

# Syllabus

## Introduction to Internet and Web



부산대학교 정보·의생명 공학대학  
정보컴퓨터공학부



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# Basic Information

## Course

- Title: Introduction to Internet and Web
- Code: CB35535
- Section: 059, 060, 061
- Credit-Theory-Practice: 3.0-3.0-0.0

## Lecturer

- |                                       |                                       |
|---------------------------------------|---------------------------------------|
| ▪ Donghyun Kwon (059)                 | ▪ SungKi Choi (060, 061)              |
| ▪ Office: 313-411                     | ▪ Office: 313-316                     |
| ▪ Tel: 051-510-7338                   | ▪ Tel: 051-510-2875                   |
| ▪ Email: kwondh@pusan.ac.kr           | ▪ Email: view88@pusan.ac.kr           |
| ▪ Office Hours: 13:00 to 18:00 Friday | ▪ Office Hours: 13:00 to 18:00 Friday |

# Course Objectives & Description

## Course Objectives

- Understanding the history and basic structure of the Internet and the web
- Understanding client-side programming through learning HTML/CSS/JavaScript
- Increase problem solving ability using Open API utilization

## Course Description

- Internet-based web services play a very important role in implementing platform independent services. In this course, we will understand the basic structure of the Internet and the web and learn client-side programming. It focuses on understanding the basic syntax of HTML / CSS / JavaScript. In latter part of this course, we will build a simple web server using Node.js and use the web API. This confirms the various possibilities of using web services.

# What is HTML?

## ❖ HTML is the standard markup language for creating Web pages.

- HTML stands for Hyper Text Markup Language
- HTML describes the structure of a Web page
- HTML consists of a series of elements
- HTML elements tell the browser how to display the content
- HTML elements are represented by tags
- HTML tags label pieces of content such as "heading", "paragraph", "table", and so on
- Browsers do not display the HTML tags, but use them to render the content of the page

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

<h1>My First Heading</h1>
<p>My first paragraph.</p>

</body>
</html>
```

# What is CSS?

## ❖ CSS stands for Cascading Style Sheets

- CSS describes how HTML elements are to be displayed on screen, paper, or in other media
- CSS saves a lot of work. It can control the layout of multiple web pages all at once
- External stylesheets are stored in CSS files

```
body {  
  background-color: lightblue;  
}  
  
h1 {  
  color: white;  
  text-align: center;  
}  
  
p {  
  font-family: verdana;  
  font-size: 20px;  
}
```

# What is JavaScript?

## ❖ JavaScript is the programming language of HTML and the Web.

- JavaScript Can Change HTML Content
- JavaScript Can Change HTML Attribute Value
- JavaScript Can Change HTML Styles (CSS)
- JavaScript Can Show/Hide HTML Elements

