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# HTML & CSS

# HTML(Hyper Text Markup Language) Tag

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- ❖ HTML is the standard markup language for creating Web pages
- ❖ <tagname>content goes here...</tagname>

```
<html>
```

```
<head>
```

```
<title>Page title</title>
```

```
</head>
```

```
<body>
```

```
<h1>This is a heading</h1>
```

```
</body>
```

```
</html>
```

❖ 따라해보기(index.html)

```
<!DOCTYPE html>
<!-- HTML5 -->
<html>
<head>
  <title>Home</title>
</head>
<body>
  <h1>This is a Heading</h1>
  <p>This is a paragraph.</p>
</body>
</html>
```

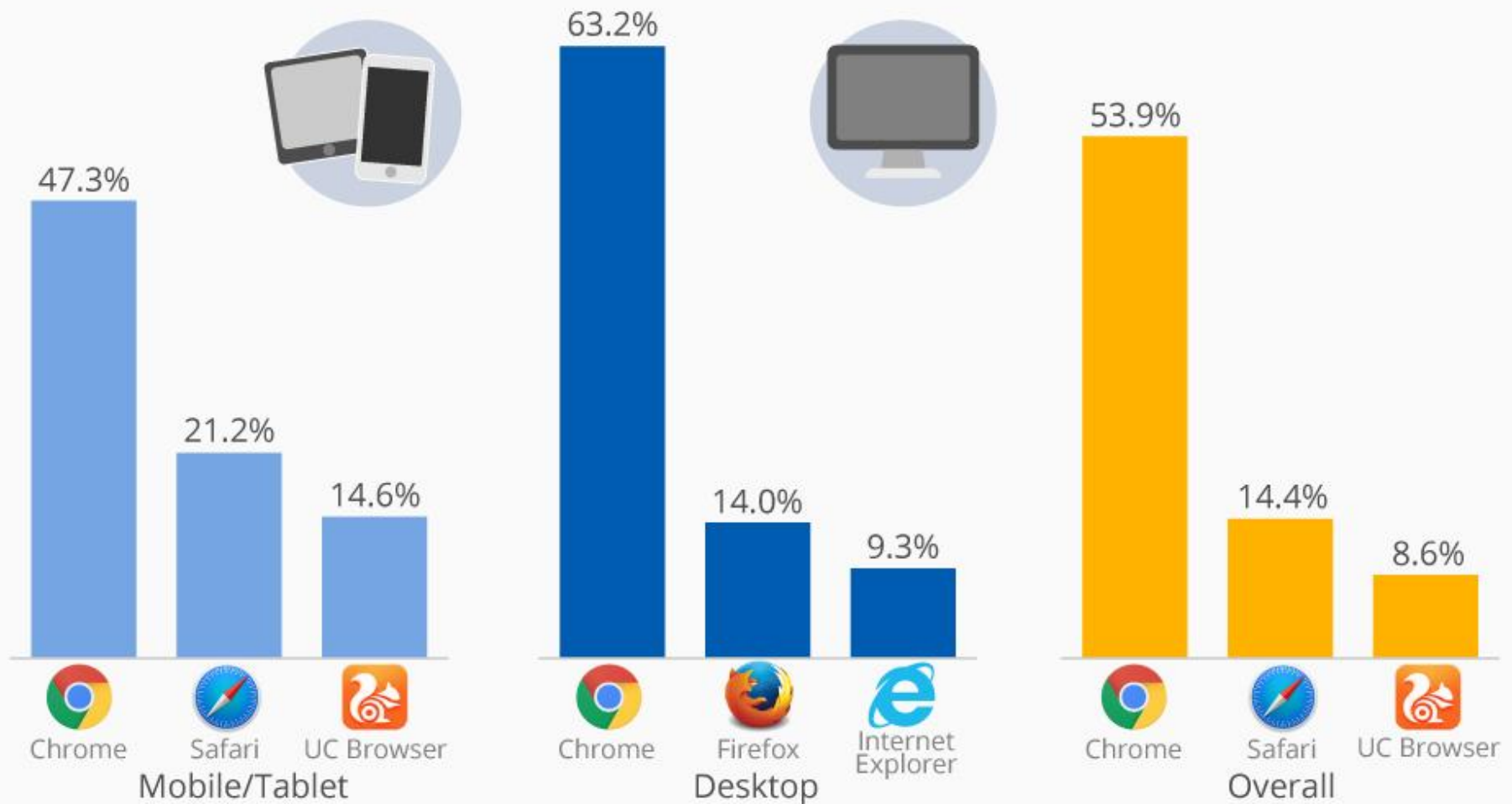
❖ 실행결과

# My First Heading

My first paragraph.

