



# **Experiments 06**

## **JavaScript Basics**

**Open Source SW Development**  
**CSE22300**

# Node.js Install

- Node.js
  - <https://nodejs.org>



Node.js®는 **Chrome V8 JavaScript 엔진**으로 빌드된 JavaScript 런타임입니다. Node.js는 이벤트 기반, 논 블로킹 I/O 모델을 사용해 가볍고 효율적입니다. Node.js의 패키지 생태계인 npm은 세계에서 가장 큰 오픈 소스 라이브러리 생태계이기도 합니다.

Important **security release** for 8.x, please update now!

다운로드 - Windows (x64)

**6.11.4 LTS**

안정적, 신뢰도 높음

**8.6.0 현재 버전**

최신 기능

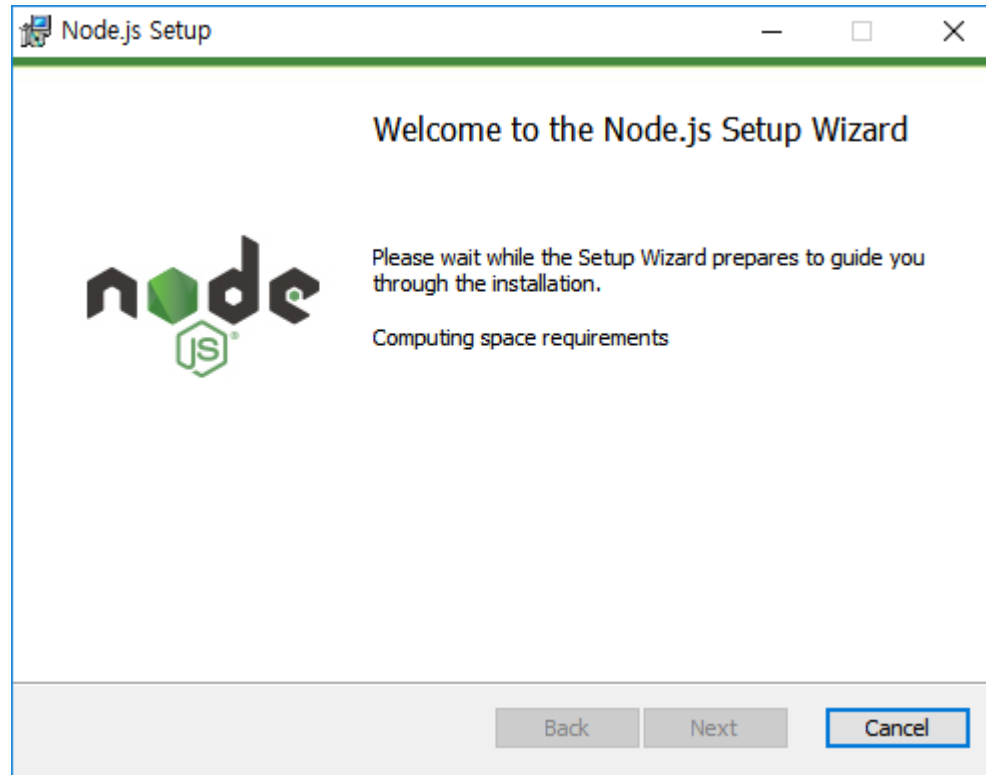
[다른 운영 체제](#) | [변경사항](#) | [API 문서](#)

