

1. Web Building

웹프로그래밍

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충남대학교 컴퓨터공학과

Web Building Tutorial

❏ We will teach you how to build a website.

❏ **What we will do**

- Create web pages using HTML
- Add a consistent style using CSS
- Add computer code using JavaScript
- Add static data pages
- We will fetch data using Http
- We will fetch data using AppML -> skip
- We will fetch data using SQL

❏ We will create a simple company web site. *Try it!*

훈민정음 서문 -> " 날마다 써야 언어는 느는 것임 "

나랏말싸미 中國에 달아
 文 字 字 와 로 서 르 수 못 디 아 니
 이 런 전 초 로 어 린 百 姓 이
 니 르 고 저 흥 배 이 셔 도
 무 촌 내 제 브 들 시 러 펴 디
 몬 흥 노 미 하 니 라
 내 이 톨 爲 하 야 어 옛 비 너 겨
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 메

I. Creating a Web Site (HTML)

In this chapter

- we will create a web site on your computer
- The web site will only be visible to you. Later you will learn how to make it public

Create a Home Page

- Create a new file named **index.html** *Try it!*
- Use Notepad (or any other text editor) to put the content in the file
- After you have saved the file, you can open it in your browser, and see how it runs

Add an About Page

- Create a new file named **about.html** *Try it!*

II. Adding Style (CSS)

In this chapter

- Create a CSS style sheet for the site
- Add a link to the style sheet in our pages

Create a CSS Style Sheet

- Create a new file named **site.css** *Try it!*

Edit the Home Page

- Edit the file **index.html**
- Add a link to a style sheet, and a `<div id="main">` element to define a “section” in the content. *Try it!*

Edit the About Page

- Do the same changes in **about.html** *Try it!*

III. Adding Code (JavaScript)

In this chapter

- Create some computer code (JavaScript)
- Add a link to the script in your pages

Create JavaScript

- Create a new file named **script.js**

```
document.getElementById("footo1").innerHTML =  
"<p>&copy; " + new Date().getFullYear() + " W3Schools. All rights reserved.</p>";
```

Edit the Home Page

- Edit the file **index.html** *Try it!*

Edit the About Page

- Do the same changes in **about.html** *Try it!*

IV. Adding a Data Page

In this chapter

- Add a data page to the web site

Edit the Style Sheet

- Edit your style sheet **site.css** *Try it!*

Create a Data Page

- Create a new file named **Customers.html** *Try it!*

V. Adding Navigation

In this chapter

- Add a navigation menu

Add a Navigation Menu

- Edit the JavaScript file **script.js** *Try it!*

Edit The Style Sheet

- Edit your style sheet **site.css** *Try it!*

Edit the Home Page

- Edit your home page **index.html** *Try it!*

Edit All Pages

- Add the navigation element to the other pages (**Customers.html** and **about.html**)

VI. Fetching Data with HTTP

In this chapter

- Fetch data from a text file using AJAX

The Text File

- Is stored on our web server *Try it!*

Change the Customers Page to use AJAX

- Change the file **Customers.html** *Try it!*

VIII. Data as a Service (DaaS)

In this chapter (DaaS)

- Fetch dynamic data from a web server running SQL
- Using a PHP Server Running MySQL *Try it!*
 - XMLHttpRequest reads data from “Customers_MYSQL.php”
 - Customers_MySQL.php fetches data from a “live” database
- Using an ASP.NET Server Running SQL Server

IX. Fetching Data with SQL

❏ In this chapter (Fetching Data with SQL)

- ❏ Create server pages
- ❏ Server Running PHP and MySQL *Try it!*

❏ Cross-Site HTTP Requests

- Requests for data from a different server (than the requesting page)
 - Many pages load css, images, or scripts from different servers
- In the PHP example,
 - Added to allow access to the page from a cross-site

```
header("Access-Control-Allow-Origin: *");
```