## Chrome Is the Number 1 Browser in the World

Market share of the top 3 web browsers worldwide in June 2017, by platform




@StatistaCharts Source: StatCounter

statista

# Version & Web Browser 번역기?

Version	Year
HTML	1991
HTML 2.0	1995
HTML 3.2	1997
HTML 4.01	1999
XHTML	2000
HTML5	2014

				
Yes	Yes	Yes	Yes	Yes
				
6.0	9.0	4.0	5.0	11.1
				
1.0	Not supported	3.0	4.0	11.7

# Chrome(& inspect)

**View** History Bookmarks People Window Help

- Always Show Bookmarks Bar ⌘B
- Always Show Toolbar in Full Screen ⌘F
- Stop ⌘.
- Force Reload This Page ⌘R
- Enter Full Screen ^⌘F
- Actual Size ⌘0
- Zoom In ⌘+
- Zoom Out ⌘-
- Cast...
- Developer**

- View Source ⌘U
- Developer Tools** ⌘I
- JavaScript Console ⌘J

## Welcome to the homepage

### 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 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.

#### Elements

```
<!DOCTYPE html>
<html>
  <#shadow-root (open)>
    <script>...</script>
    <head>...</head>
  <body>...
    <div class="container wrapper">...</div>
    <script>...</script>
  </body>
</html>
```

#### body

Styles	Event Listeners	DOM Breakpoints	Properties
Filter	:hov .cls +		
element.style {			
body {			font-family: Arial; background-color: #d14836; line-height: 20px;
body {			user agent stylesheet display: block; margin: 8px;

margin: 8px  
border: 1px solid black  
padding: 5px  
845 x 664.359

Filter ☐ Show all

Console What's New

top Filter Info



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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Table

Company	Contact	Country
Alfreds Futterkiste	Maria Anders	Germany
Berglunds snabbköp	Christina Berglund	Sweden
Centro comercial Moctezuma	Francisco Chang	Mexico
Ernst Handel	Roland Mendel	Austria
Island Trading	Helen Bennett	UK
Königlich Essen	Philip Cramer	Germany
Laanhouse Wines	Yoshi Tannamuri	Canada

Welcome to My Homepage

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- Stylesheet 1
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- Stylesheet 4
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Stylesheet 1

Stylesheet 2

Stylesheet 3

Stylesheet 4

No Stylesheet

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Welcome to My Homepage

Use the menu to select different Stylesheets

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

Side-Bar

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat.

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:

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Alfreds Futterkiste	Maria Anders	Germany

- ❖ **<h1> to <h6>** : Headings tags

ex) `<h2>This is heading 2</h2>`

- ❖ **<p>** : paragraphs tag

ex) `<p>This is another paragraph.</p>`

- ❖ **<a>** : Hyperlinks tag

ex) `<a href="https://www.yojulab.com" target="_blank">This link</a>`

`<a href="multiple/styleSheetNo.html">No Stylesheet</a>`

`<a href="index.html#C4">Jump to C4</a>`

- ❖ **<ul>** : Unordered List tag, **<ol>** : Ordered List tag, **<li>** : Each list item tag

ex) `<ul>`

`<li>Coffee</li>`

`<li>Tea`

`<ul>`

`<li>Black tea</li>`

`<li>Green tea</li>`

`</ul>`

`</li>`

`</ul>`



## Try - HTML Elements(<h?>, <p>, <a>, <ul>) 이해

- ❖ 해보기 (multiple/styleSheetNo.html, styleSheet01.html ~ styleSheet04.html)
  - 5개 HTML 파일 생성
  - 파일간 상호 이동 가능한 Links tag 포함 (StyleSheet1 ~ No StyleSheet)
  - index.html와 styleSheetNo.html 상호 이동 가능 Links tag 포함
- ❖ 실행결과 (styleSheetNo.html)

### 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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StyleSheet1, StyleSheet2, StyleSheet3, StyleSheet4. No StyleSheet.