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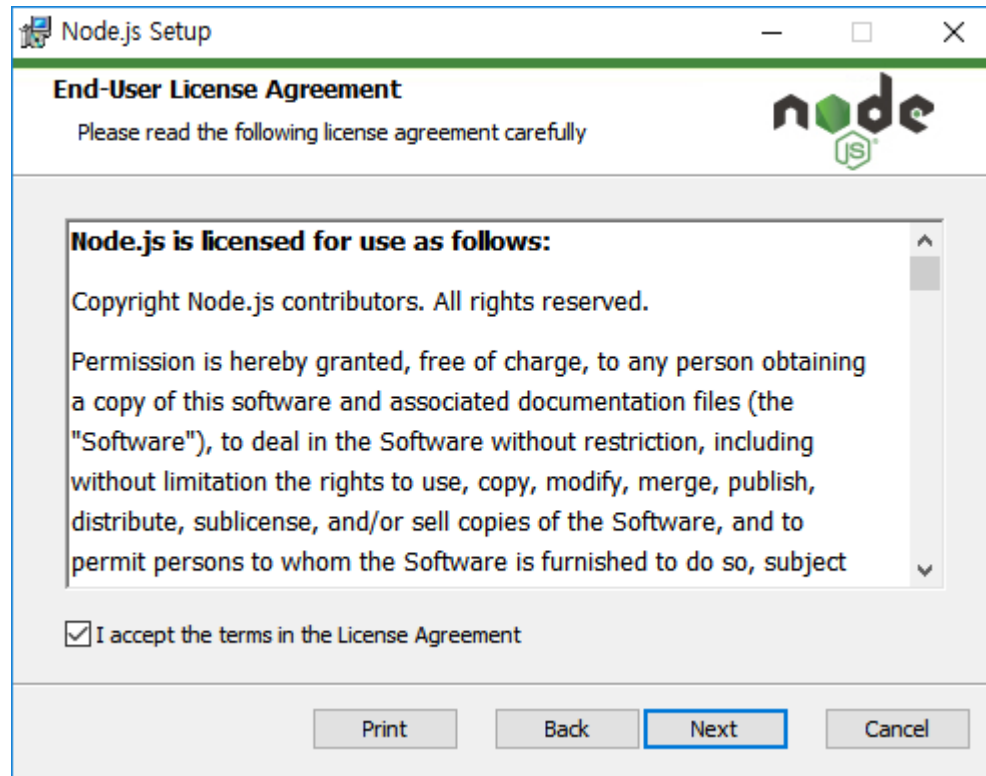
LTS 일정은 [여기서](#) 확인하세요.

# Node.js Install

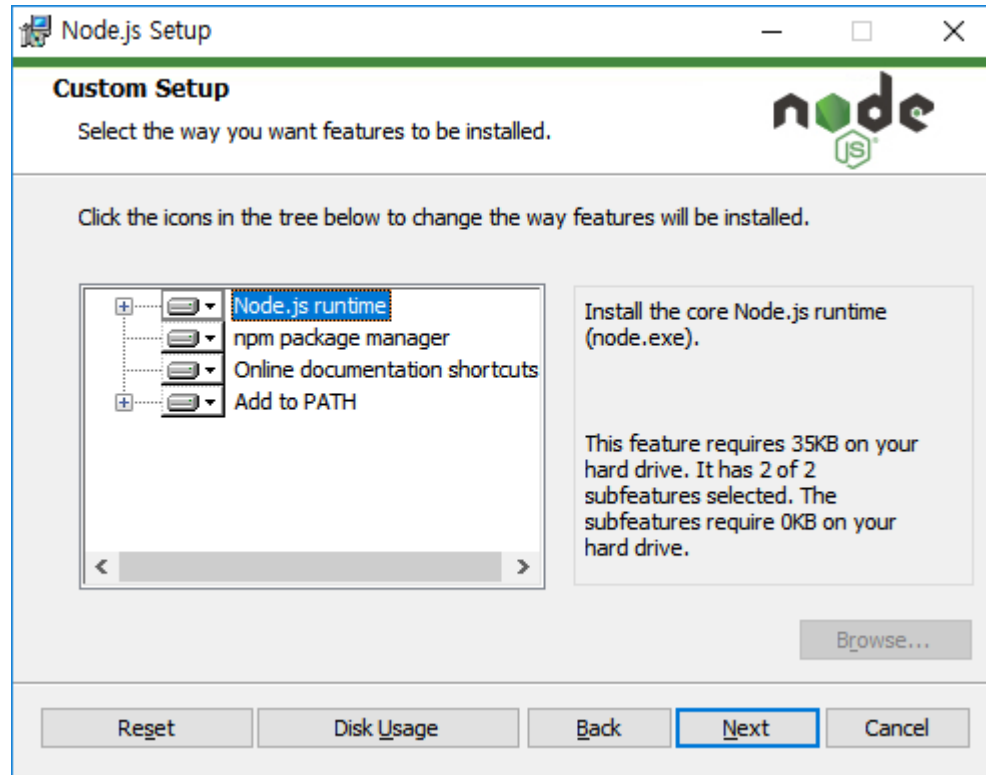
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# Node.js Install

