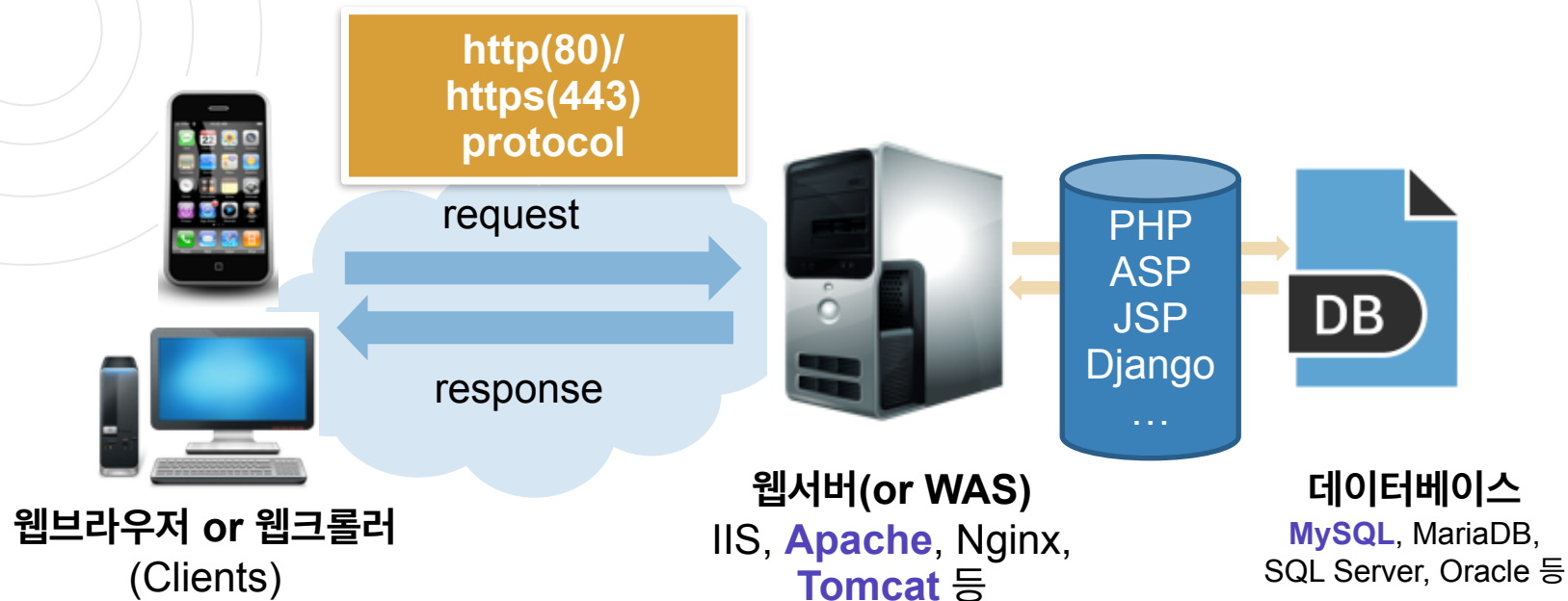
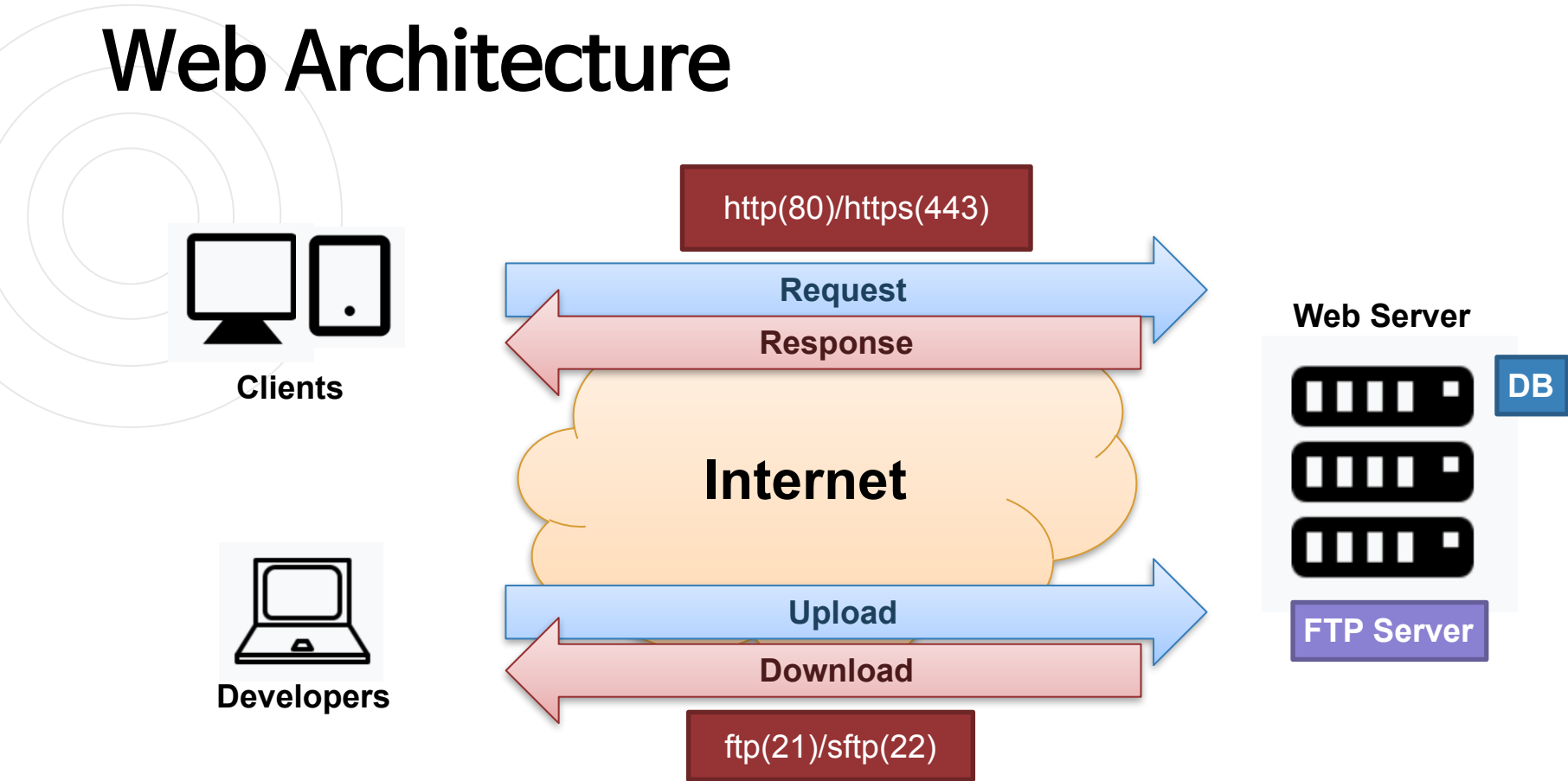# Web Architecture HTML & CSS

