

6

Web Forms

step1

컨텐츠 작성

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.

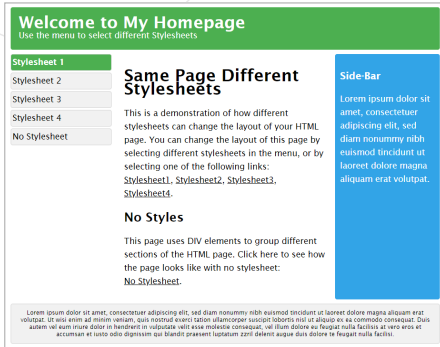
Side-Bar

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Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exercitation 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 duiis dolore te feugait nulla facilisi.

step2

HTML : 레이아웃 배치

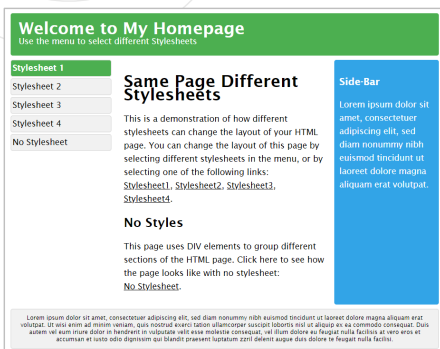


https://www.w3schools.com/css/css_intro.asp

3

step3

각 영역에 콘텐츠 배치



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

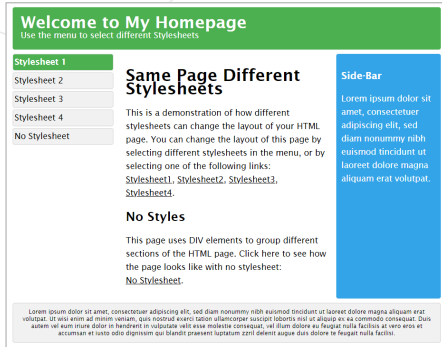
4

컨텐츠 작성

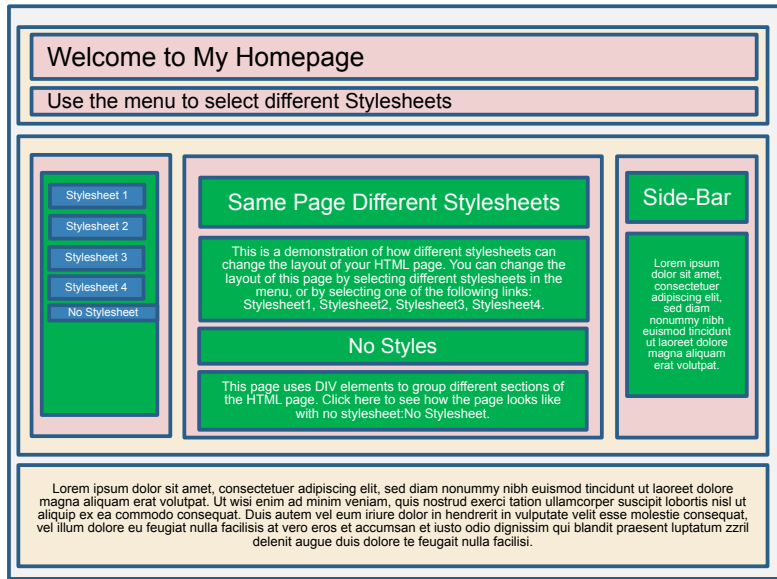
HTML : 레이아웃 배치

각 영역에 컨텐츠 배치

step1 ~ 3



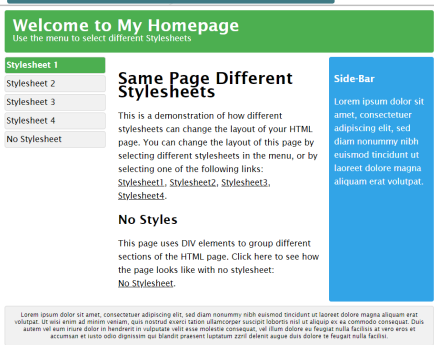
https://www.w3schools.com/css/css_intro.asp



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step4

CSS : 스타일



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

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css 적용 전

6

step4

CSS : 스타일

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Lorem ipsum dolor sit amet, consectetur 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 duiis dolore te feugait nulla facilisi.