```
<html>
<body>

<p id="demo"></p>

<script>
document.getElementById("demo").innerHTML = "Hello World!";
</script>

</body>
</html>
```

# Textbooks and References

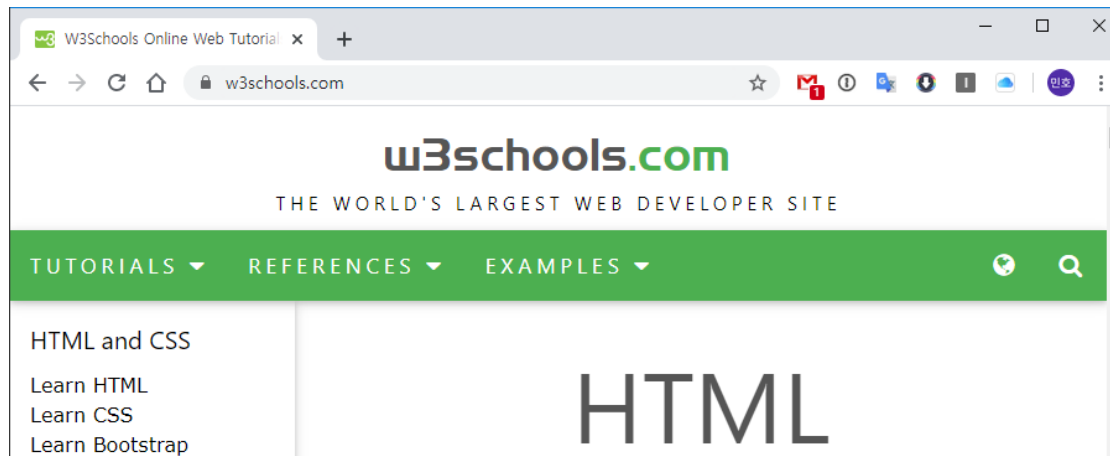
## Required Textbooks

- 고경희 저, *Do it! HTML5+CSS3 웹 표준의 정석* 2판, 지스퍼블리싱, 2019.12
- 김경민, *문제해결을 통한 웹 프로그래밍 입문*, 이한 미디어, 2019.10



## References

- W3Schools Online Web Tutorials - <https://www.w3schools.com>





# Tools: Visual Studio Code

Code editing.  
Redefined.

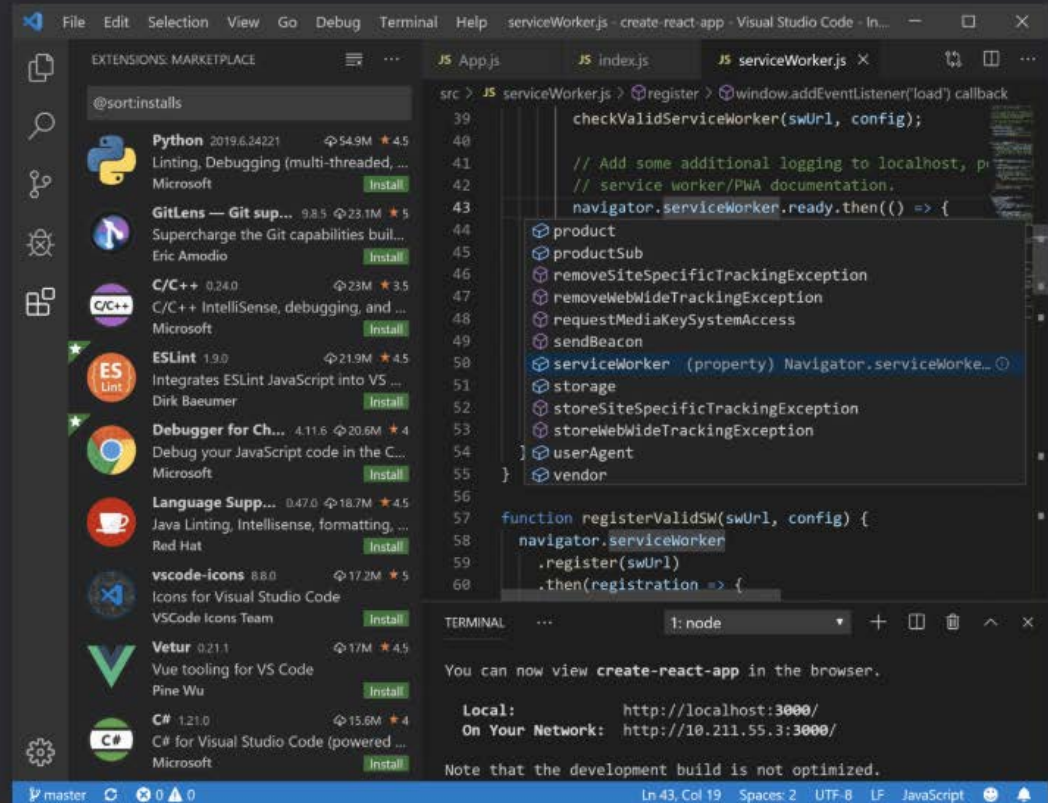
Free. Built on open source. Runs everywhere.

Download for Windows

Stable Build

Other platforms and Insiders Edition

By using VS Code, you agree to its  
[license](#) and [privacy statement](#).



# Tools: Chrome DevTools

The image shows a browser window displaying the Chrome DevTools website on the left and the Chrome DevTools interface on the right.

**Left Panel (Website):**

- URL: `developers.google.com/web/tools/chrome-devtools`
- Page Title: **Tools for Web Developers**
- Navigation: Home, Chrome DevTools, Lighthouse, Puppeteer, Workbox, Chrome User Experience Report
- Content: "Didn't make the #ChromeDevSummit this year? Catch all the content (and more!) in the [Chrome Dev Summit 2019](#) playlist on our [Chrome Developers YouTube Channel](#)."
- Section: **Chrome DevTools**
- Text: "Chrome DevTools는 Google Chrome에 내장되어있는 웹 저작 및 디버깅 도구셋입니다. DevTools를 이용하여 사이트를 반복하고, 디버깅하고, 프로파일링할 수 있습니다."
- Note: "Note: 많은 DevTools 문서는 최신 Chrome 피처를 제공하는 [Chrome Canary](#)를 기반으로 작성했습니다."
- Section: **Chrome DevTools 열기**
- List:
  - Chrome 메뉴에서 **도구 더보기 > 개발자 도구** 선택
  - 페이지 요소를 오른쪽 클릭하고 검사를 선택
  - **키보드 단축키** `Ctrl+Shift+I` (Windows) `Cmd+Opt+I` (Mac)를 사용할 수 있습니다.

**Right Panel (Chrome DevTools Interface):**

- Elements: Shows the HTML structure of the page, including `<body>` and `<div>` elements.
- Styles: Shows the CSS styles applied to the selected element, including `background-color`, `color`, `font-size`, `margin`, and `padding`.
- Console: Shows the output of the page, including the `gapl_processed=true` message.

# Weekly Schedule of Classes

주차 (Week No.)	강의 및 실험 실기 내용
제 1주 (Week 1)	Introduction to Internet: Part. 1
제 2주 (Week 2)	Introduction to Internet: Part. 2 / Introduction to WWW
제 3주 (Week 3)	Introduction to HTML5: Part. 1
제 4주 (Week 4)	Introduction to HTML5: Part. 2
제 5주 (Week 5)	Introduction to CSS: Part. 1
제 6주 (Week 6)	Introduction to CSS: Part. 2
제 7주 (Week 7)	HTML/CSS Advanced
제 8주 (Week 8)	WoT and HTTP Open API / Term Project Announcement
제 9주 (Week 9)	Node.js and HTTP Open API
제 10주 (Week 10)	Introduction to Javascript: Part. 1
제 11주 (Week 11)	Introduction to Javascript: Part. 2
제 12주 (Week 12)	Introduction to Javascript: Part. 3
제 13주 (Week 13)	Introduction to Javascript: Part. 4
제 14주 (Week 14)	Advanced Web Development
제 15주 (Week 15)	Term Project Presentation
제 16주 (Week 16)	Final Exam

# Evaluation and Grading

## ❖ Attendance(10%)

- In case of absence more than one-third, you will receive F grade.

## ❖ Term Project(35%)

## ❖ Final Exam(40%)

## ❖ Assignments & Lab(15%)

**Students with disabilities can request an extension of the exam hour, and they can take exams by getting writing assistance or by using a computer.**

## ➤ Why Study HTML/CSS/JavaScript?

- **HTML** to define the content of web pages
- **CSS** to specify the layout of web pages
- **JavaScript** to program the behavior of web page