공지

- 9주차 공지
  - 수업 전 LMS 동영상 시청 필수!
    - **각 동영상 별로 시청마감 기한 준수!!**
  - 금요일 수업 시작 시 퀴즈
  - **Hisnet 온라인 출석부 각자 체크** : 수강과목 선택 〉 강의정보 〉 강의출석현황 메뉴에서 확인

- 퀴즈 안내
  - 일시 : 10월 29일(금) 수업시작시 (1,2분반 오전 9시, 3분반 오후 4시)
  - 오픈북으로 20분간 시행, **지각 금지!!**
  - 범위 : 1~8주간 진행된 수업 내용
  - 출제 형식 : OX, 객관식, 단답형 문제

Web Server & Client (http/https)

http(80)/
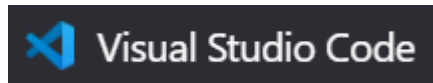https(443)
protocol

request

response

웹브라우저 **or 웹크롤러**
(Clients)

웹서버**(or WAS)**
IIS, **Apache**, Nginx,
Tomcat 등

PHP
ASP
JSP
Django
…

DB

데이터베이스
MySQL, MariaDB,
SQL Server, Oracle 등

Front-end(html, css, javascript), Back-end, Full-stack

Web Architecture

Clients

Developers

http(80)/https(443)