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

Welcome to My Homepage

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CSS 적용 후

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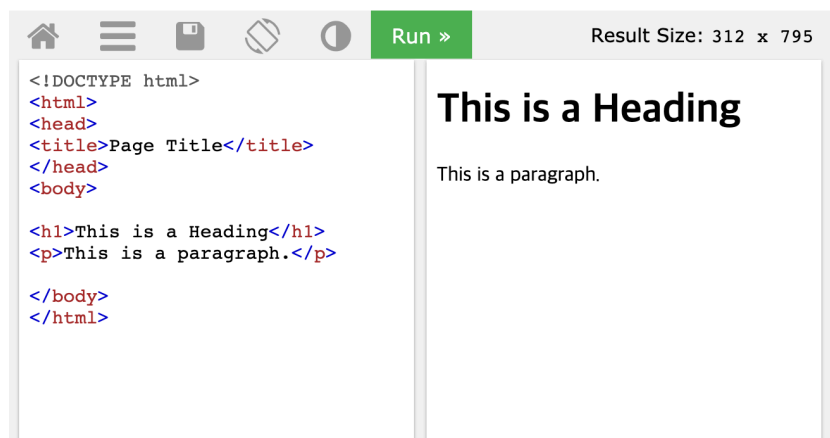
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Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex 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 duiis dolore te feugait nulla facilisi.

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HTML tags

- HTML Basic
 - `<html>` `<head>` `<body>`
- HTML Headings
 - `<h1>` `<h2>` ... `<h6>`
- HTML Paragraph
 - `<p>` `
` `<pre>`
- HTML Block
 - `<div>` `` `` ``
- HTML Links
 - `<a>`



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

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

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CSS Tutorials

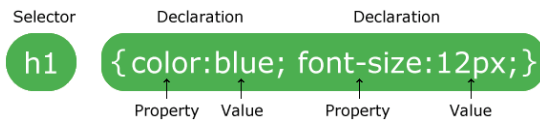
CSS Syntax

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

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

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



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

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HTML form

- 사용자의 데이터를 서버에 전송하는 방법
- 로그인
- 회원가입
- 글 작성, 파일 업로드 등

Username

Email

Password

Make sure it's at least 15 characters OR at least 8 characters including a number and a lowercase letter. [Learn more.](#)

Sign up for GitHub

My Profile

Upgrade your account

First Name Last Name

School or company name

Add a Bio

Save

회원정보

아이디(*) (최대 10자입력)

이름(*)

비밀번호(*)

비밀번호 찾기 질문/답변

다른 이메일 주소는?

나의 보물 1호는?

나의 출신 초등학교는?

메일링 가입 예 아니오

부가정보

핸드폰번호(*)