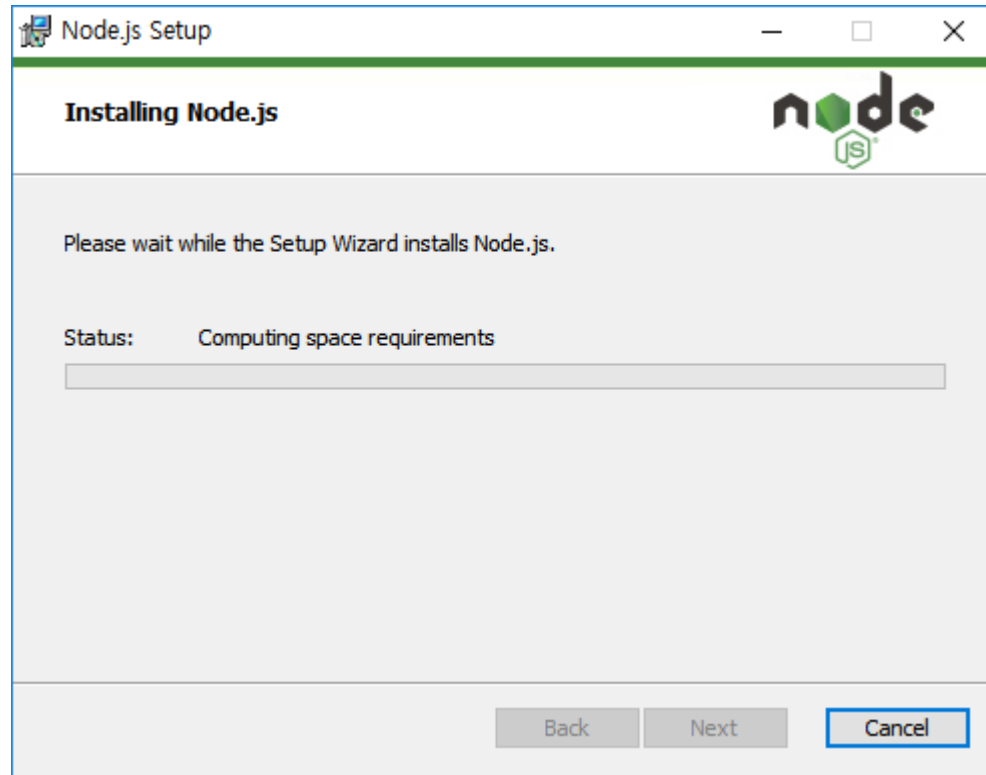


# Node.js Install



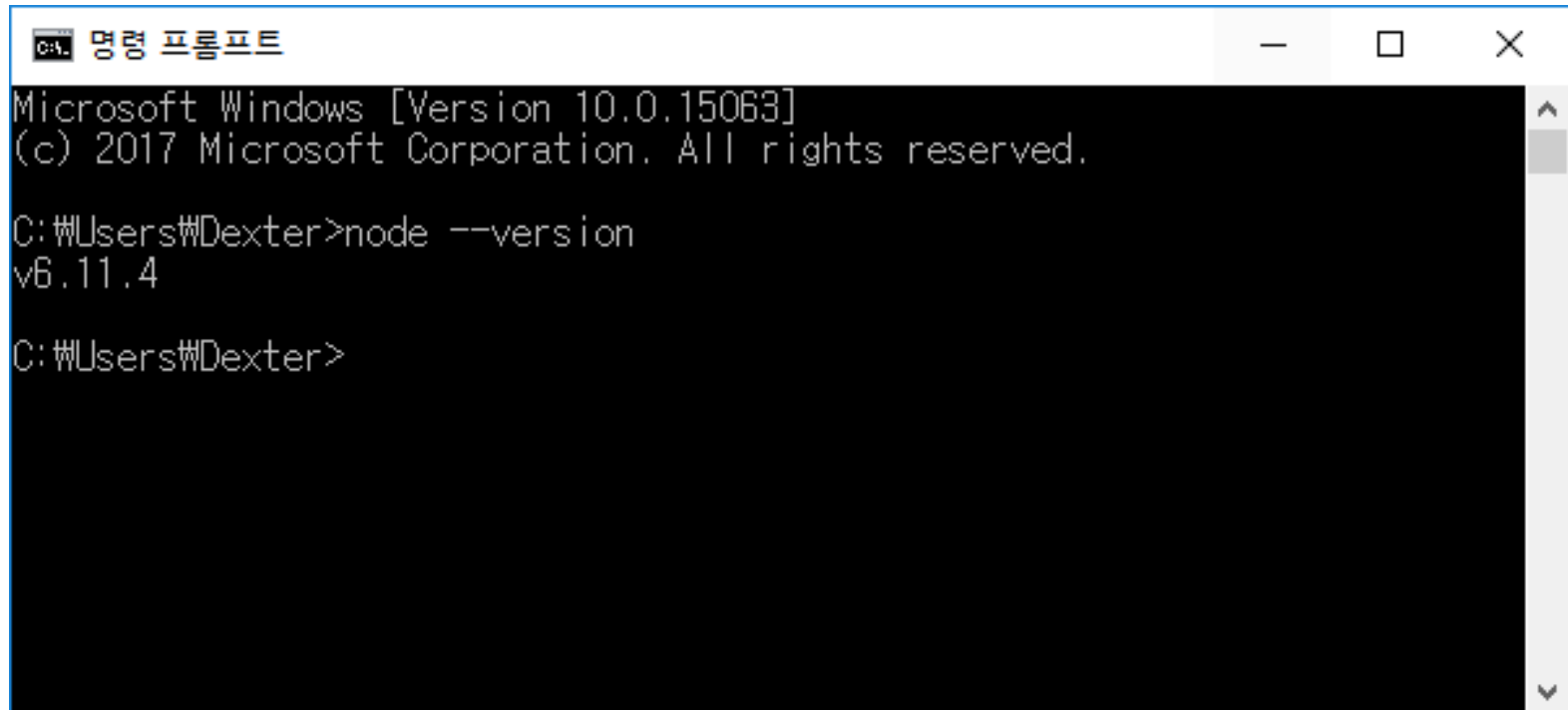
# Node.js Install

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# Node.js Install

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A screenshot of a Windows Command Prompt window. The title bar at the top reads '명령 프롬프트' (Command Prompt) with a small icon on the left and standard window controls (minimize, maximize, close) on the right. The main area of the window is black with white text. It displays the following text: 'Microsoft Windows [Version 10.0.15063]' followed by '(c) 2017 Microsoft Corporation. All rights reserved.' on the next line. Below that, the command 'C:\Users\Dexter>node --version' has been entered, and the output 'v6.11.4' is shown on the next line. The prompt 'C:\Users\Dexter>' is visible again on the following line, indicating the command has completed.

```
Microsoft Windows [Version 10.0.15063]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\Dexter>node --version
v6.11.4

C:\Users\Dexter>
```