## HTML Elements - <table>, <tr>, <td>

- ❖ **<table>** : table tag,
  - <tr>** : row tag,
  - <th>** : header tag,
  - <td>** : data/cell tag

ex) **<table border="1">**

**<tr>**

**<th>**Firstname</th>

**<th>**Lastname</th>

**<th>**Age</th>

**</tr>**

**<tr>**

**<td>**Jill</td>

**<td>**Smith</td>

**<td>**50</td>

**</tr>**

**?**

**</table>**

Firstname	Lastname	Age
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

## Try - HTML Elements(<table>, <tr>, <td>) 이해

### ❖ 해결 해보기 (testTable01.html)

```
<table style="width:100%" border="1">
  <caption>Cell Phones</caption>
  <tr>
    <th>Name</th>
    <th colspan="2">Telephone</th>
  </tr>
  <tr>
    <td>Bill Gates</td>
    <td>55577854</td>
    <td>55577855</td>
  </tr>
  <tr>
    <td rowspan="2">John Smith</td>
    <td>88877854</td>
    <td>88877855</td>
  </tr>
</table>
```

Name	Telephone	
Bill Gates	55577854	55577855
John Smith	88877854	
	88877855	

## Try - HTML Elements(<table>, <tr>, <td>) 이해

### ❖ 해보기 (multiple/styleSheetNo.html)

➤ 기존 파일 밑에 작성

### ❖ 실행결과 (styleSheetNo.html)

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Island Trading	Helen Bennett	UK
Königlich Essen	Philip Cramer	Germany
Laughing Bacchus Winecellars	Yoshi Tannamuri	Canada
Magazzini Alimentari Riuniti	Giovanni Rovelli	Italy

#### Side-Bar

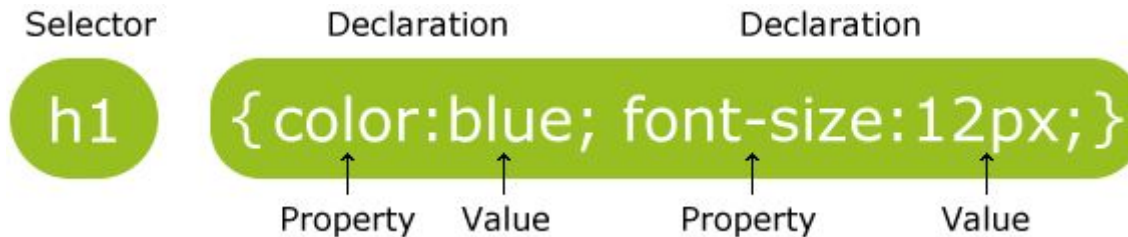
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat.

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

# CSS(Cascading Style Sheets)

- ❖ Be displayed on screen, paper, or in other media
- ❖ added 3 ways (3waysCSS/\*.html)
  - Inline : **<tagname style="property:value;">**  
ex) **<h1 style="color:blue;">**This is a Blue Heading**</h1>**
  - Internal : by using a **<style>** element in the **<head>** section  
ex) **<style>**  
    **body {background-color: powderblue;}**  
    **h1 { color: blue; }**  
    **</style>**
  - External : by using an external CSS file  
ex) 1. 파일 생성 → **css/styles01.css**  
    **body {background-color: powderblue;}**  
    **h1 { color: blue; }**  
    **p { color: red; }**  
    2. 링크 걸기 → **<link rel="stylesheet" href="css/styles01.css">**
- ❖ Cascading Order : **Inline > internal&External > Browser default**