Request

Response

Internet

Web Server

DB

Upload

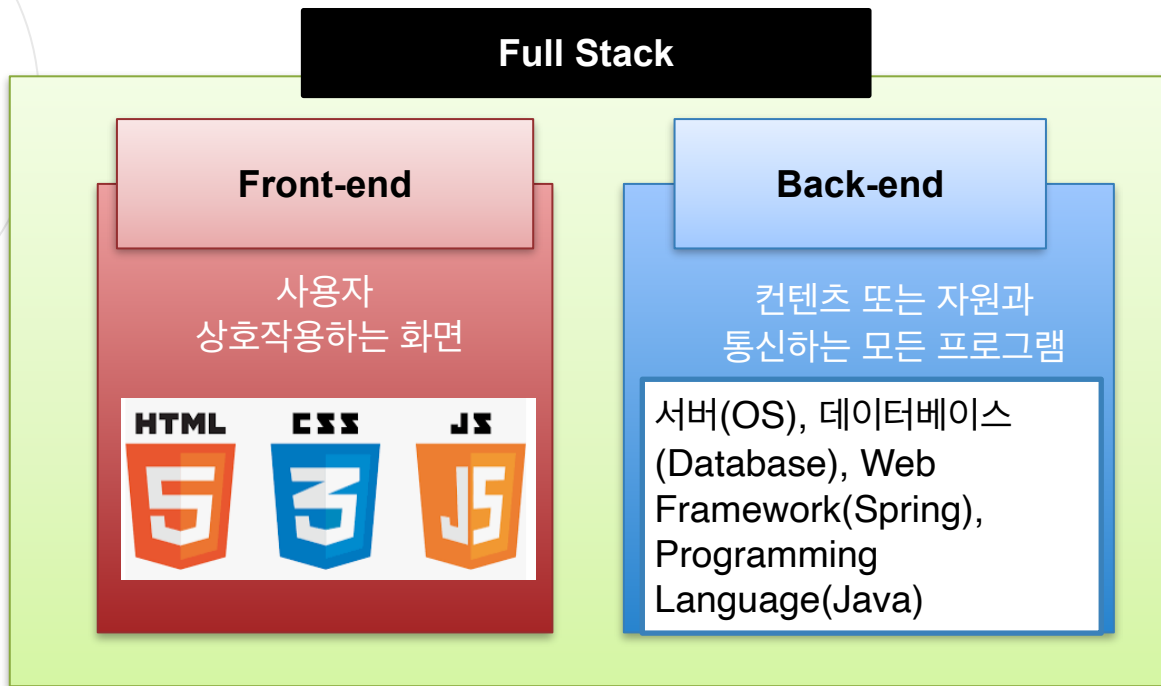Download

FTP Server

ftp(21)/sftp(22)

개발환경 설정(front-end)

- ○ **웹 호스팅 신청**
  - ○ 웹 서비스가 가능한 서버(도메인 주소)
  - ○ Back-end 개발에 따른 서버 환경 필요
  - ○ APM(Apache + PHP + MySQL) 환경
  - ○ dothome.co.kr , cafe24, 직접 서버 세팅
- ○ **ftp client 설치**
  - ○ 파일이나 이미지를 서버로 업로드/다운로드
  - ○ Filezilla 등
- ○ **개발 Editor 설치**
  - ○ Vscode, Atom, editplus 등
  - ○ HTML Snippets extension
  - ○ Sftp extension 설치
  - ○ 웹서버 연결 및 파일 업로드

Web development

Full Stack

Front-end

사용자
상호작용하는 화면

HTML **CSS** **JS**

Back-end

컨텐츠 또는 자원과
통신하는 모든 프로그램

서버(OS), 데이터베이스
(Database), Web
Framework(Spring),
Programming
Language(Java)

Server, DB

- **HTML**(**H**yper **T**ext **M**arkup **L**anguage)
- **CSS**(**C**ascading **S**tyle **S**heets)
- **JS**(**J**ava**S**cript)

Web development : Front-end

Welcome to My Homepage
Use the menu to select different Stylesheets

Stylesheet 1
Stylesheet 2
Stylesheet 3
Stylesheet 4
No Stylesheet

Same Page Different Stylesheets

This is a demonstration of how different stylesheets can change the layout of your HTML page. You can change the layout of this page by selecting different stylesheets in the menu, or by selecting one of the following links:
Stylesheet1, Stylesheet2, Stylesheet3, Stylesheet4.

No Styles

This page uses DIV elements to group different sections of the HTML page. Click here to see how the page looks like with no stylesheet:
No Stylesheet.

Side-Bar

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컨텐츠 작성

⬇

HTML : 구조적인 문서

⬇

각 영역에 컨텐츠 배치

⬇

CSS : 스타일

⬇

Javascript : 동적 페이지 구성

⬇

웹페이지 완성

8

https://www.w3schools.com/css/demo_default.htm

step1

컨텐츠 작성

Welcome to My Homepage
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No Stylesheet
Same Page Different Stylesheets
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https://www.w3schools.com/css/demo_default.htm