# ATOM Install

- Atom
  - Open Source IDE Tool
  - <https://atom.io/>



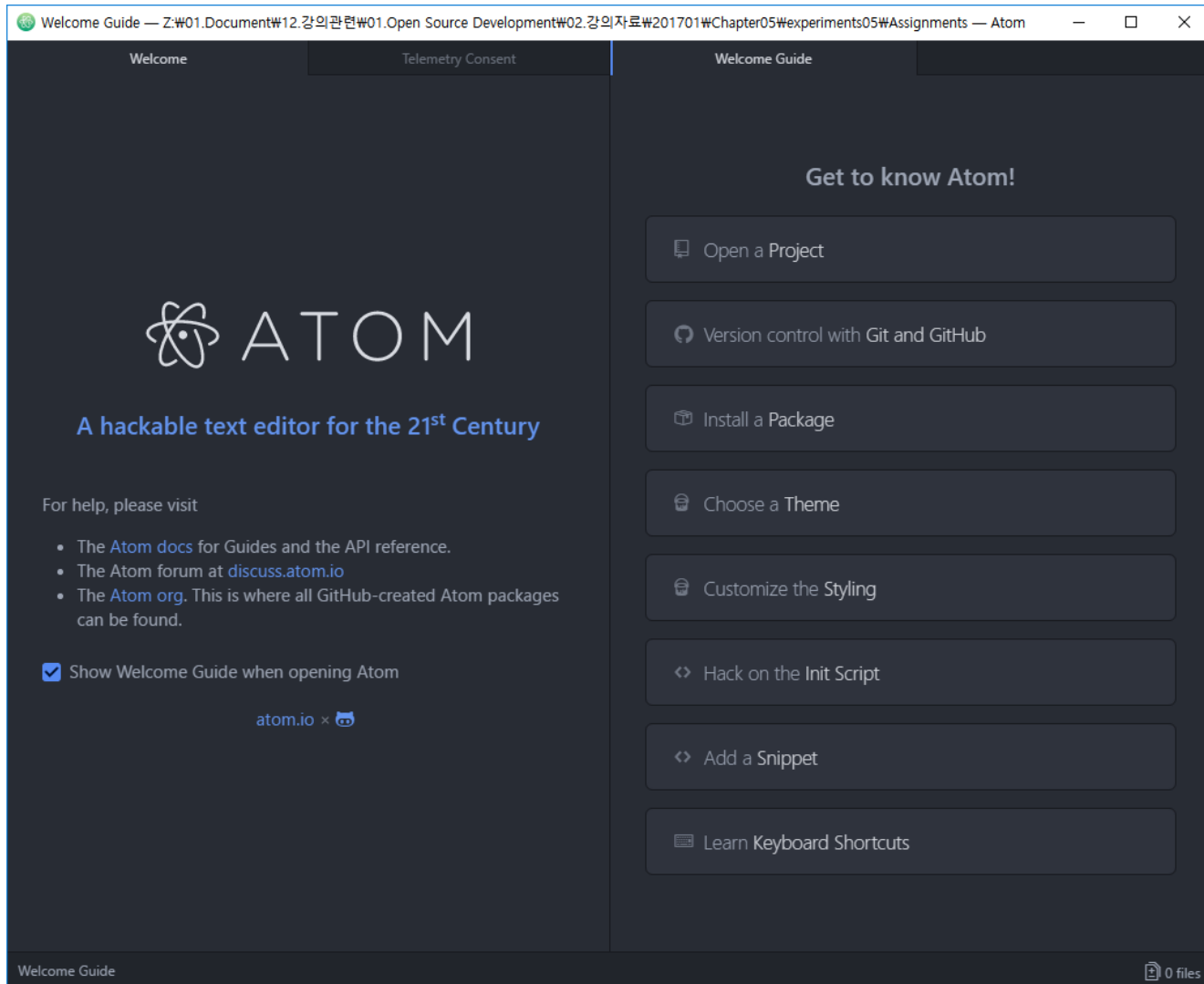


# ATOM Install

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# ATOM Install



# Repository

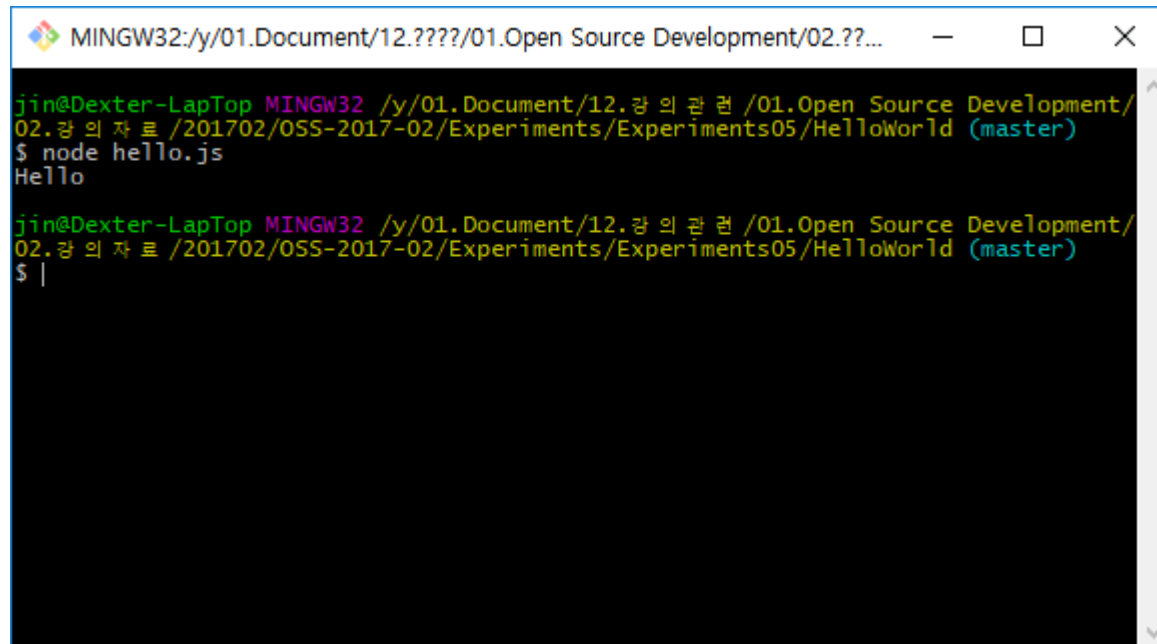
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- **Clone**
  - **git clone** <http://khuhub.khu.ac.kr/Prof.JinSeongwook/OSS-2017-02.git>
  - **Includes resources (Lecture Notes, Experiment Codes)**

# Assignment 0

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- **Hello World**
  - **Experiments05/HelloWorld**
  - **Open hello.html with browser**
  - **Run hello.js with “Git Bash Here”**
  - **Type “node hello.js”**



```
MINGW32:/y/01.Document/12.????/01.Open Source Development/02.??...  
jin@Dexter-LapTop MINGW32 /y/01.Document/12.강 의 관 련 /01.Open Source Development/  
02.강 의 자 료 /201702/OSS-2017-02/Experiments/Experiments05/HelloWorld (master)  
$ node hello.js  
Hello  
jin@Dexter-LapTop MINGW32 /y/01.Document/12.강 의 관 련 /01.Open Source Development/  
02.강 의 자 료 /201702/OSS-2017-02/Experiments/Experiments05/HelloWorld (master)  
$ |
```

# Assignment 0

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- **Tutorial**
  - **Arithmetic Operator**
  - **Assignment Operator**
  - **Bitwise Operator**
  - **Comparison Operator**
  - **Conditional Operator**
  - **For Statement**
  - **IfElse Statement**
  - **Logical Statement**
  - **Switch Statement**
  - **TypeOf Statement**
  - **Variables**
  - **While Statement**

# Assignment 1

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- **Multiplication Table (구구단)**
  - Use for statements

# Assignment 2

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- **Find maximum value and minimum value**
  - Use if statement

# Assignment 3

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- **Sort numbers in ascending orders**