# CSS - Selector



## ❖ Element Selector

ex) `<style> p { color: red; } </style>`

`<p>This is a paragraph 01.</p>`      `<p>This is a paragraph 02.</p>`

## ❖ Grouping Selectors

ex) `<style> h1, p { color: red; } </style>`

## ❖ id Selector

ex) `<style> #para2 { color: yellow; } </style>`

`<p id="para2">This is a paragraph 02.</p>`

## ❖ class Selector

ex) `<style>`

`/* This is a single-line comment */`

`.para { color: green; }`

`</style>`

`<p class="para">This is a paragraph 01.</p>`

`<p class="para">This is a paragraph 03.</p>`



```
body {  
    background-image: url("img_tree.png");  
    background-repeat: no-repeat;  
    background-position: right top;  
    background-attachment: fixed;  
}  
<h1 style="background-color:DodgerBlue;">Hello World</h1>  
<p style="color:MediumSeaGreen;">Ut wisi ad...</p>  
<h1 style="border:2px solid Violet;">Hello World</h1>  
<h1 style="background-color:rgba(255, 99, 71, 0.5);">...</h1>  
<h1 style="background-color:#ff6347;">...</h1>  
<h1 style="background-color:rgb(255, 99, 71);">...</h1>
```

# HTML Color Names

❖ [https://www.w3schools.com/colors/colors\\_names.asp](https://www.w3schools.com/colors/colors_names.asp)

Color Name	HEX	Color
<u>Black</u>	<u>#000000</u>	
<u>Navy</u>	<u>#000080</u>	
<u>DarkBlue</u>	<u>#00008B</u>	
<u>MediumBlue</u>	<u>#0000CD</u>	
<u>Blue</u>	<u>#0000FF</u>	
<u>DarkGreen</u>	<u>#006400</u>	
<u>Green</u>	<u>#008000</u>	
<u>Teal</u>	<u>#008080</u>	
<u>DarkCyan</u>	<u>#008B8B</u>	
<u>DeepSkyBlue</u>	<u>#00BFFF</u>	
<u>DarkTurquoise</u>	<u>#00CED1</u>	
<u>MediumSpringGreen</u>	<u>#00FA9A</u>	
<u>Lime</u>	<u>#00FF00</u>	
<u>SpringGreen</u>	<u>#00FF7F</u>	
<u>Aqua</u>	<u>#00FFFF</u>	
<u>Cyan</u>	<u>#00FFFF</u>	

<u>Gold</u>	<u>#FFD700</u>	
<u>PeachPuff</u>	<u>#FFDAB9</u>	
<u>NavajoWhite</u>	<u>#FFDEAD</u>	
<u>Moccasin</u>	<u>#FFE4B5</u>	
<u>Bisque</u>	<u>#FFE4C4</u>	
<u>MistyRose</u>	<u>#FFE4E1</u>	
<u>BlanchedAlmond</u>	<u>#FFEBCD</u>	
<u>PapayaWhip</u>	<u>#FFEFD5</u>	
<u>LavenderBlush</u>	<u>#FFF0F5</u>	
<u>SeaShell</u>	<u>#FFF5EE</u>	
<u>Cornsilk</u>	<u>#FFF8DC</u>	
<u>LemonChiffon</u>	<u>#FFFACD</u>	
<u>FloralWhite</u>	<u>#FFFAF0</u>	
<u>Snow</u>	<u>#FFFAFA</u>	
<u>Yellow</u>	<u>#FFFF00</u>	
<u>LightYellow</u>	<u>#FFFFE0</u>	
<u>Ivory</u>	<u>#FFFFF0</u>	
<u>White</u>	<u>#FFFFFF</u>	

## HTML Elements - <div>, <span>

- ❖ **<div>** : Defines a section in a document (block-level)

ex) `<div style="background-color:black;color:white;padding:20px;">`

`<h2>London</h2>`

`<p>London is the capital city of England. It is the most populous city in the United Kingdom, with a metropolitan area of over 13 million inhabitants.</p>`  
`</div>`

- ❖ **<span>** : Defines a section in a document (inline)

ex) `<h1>My <span style="color:red">Important</span> Heading</h1>`



## Try - 각종 Style 구현과 이해

```
p.one {  
  border-style: solid;  
  border-width: 5px;  
}  
p.four {  
  border-bottom: 6px dotted red;  
  border-width: thick;  
}  
p.five {  
  border: 2px double red;  
  border-radius: 5px;  
}  
p.seven {  
  border-style: 5px solid red;  
  border-width: 2px 10px 4px 20px;  
}  
<p class="one">Some text.</p>  
<p class="four">Some text.</p>  
<p class="seven">Some text.</p>
```



