



# **Experiments 07**

## **JavaScript**

**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

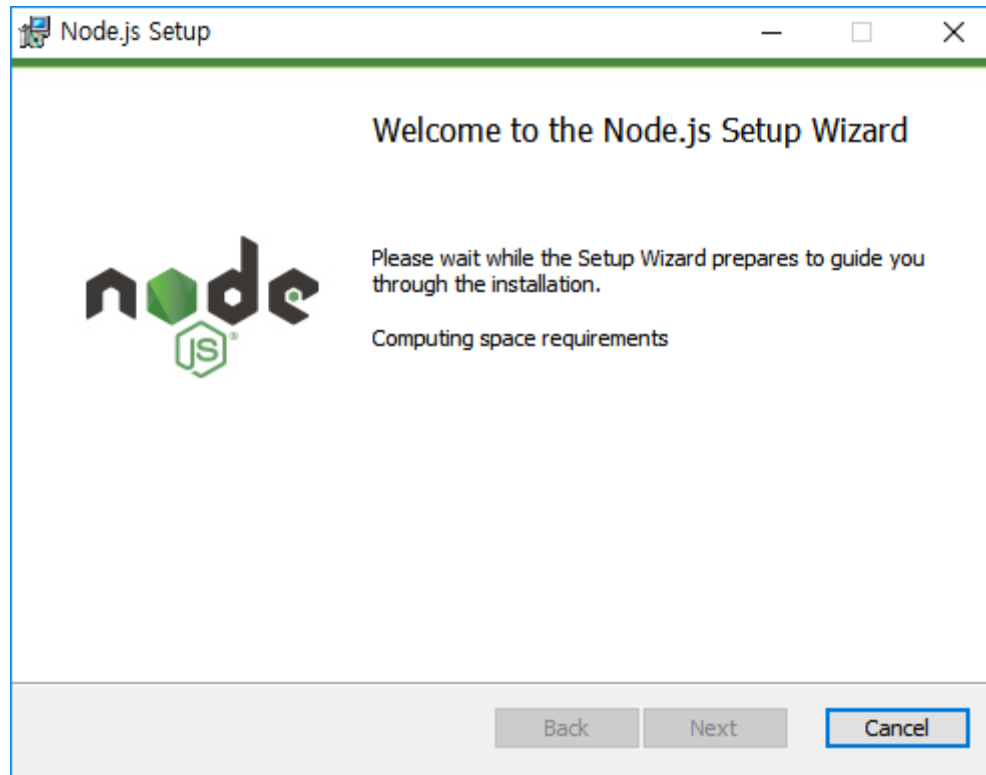
[다른 운영 체제](#) | [변경사항](#) | [API 문서](#)

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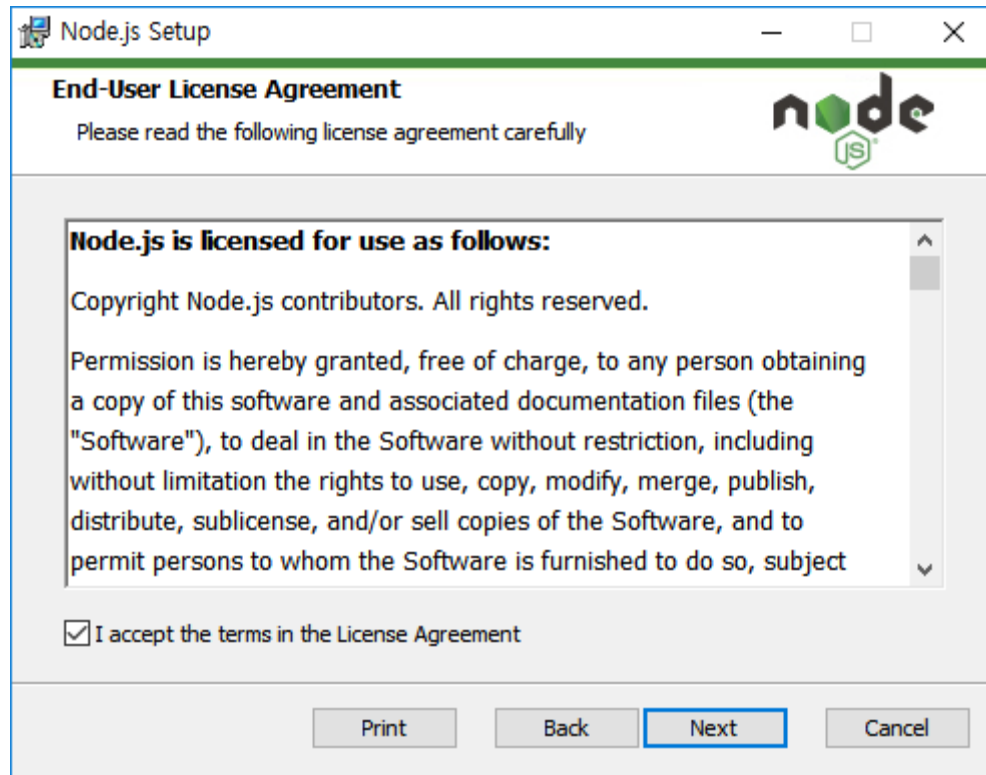
LTS 일정은 [여기서](#) 확인하세요.