자기소개

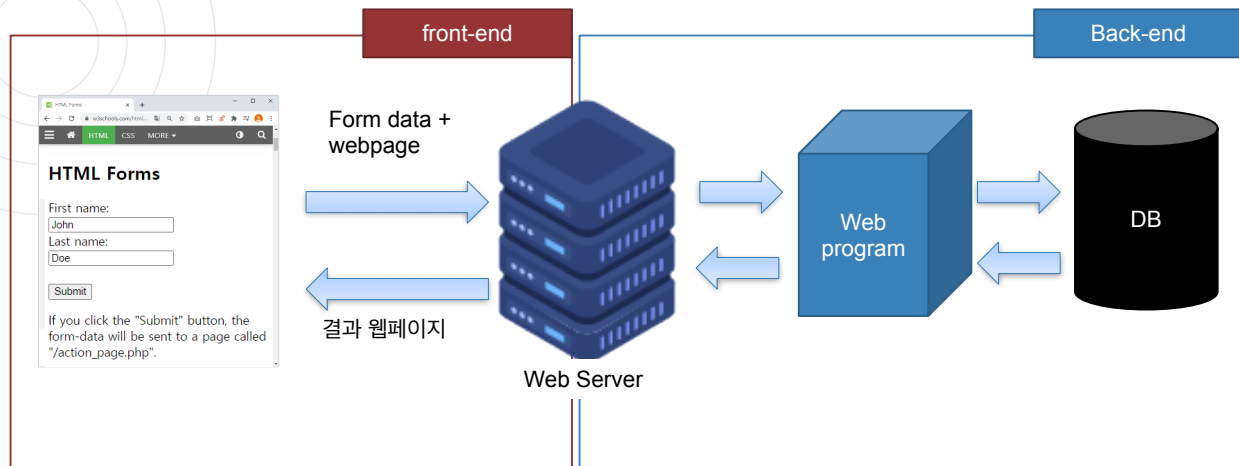
자신에 대해 간단히 소개하세요

SMS 수신 허용

새로입력 회원가입

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Form 동작원리



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Form 기본구조

HTML Forms

사용자 정보 입력

이름:

이메일:



```
<!DOCTYPE html>
<html>
<body>

<h2>HTML Forms</h2>

<p>사용자 정보 입력</p>

<form action="form_ok.php" method="post">

  <label for="uname">이름:</label><br>
  <input type="text" id="uname" name="uname"
placeholder='이름을 입력'><br>

  <label for="email">이메일:</label><br>
  <input type="text" id="email" name="email" ><br>
<br>

  <input type="submit" value="Submit">
</form>

</body>
</html>
```

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Form 태그 속성

- action : 폼 데이터를 전송하면 받는 서버쪽 파일 지정
- method : 폼을 서버에 전송하는 메소드 종류
 - get/post
- name : 폼 이름 식별자
- target
 - action 파일을 현재 창이 아닌 다른 창에서 열도록 할 때 지정
- enctype
 - 폼 데이터가 서버에 전송할 때 인코딩 되는 방식
 - 파일 전송시 사용
 - **enctype="multipart/form-data"**

```
<form action="form_ok.php" method="post">
  <!--
    form elements
  -->
</form>
```

Form method : Get/Post

- GET
 - Default
 - URL에 폼 데이터가 포함되어 전송
 - 전송할 수 있는 정보 길이가 제한되어 있음
 - 퍼머링크(permalink, 고유한 주소체계)로 사용될 수 있음
- POST
 - 폼 데이터는 header의 body에 담겨 전송
 - URL에 정보가 표시되지 않음
 - 전송할 수 있는 데이터 길이 제한이 없음
 - GET 방식 보다 보안성이 높음

```
<form method='get'
```

🔒 google.com/search?q=날씨&oq=날씨

```
<form method='post'
```

Form Elements(1)

- `<fieldset>`, `<legend>` tag
 - 폼 엘리먼트를 그룹화 할 때 사용
 - 그룹화한 폼 엘리먼트의 이름을 지정할 때 사용

개인 정보 입력

이름 :

이메일 :

```
<form action="save_ok.php" name="person" method="post">

  <fieldset style='width:200px;margin:5px'>
    <legend>개인 정보 입력</legend>
    이름 : <input type = "text" name = "name"/><br><br>
    이메일 : <input type = "text" name = "email"/><br><br>
  </fieldset>

  <input type='submit' value='저장'> <input type='reset' value='취소'>

</form>
```

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Form Elements(2)

- `<input>` tag
 - 폼 태그 내에 다양한 모양으로 입력할 수 있는 엘리먼트 제공
 - type 속성
 - text, password, radio, checkbox, button, hidden, file, submit, reset 등
 - name : 엘리먼트 이름
 - id : 엘리먼트 id
 - readonly : 읽기 전용
 - maxlength=10: 입력 글자수 개수 지정
 - html5에 추가된 속성
 - required(필수입력), autofocus(첫 포커스), placeholder(입력 엘리먼트 힌트), pattern(정규표현식 사용)

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Form Elements(2)