## Try - 각종 Style 구현과 이해

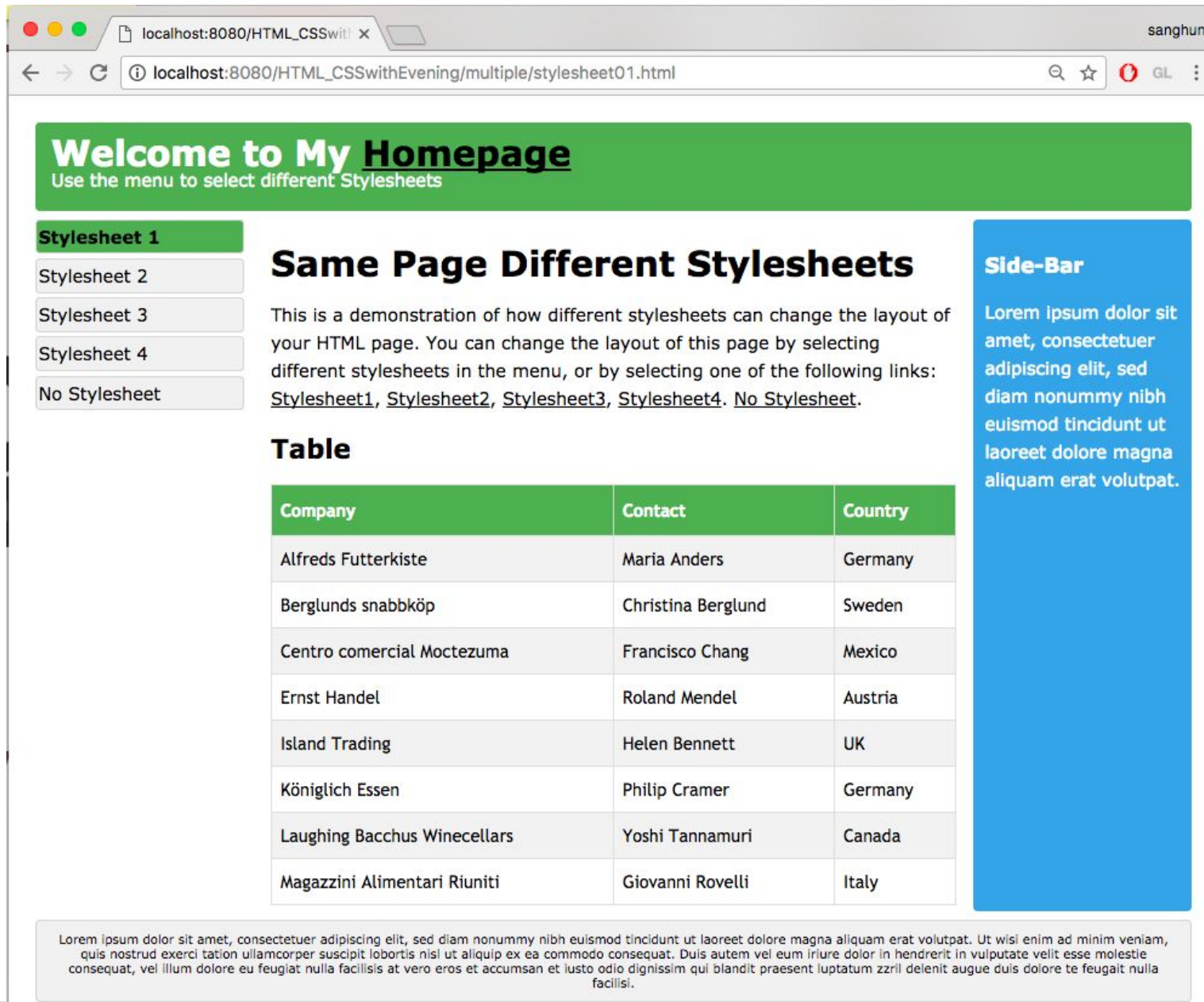
```
h2 {  
    margin: 20px 0 0 0;  
}  
div {  
    background-color: lightgrey;  
    width: 300px;  
    border: 25px solid green;  
    padding: 25px;  
    margin: 25px;  
}
```

<h2>Heading 2</h2>

<div>This div element has a top padding of 50px, a right padding of 30px, a bottom padding of 50px, and a left padding of 80px.</div>



## ❖ 실행결과 (multiple/styleSheet01.html)



localhost:8080/HTML\_CSSwithEvening/multiple/styleSheet01.html

## 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**

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat.