step2

Welcome to My Homepage
Use the menu to select different Stylesheets

Stylesheet 1
Stylesheet 2
Stylesheet 3
Stylesheet 4
No Stylesheet

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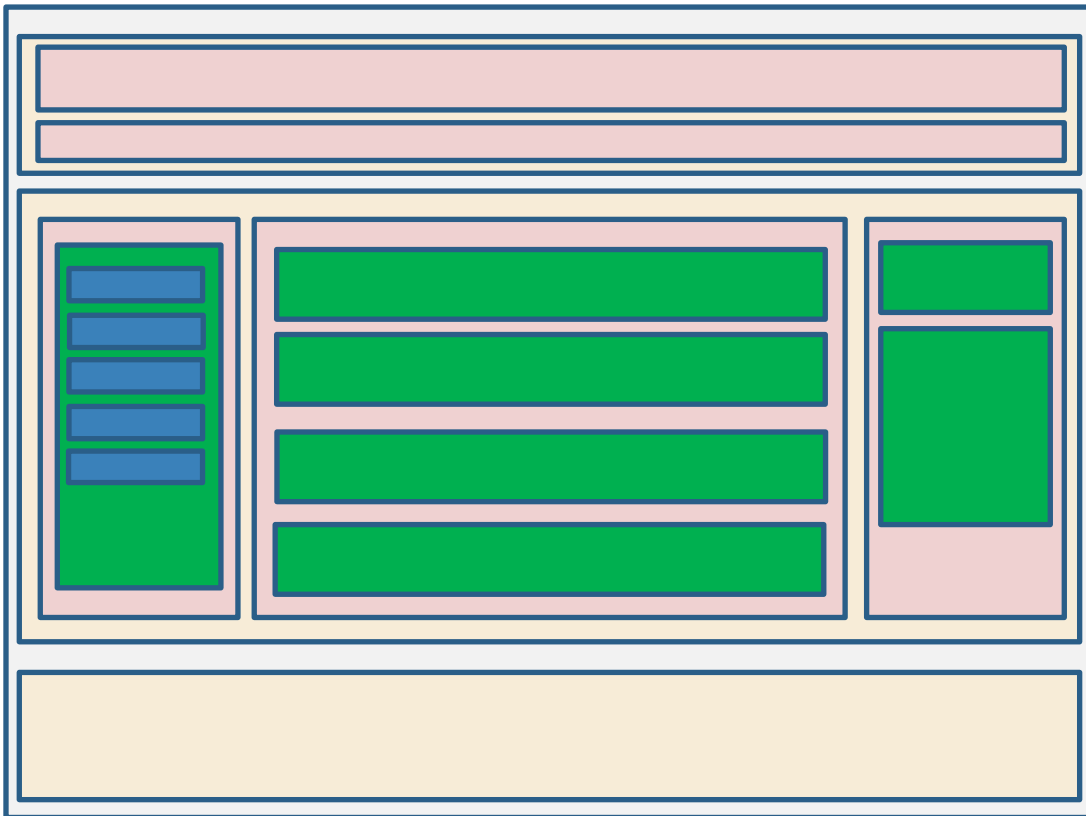
No Styles

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Side-Bar

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https://www.w3schools.com/css/css_intro.asp

10

step3

각 영역에 컨텐츠 배치

Welcome to My Homepage
Use the menu to select different Stylesheets

- Stylesheet 1
- Stylesheet 2
- Stylesheet 3
- Stylesheet 4
- No Stylesheet

Same Page Different Stylesheets

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Side-Bar

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https://www.w3schools.com/css/css_intro.asp

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step4

CSS : 스타일

Welcome to My Homepage
Use the menu to select different Stylesheets

Stylesheet 1	
Stylesheet 2	**Same Page Different Stylesheets**
Stylesheet 3	
Stylesheet 4	
No Stylesheet	

Same Page Different Stylesheets

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Side-Bar

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https://www.w3schools.com/css/css_intro.asp

Welcome to My Homepage

Use the menu to select different Stylesheets

- Stylesheet 1
- Stylesheet 2
- Stylesheet 3
- Stylesheet 4
- No Stylesheet

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Side-Bar

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CSS 적용 전

step4

CSS : 스타일

Welcome to My Homepage
Use the menu to select different Stylesheets

CSS 적용 후

- Stylesheet 1
- Stylesheet 2
- Stylesheet 3
- Stylesheet 4
- No Stylesheet

Same Page Different Stylesheets

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Lorem ipsum dolor sit amet, consectetuer adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et accumsan et iusto odio dignissim qui blandit praesent luptatum zzril delenit augue duis dolore te feugait nulla facilisi.

https://www.w3schools.com/css/css_intro.asp

HTML tags

- **HTML Basic**
  - 〈html〉〈head〉〈body〉
- **HTML Headings**
  - 〈h1〉〈h2〉… 〈h6〉
- **HTML Paragraph**
  - 〈p〉〈br〉〈pre〉
- **HTML Block**
  - 〈div〉〈ul〉〈ol〉〈li〉
- **HTML Links**
  - 〈a〉