# Node.js Install

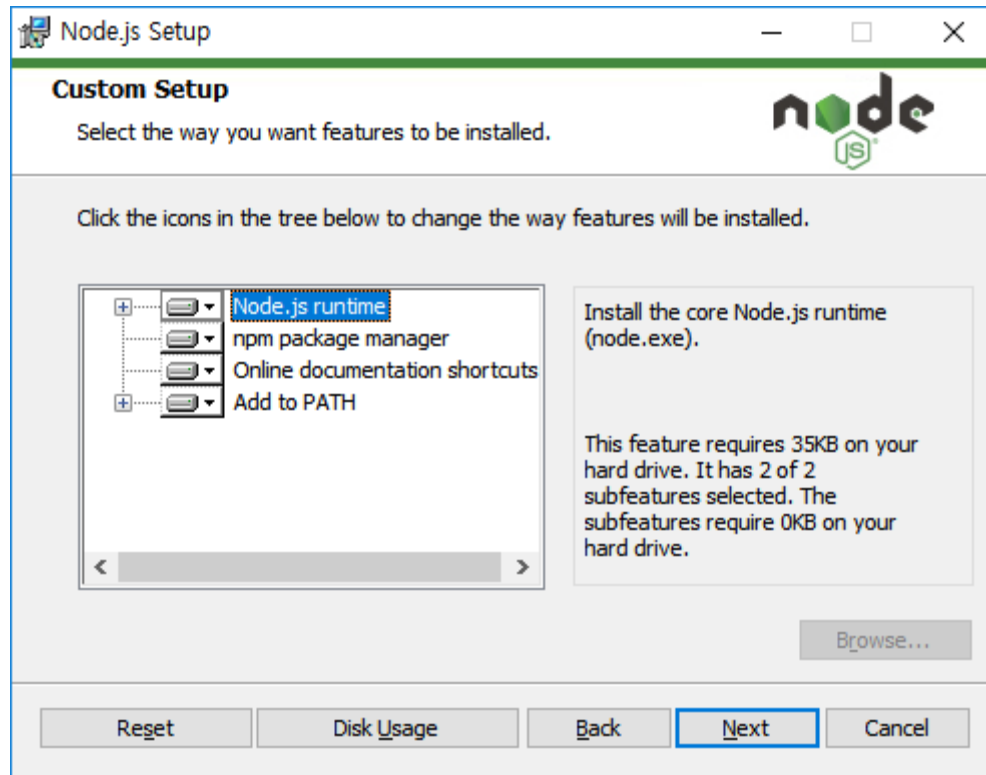
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# Node.js Install