- <input> tag

- submit

- 폼에 입력한 데이터를 서버로 전송하는 기능

```
<input type='submit' value='저장'>
```

저장

- reset

- 폼 안에 있는 엘리먼트의 값을 초기화 하는 기능

```
<input type='reset' value='취소'>
```

취소

example1

*이름:
*비밀번호:
핸드폰번호:
성별: ☒ 남 ☐ 여
취미: ☒ 영화감상 ☐ 독서 ☐ 스포츠

저장 새로입력

```
<form action="save_ok.php">
  <label for="fname"><span>*</span>이름:</label>
  <input type="text" id="uname" name="uname" required><br>
  <label for="pwd"><span>*</span>비밀번호:</label>
  <input type="password" id="pwd" name="pwd" placeholder='4자 이상 입력' required><br>
  <label for="mobile">핸드폰번호:</label>
  <input type="text" id="mobile" name="mobile" placeholder="00*-000*-0000" pattern="[0-9]{2,3}-[0-9]{3,4}-[0-9]{3,4}" maxlength="13"><br>
  <label for="gender1">성별:</label>
  <input type="radio" id="gender1" name="gender" value="M" checked>남 <input type="radio"
id="gender" name="gender" value="W">여 <br>
  <label for="hobby1">취미:</label>
  <input type="checkbox" id="hobby1" name="hobby1" value="1" checked>영화감상
  <input type="checkbox" id="hobby2" name="hobby2" value="2">독서
  <input type="checkbox" id="hobby3" name="hobby3" value="3">스포츠 <br>
  <br>
  <input type="submit" value="저장"> <input type="reset" value="새로입력">
</form>
```

Form Elements(3)

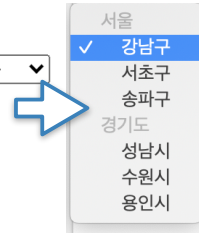
- `<select>`, `<optgroup>`, `<option>` tag
 - 목록 중의 항목을 선택하는 태그
 - multiple, selected 속성 제공

지역선택(서울시) :

지역선택(서울) :

```
<select name="city">
  <optgroup label="서울">
    <option value="1">강남구</option>
    <option value="2" selected>서초구</option>
    <option value="3">송파구</option>
  </optgroup>
</select>
```

지역선택 : 강남구 ▼



지역선택 :

```
<select name="city">
  <optgroup label="서울">
    <option value="1">강남구</option>
    <option value="2">서초구</option>
    <option value="3">송파구</option>
  </optgroup>
  <optgroup label="경기도">
    <option value="11">성남시</option>
    <option value="12">수원시</option>
    <option value="13">용인시</option>
  </optgroup>
</select>
```

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Form Elements(4)

- `<textarea>` contents `</textarea>` tag
 - 여러 줄의 텍스트를 입력받을 때 사용하는 태그
 - rows, cols 속성 제공

제목 : `<input type='text' name='subject'>
`
내용 : `
`
`<textarea name='content' cols=40 rows=5></textarea>`

제목 :

내용 :

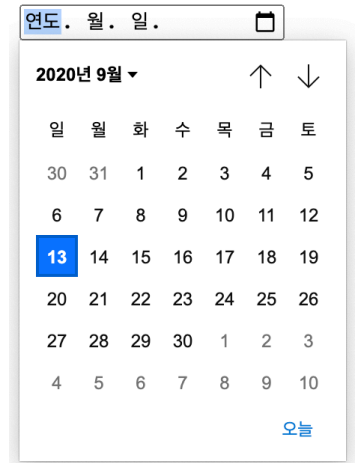
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Form Elements(5) : html5 추가

- **<datalist> tag**
 - 텍스트 입력 엘리먼트이며 클릭하면 후보 목록을 제공할 수 있음
 - text + option 기능
- **<input> tag**
 - 시간관련 type 추가
 - date, month, week, time, date time 등 추가

```
<input type='date' min='2019-01-01' max='2020-12-31'
name='fromdate'>
```

- 숫자 입력 type 추가
 - number, range 추가



Form Elements(5) : html5 추가

- **<input> tag**
 - color type 추가

```
<input type='color' name='color' value='#ff0000'>
```