Run »

Result Size: 312 x 795

```html
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
<body>

<h1>This is a Heading</h1>
<p>This is a paragraph.</p>

</body>
</html>
```

This is a Heading

This is a paragraph.

https://www.w3schools.com/html/default.asp

https://www.w3schools.com/html/tryit.asp?filename=tryhtml_default

14
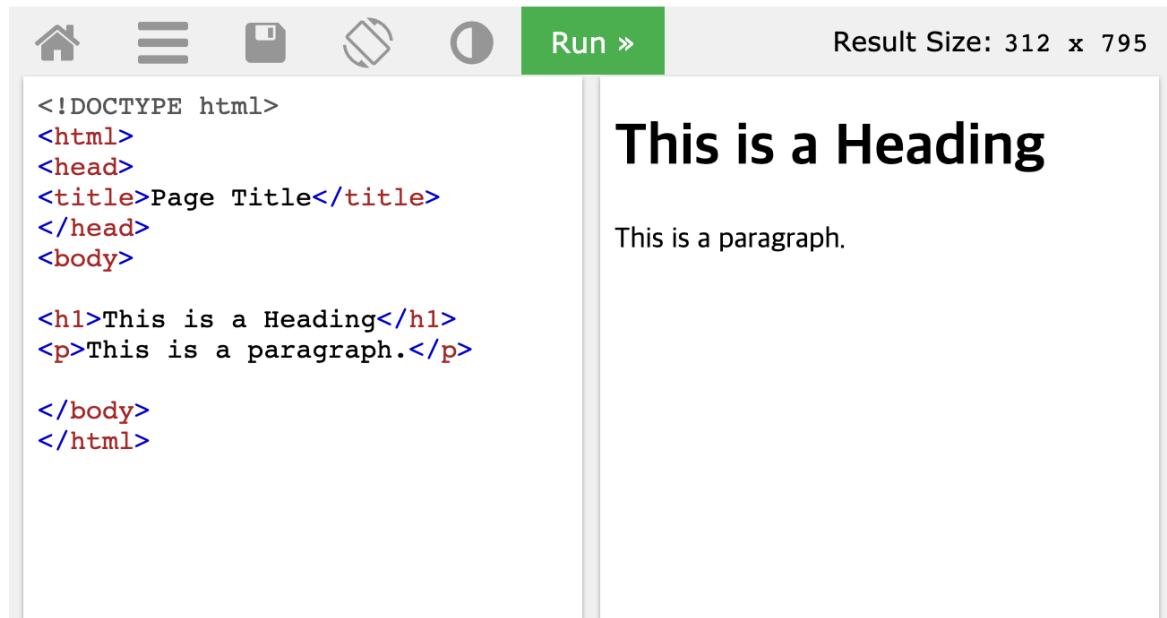
html 기본 구조

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,
    initial-scale=1.0">
    <title>Document</title>
</head>