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 justo odio dignissim qui blandit praesent luptatum zzril delenit augue dui dolore te feugait nulla facilisi.



# Try - CSS 이해

## ❖ 사전 지식

### ➤ CSS

- border-radius: 40px;
- background-color: #4CAF50;
- padding: 15px;
- color: #ffffff;

## ❖ 해보기 (multiple/stylesheet01.html)

- stylesheetNo.html 복사해 작성
- <h1>, <p> 활용

## ❖ 실행결과 (stylesheet01.html)

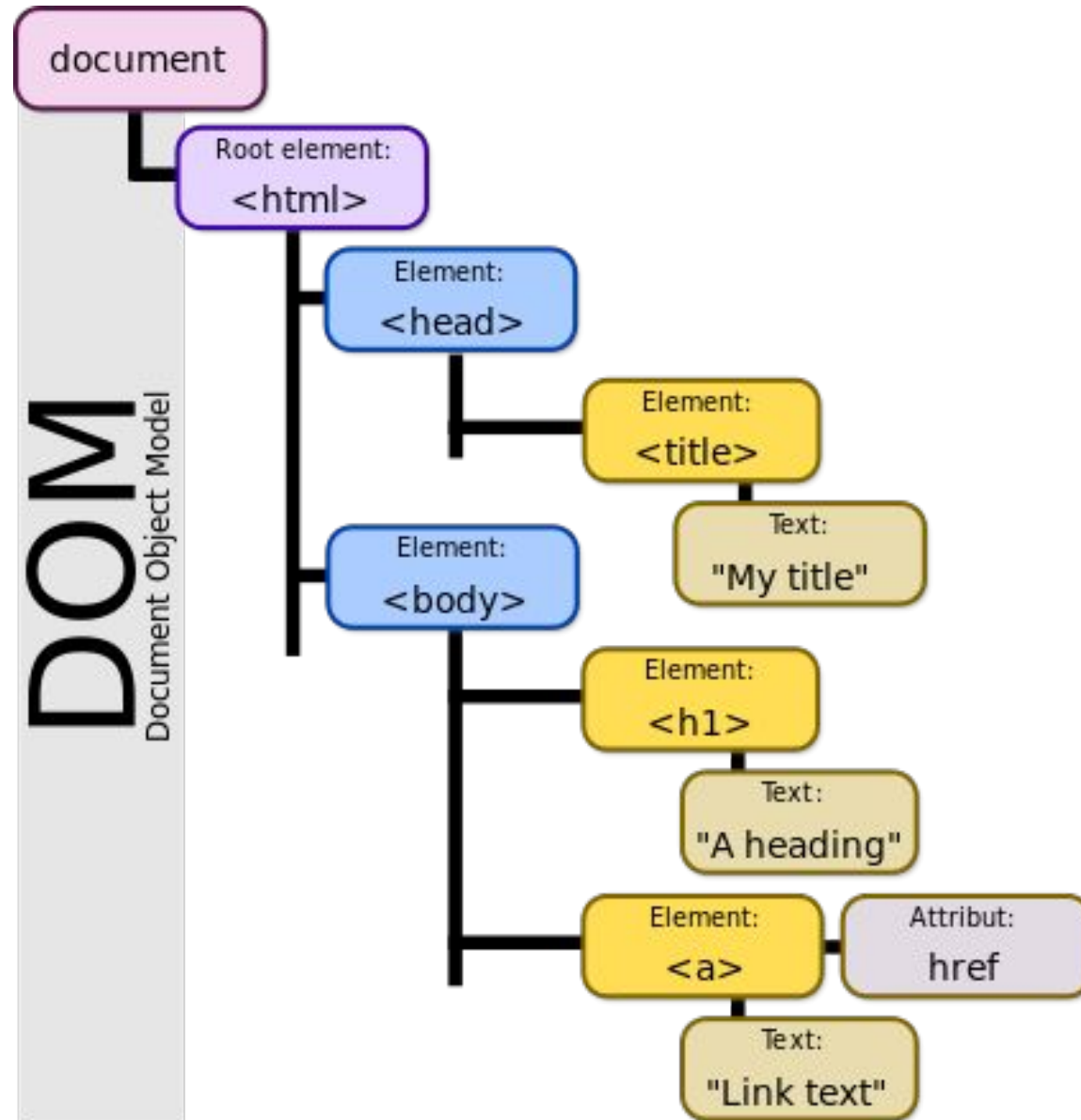
**Welcome to My Homepage**  
Use the menu to select different Stylesheets