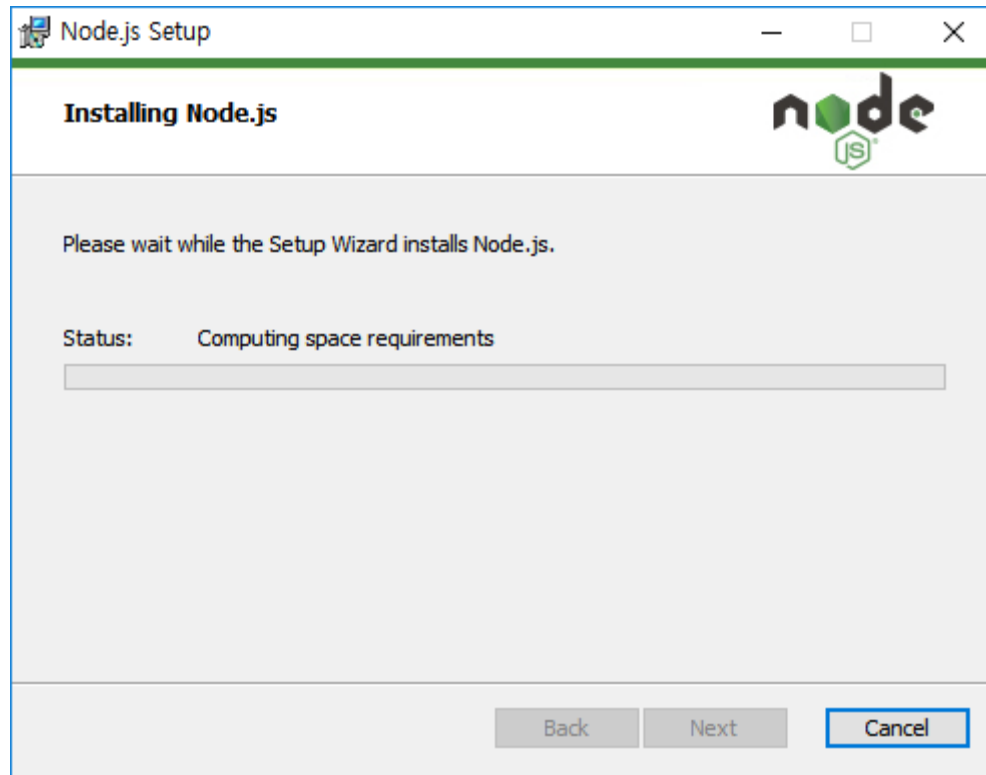


# Node.js Install



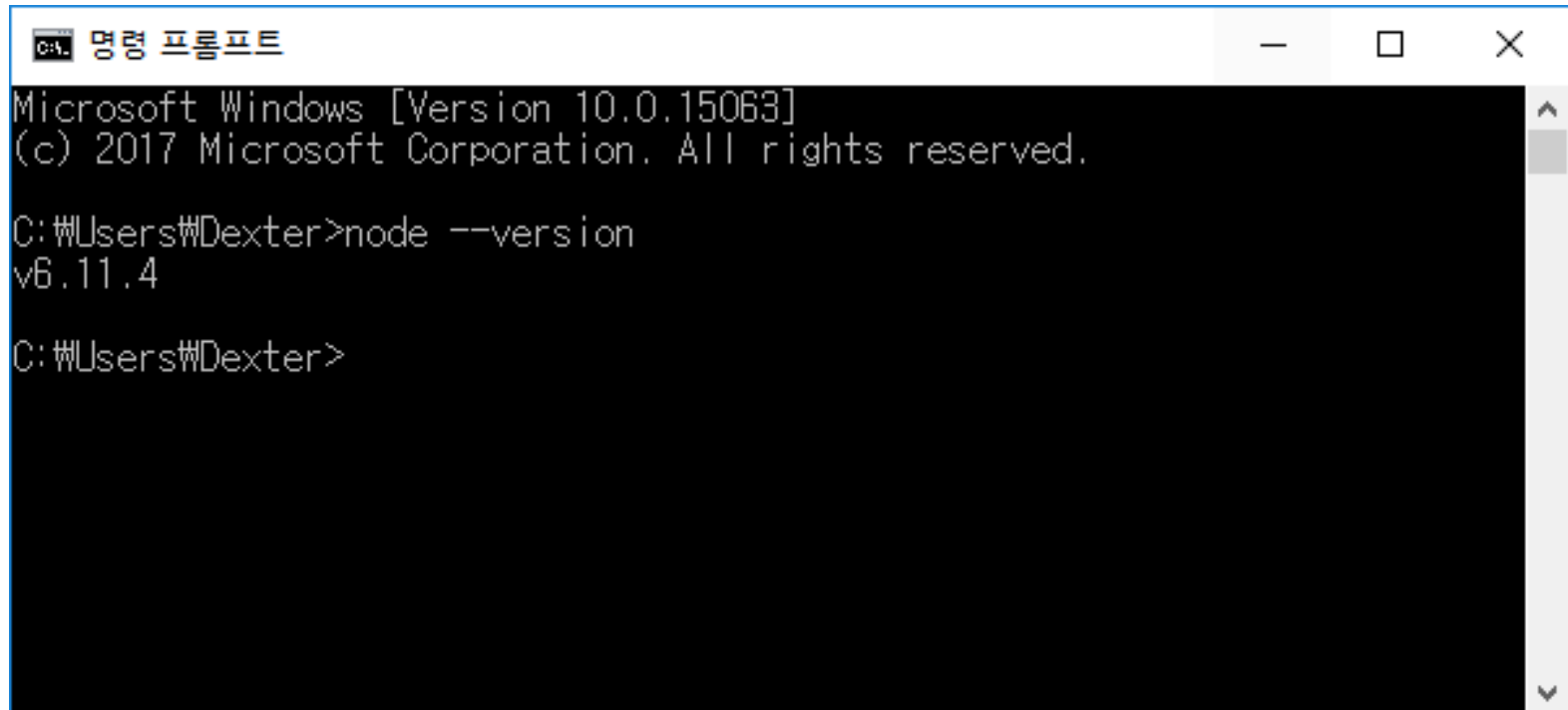
# Node.js Install

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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 is a prompt 'C:\Users\Dexter>' followed by the command 'node --version'. The output 'v6.11.4' is shown on the next line. Finally, another prompt 'C:\Users\Dexter>' is shown at the bottom. A vertical scrollbar is visible on the right side of the command prompt area.

```
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/>



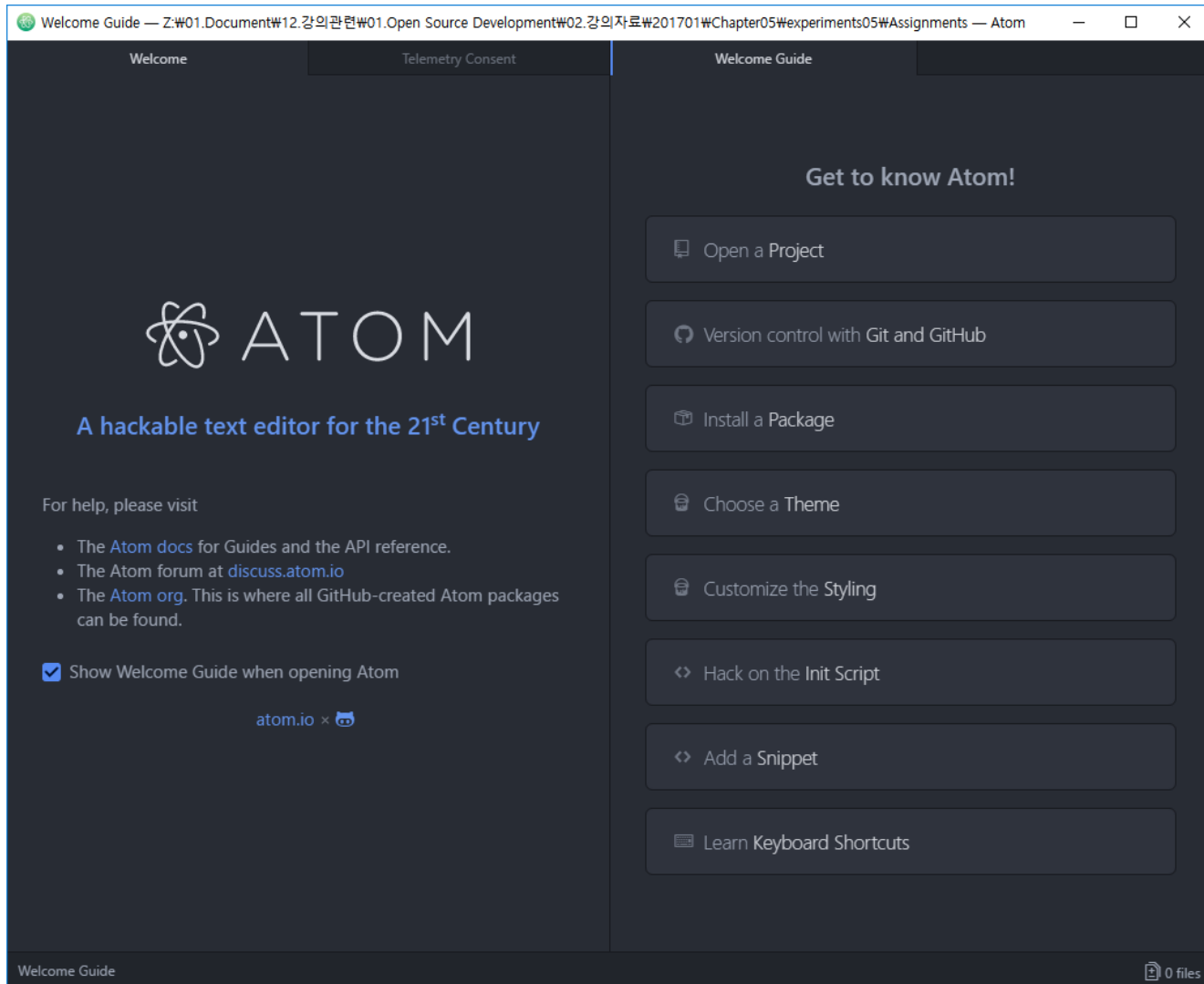


# ATOM Install

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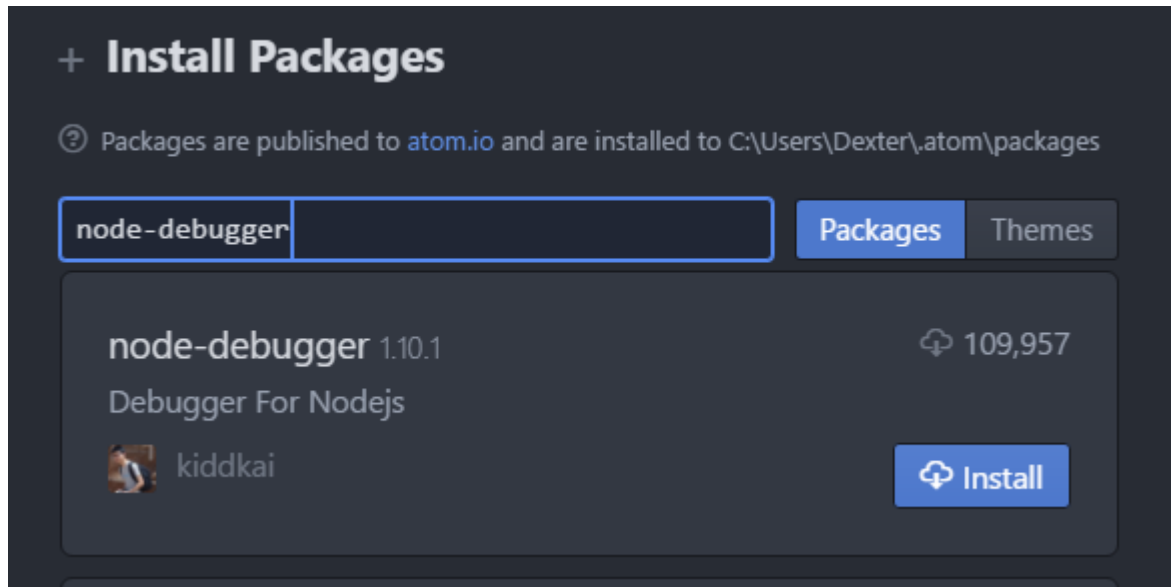