<body>
    <h1>This is a Heading</h1>
    <p>This is a paragraph.</p>
</body>
</html>
```

- html tag
  - ⟨head⟩,⟨body⟩
- head tag
  - ⟨meta⟩,⟨title⟩,⟨style⟩,⟨script⟩
- body tag
  - 사용자 View, ⟨div⟩, ⟨header⟩,⟨nav⟩…
- Tag 사용
  - ⟨div⟩this is a ⟨h1⟩heading⟨/h1⟩⟨/div⟩
  - ⟨br /⟩ ⟨img src='a.jpg' /⟩

html5와 html4의 차이점

- 2014년 10월 발표
- **구조적인 요소를 다루는 태그 추가 : 기존 div 요소 대신 사용 가능**
  - ⟨header⟩, ⟨nav⟩, ⟨article⟩, ⟨section⟩, ⟨aside⟩, ⟨footer⟩
- **멀티미디어 요소를 다루는 태그 추가 : 플러그인 없이 멀티미디어 재생**
  - ⟨audio⟩, ⟨video⟩, ⟨canvas⟩
- **그 외 다수 태그들이 추가됨**
  - ⟨command⟩, ⟨datalist⟩, ⟨details⟩, ⟨embed⟩ ⋯
- **CSS로 대체 가능한 기존 태그들은 삭제**
  - ⟨b⟩, ⟨center⟩, ⟨strong⟩, ⟨font⟩, ⋯
- **웹 접근성 향상을 위해 frame 관련 태그들도 삭제**
  - ⟨frame⟩, ⟨frameset⟩, ⟨noframes⟩

https://ko.wikipedia.org/wiki/HTML5

html5 Tags

Total 7,101,531 pages

Tag	Percent
<html>	100%
<head>	100%
<body>	98.8%
<title>	97.1%
<meta>	95.4%
<div>	93.1%
<a>	92.6%
<script>	90.4%
<link>	89.5%
<img>	88.9%
<span>	82.7%
<p>	82.3%
	77.7%
	77.6%
<style>	76.2%
 	69.7%
<h1>	59.4%
<h2>	59.4%
<input>	54.9%
<form>	50.8%
<h3>	49.4%
<nav>	48%
<header>	46.1%
<footer>	46%
<iframe>	44.7%
<strong>	44.2%
<button>	38.8%
<i>	35.3%

17

html5 layouts