## CSS - Icon

```
<!DOCTYPE html>
<html>
<head>
<link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.
min.css">
<link
rel="stylesheet"href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstr
ap.min.css">
</head>
<body>
  <i class="fa fa-cloud"></i><i class="fa fa-heart"></i>
  <i class="fa fa-car"></i><i class="fa fa-file"></i>
  <i class="fa fa-bars"></i>
  <i class="glyphicon glyphicon-cloud"></i>
  <i class="glyphicon glyphicon-remove"></i>
  <i class="glyphicon glyphicon-user"></i>
  <i class="glyphicon glyphicon-envelope"></i>
  <i class="glyphicon glyphicon-thumbs-up"></i>
</body>
```

# HTML DOM

- ❖ [HTML DOM Style Object Reference](#)
- ❖ [HTML DOM Events Reference](#)



- ❖ `<br>` tag

ex) To break lines `<br>` in a text, `<br>` use the `br` element.

- ❖ `iframe` is defined with the `<iframe>` tag

ex) `<iframe src="https://www.w3schools.com">`

`<p>Your browser does not support iframes.</p>`

`</iframe>`

- ❖ ``

ex) ``

- ❖ Meta tag

`<meta http-equiv="Content-Type" content="text/html; charset=utf-8">`

`<!--meta http-equiv="Content-Type" content="text/html; charset=windows-1252" -->`

`<meta name="viewport" content="width=device-width, initial-scale=1.0">`

`<meta name="keywords" content="HTML, CSS, XML, JavaScript">`

`<meta http-equiv="refresh" content="30">`

## CSS - Table

```
table {
    border-collapse: collapse;    width: 100%;
}
th, td {
    text-align: left;    padding: 8px;
}
tr:nth-child(even){background-color: #f2f2f2}
th {
    background-color: #4CAF50;    color: white;
}
<table>
  <tr><th>Firstname</th><th>Savings</th></tr>
  <tr><td>Peter</td><td>$100</td></tr>
  <tr><td>Lois</td><td>$150</td></tr>
  <tr><td>Joe</td><td>$300</td></tr>
  <tr><td>Cleveland</td><td>$250</td></tr>
</table>
```

Firstname	Savings
Peter	\$100
Lois	\$150
Joe	\$300
Cleveland	\$250

# CSS - NavigationBar

```
ul {
  list-style-type: none;    margin: 0;
  padding: 0;    overflow: hidden;    background-color: #333;
}
li {
  float: left;  border-right: 1px solid #bbb;
}
li:last-child {
  border-right: none;
}
li a {
  display: block;  color: white;  text-align: center; padding: 14px 16px;  text-decoration: none;
}
li a:hover:not(.active) {
  background-color: #111;
}
.active {
  background-color: #4CAF50;
}
<ul>
  <li><a class="active" href="#home">Home</a></li> <li><a href="#news">News</a></li>
  <li><a href="#contact">Contact</a></li>    <li style="float:right"><a
href="#about">About</a></li>
</ul>
```