# ATOM Install



# Debugging

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- **Debugging**
  - node.js debugging
  - Install node-debugger package into atom
- **Install node-debugger package**



# Debugging

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- **How to debugging**

```
'node-debugger:start-resume' (F5)
'node-debugger:start-active-file' (ctrl-F5)
'node-debugger:stop' (shift-F5)
'node-debugger:toggle-breakpoint' (F9)
'node-debugger:step-next' (F10)
'node-debugger:step-in' (F11)
'node-debugger:step-out' (shift-F11)
'node-debugger:attach'
'node-debugger:toggle-debugger' (F12)
```

# Assignment 0

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- **Clone**
  - <http://khuhub.khu.ac.kr/Prof.JinSeongwook/OSS.git>
  - **Experiments**
- **Tutorial**
  - **Experiments07/Tutorial**
  - **Debugging**
  - **Array**
  - **Function**
  - **Number**
  - **Object**
  - **String**

# Assignment 1

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- **BookSorting**
  - **Experiments07/Assignment01**
  - **Sorts Book Object by alphabetical order**

# Assignment 2

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- **Implements slice function**
  - **Experiments07/Assignment02**
  - **Extracts a section of a string and returns a new string**

# Assignment 3

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- **Implements reverse function**
  - **Experiments07/Assignment03**
  - **Reverses the element of an array**