HEADER	
MENU	**BODY**
FOOTER	

HEADER
NAVIGATION

CONTENT	SIDEBAR

FOOTER

HEADER
NAVIGATION
ARTICLE
FOOTER

header

section	aside

footer
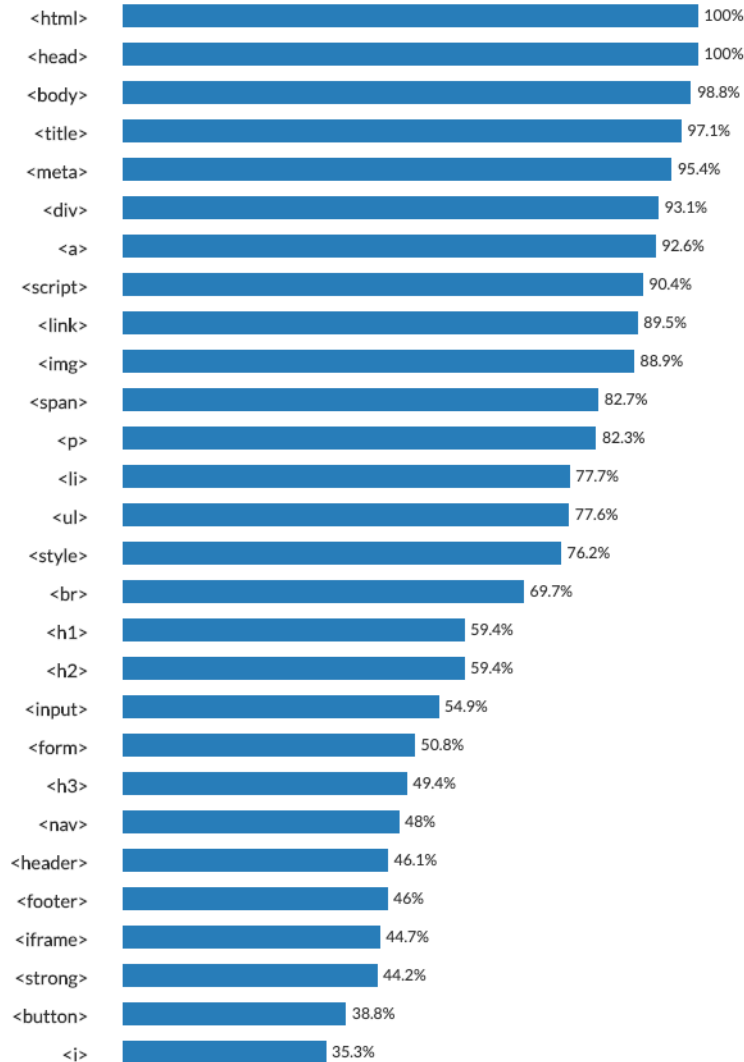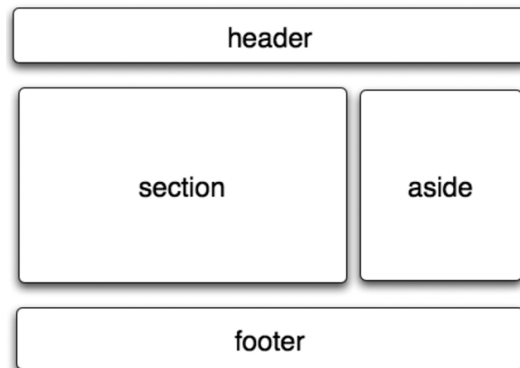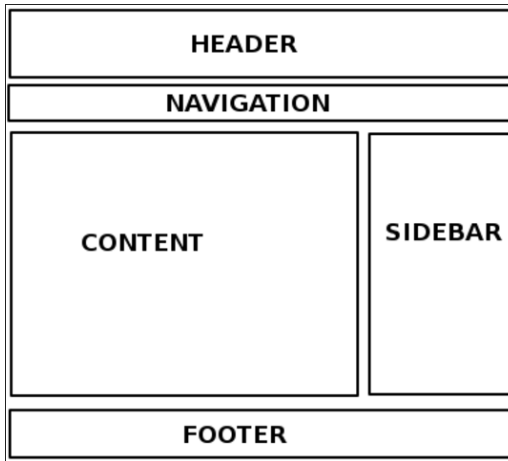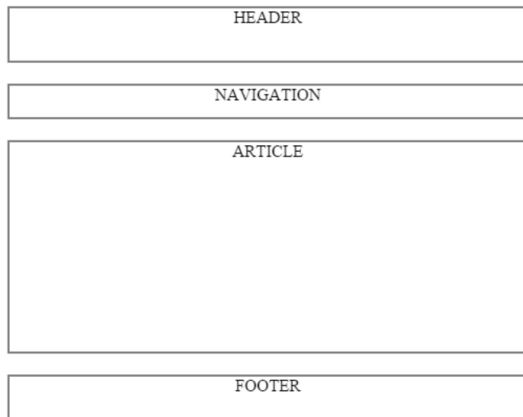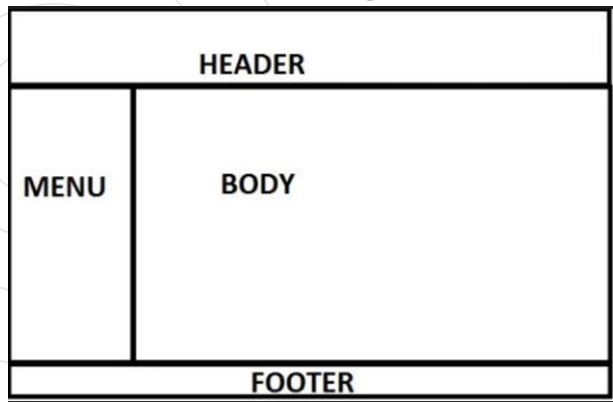
Sample Web Page 의 html tags

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Use the menu to select different Stylesheets

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Stylesheet 2
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Stylesheet 4
No Stylesheet

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Lorem ipsum dolor sit amet, consectetuer adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et accumsan et iusto odio dignissim qui blandit praesent luptatum zzril delenit augue duis dolore te feugait nulla facilisi.

- Used Tags
  - ⟨html⟩,⟨head⟩,⟨body⟩
  - ⟨style⟩
  - ⟨div⟩
  - ⟨h1⟩,⟨h2⟩,⟨h3⟩
  - ⟨p⟩
  - ⟨a⟩, ⟨ul⟩, ⟨li⟩
- Block element
  - ⟨div⟩, ⟨p⟩, ⟨h1⟩~⟨h6⟩, ⟨ul⟩, ⟨li⟩
- Inline element
  - ⟨a⟩, ⟨img⟩, ⟨span⟩

https://www.w3schools.com/css/demo_default.htm

CSS Tutorials

○ CSS Syntax