# HTML Form

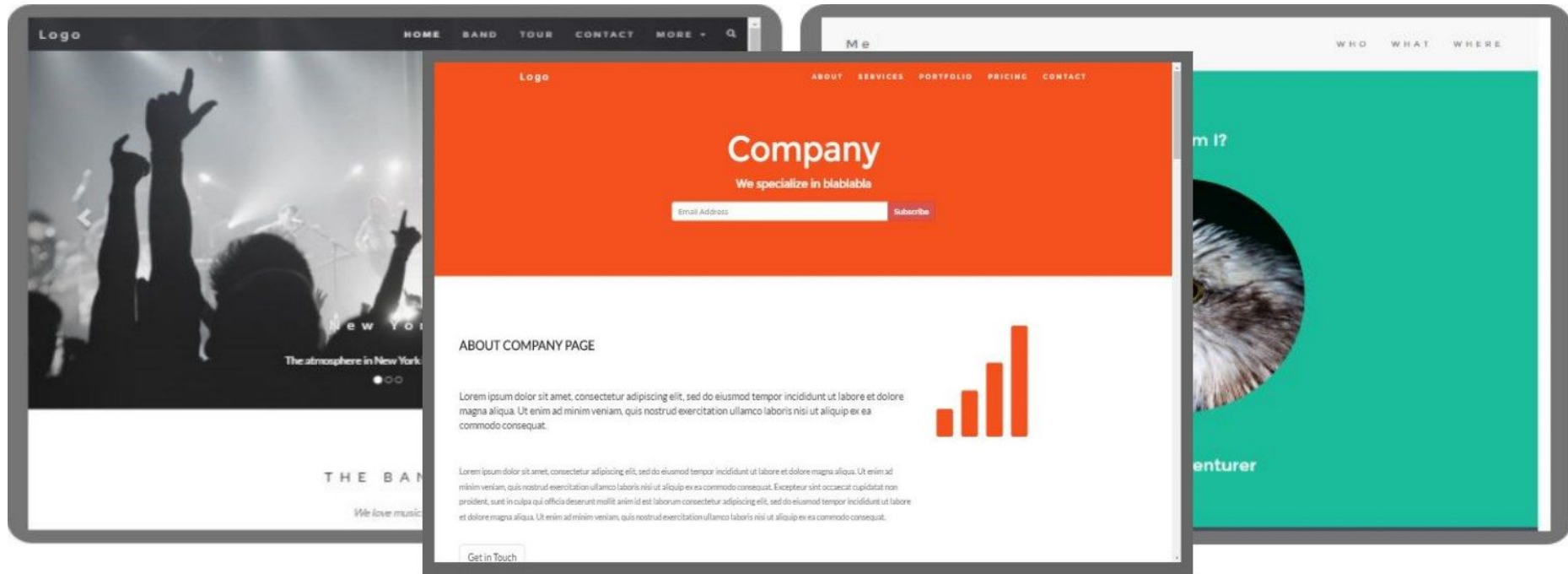
```
<form action="/action_send.html" method="post">                                → Try : method="get"
  <input type="text" name="firstname"><br>
  <input type="password" name="psw"><br>
  <select name="cars">
    <option value="volvo">Volvo</option>
    <option value="audi">Audi</option>
  </select>
  <input type="radio" name="gender" value="male" checked> Male<br>
  <input type="radio" name="gender" value="female"> Female<br>
  <input type="checkbox" name="vehicle1" value="Bike"> I have a bike<br>
  <input type="checkbox" name="vehicle2" value="Car"> I have a car <br>
  <textarea name="message" rows="10" cols="30">The cat was playing in the
  garden.</textarea><br>
  <button type="button" onclick="alert('Hello World!')">Click Me!</button><br>
  <input type="submit" value="Submit"><input type="reset">
</form>
```

# Tomcat Server

---

- ❖ help > eclipse Marketplace >> Eclipse Tomcat Plugin 9.\*\*
- ❖ Click Server tap
  - New > Server > Tomcat V8.5 Server
    - Click 'Next'
  - Click 'Download and Install...' → Waiting Installed
    - Installing plugin with background
    - Click 'Next'
  - Choose 'Project Name'
    - Click 'Finish'

- ❖ 참조 : [https://www.w3schools.com/bootstrap/bootstrap\\_templates.asp](https://www.w3schools.com/bootstrap/bootstrap_templates.asp)
- ❖ 해보기 : 최소 구성 사항.
  - Menu 구성 : home, notice, login/logout, ?, ?
  - HomePage (index.html) : image
  - notice (notice.htm;) : table, view, insert, delete
  - login/logout (logout.html) : logout message
  - personal information (personal\_infor.html) : view, edit
- ❖ 실행결과





수고하셨습니다.