```
p {
    color: red;
    text-align: center;
}
```


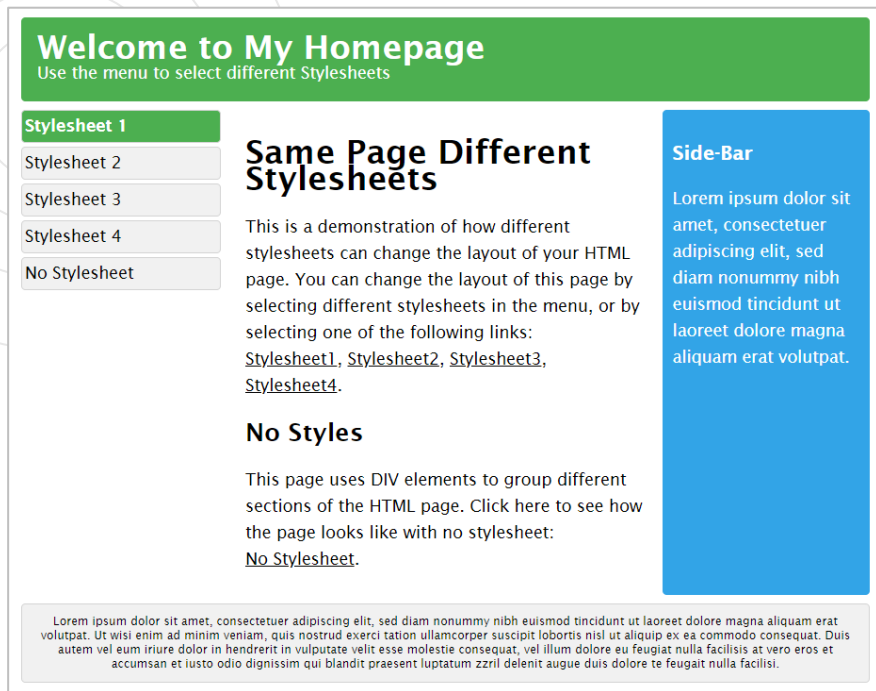| Selector | Declaration | Declaration |
| h1 | {color:blue; font-size:12px;} |

○ CSS Simple selectors

- **element** – HTML elements

- **#id** – the id attribute of an HTML element to select a specific element.

- **.class** – HTML elements with a specific class attribute
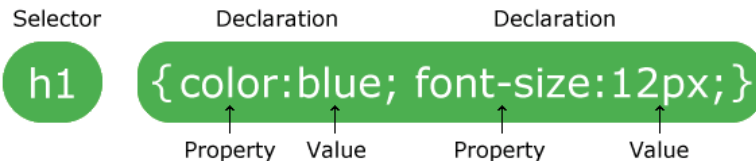
Selector	Example	Example description
.class	.intro	Selects all elements with class="intro"
#id	#firstname	Selects the element with id="firstname"
***	*	Selects all elements
element	p	Selects all <p> elements
element,element,..	div, p	Selects all <div> elements and all <p> elements

https://www.w3schools.com/css/default.asp

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Sample Web Page 의 CSS 속성들

Welcome to My Homepage
Use the menu to select different Stylesheets

Stylesheet 1
Stylesheet 2
Stylesheet 3
Stylesheet 4
No Stylesheet

Same Page Different Stylesheets

This is a demonstration of how different stylesheets can change the layout of your HTML page. You can change the layout of this page by selecting different stylesheets in the menu, or by selecting one of the following links: Stylesheet1, Stylesheet2, Stylesheet3, Stylesheet4.

No Styles

This page uses DIV elements to group different sections of the HTML page. Click here to see how the page looks like with no stylesheet: No Stylesheet.

Side-Bar

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- Used Properties
  - background-color : yellow;
  - color : blue;
  - border-radius : 2px;
  - list-style : none;
  - float : left;
  - margin : 10px;
  - padding :10px;
  - line-height :23px;
  - text-align : center;
  - …

https://www.w3schools.com/css/demo_default.htm

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컨텐츠 작성 | HTML : 레이아웃 배치 | 각 영역에 컨텐츠 배치

step1~3

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https://www.w3schools.com/css/css_intro.asp

step 4

CSS : 스타일

Welcome to My Homepage
Use the menu to select different Stylesheets

Stylesheet 1	**Same Page Different Stylesheets**	Side-Bar
Stylesheet 2		Lorem ipsum dolor sit
Stylesheet 3	This is a demonstration of how different	amet, consectetuer
Stylesheet 4	stylesheets can change the layout of your HTML	adipiscing elit, sed
No Stylesheet	page. You can change the layout of this page by	diam nonummy nibh

https://www.w3schools.com/css/css_intro.asp

Welcome to My Homepage

Use the menu to select different Stylesheets

- Stylesheet 1
- Stylesheet 2
- Stylesheet 3
- Stylesheet 4
- No Stylesheet

CSS 적용 전

Welcome to My Homepage
Use the menu to select different Stylesheets

CSS 적용 후

- Stylesheet 1
- Stylesheet 2
- Stylesheet 3
- Stylesheet 4

No Stylesheet.

Side-Bar

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step 4

```
<div id="top">
    <h1>Welcome to My Homepage</h1>
    <p>Use the menu to select different Stylesheets</p>
  </div>
```

```
<head>
    <style>
        div#top {
            border-radius : 4px;
            background-color: ■#4CAF50;
            color : □white;
            padding : 10px;
        }


        h1, p { padding:0px ;
            margin:0px;
        }
    </style>
</head>
```

https://www.w3schools.com/css/css_intro.asp

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Google Font

Grandstander

Select styles   Glyphs   About   License

Extra-light 200
Almost before we knew it
+ Select this style

Extra-light 200 italic
Almost before we knew it
+ Select this style

Light 300
Almost before we knew i
— Remove this style

Light 300 italic
Almost before we knew it
+ Select this style

Regular 400
Almost before we knew it
+ Select this style

Regular 400 italic
Almost before we knew it
+ Select this style

Selected family ✕

Review   **Embed**

To embed a font, copy the code into the <head> of your html

<link>   @import

```
<link href="https://fonts.googl
eapis.com/css2?family=Grandstan
der:wght@300&display=swap" rel
="stylesheet">
```

CSS rules to specify families

```
font-family: 'Grandstander', cu
rsive;
```

⧉ API docs