

# Configure for Lab

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**<https://github.com/swacademy/Vue.js>**

# Contents

- Web Browser
  - Google Chrome
  - Mozilla Firefox
- Editor or IDE
  - VSCode
- Node.js
- Git
- Vue.js devtools
- Vue-CLI

# Google Chrome Browser

- Google Chrome Browser
  - <https://www.google.com/chrome/>
- Mozilla Firefox
  - <https://www.mozilla.org/ko/>



# Editor or IDE

- VSCode

- <https://code.visualstudio.com/>

- Atom

- <https://atom.io/>

- SublimeText3

- <https://www.sublimetext.com/3>






# VSCode

- <https://code.visualstudio.com/Download>

## Download Visual Studio Code

Free and built on open source. Integrated Git, debugging and extensions.



↓ Windows

Windows 7, 8, 10

User Installer64 bit32 bit

System Installer64 bit32 bit

.zip64 bit32 bit

↓ .deb

Debian, Ubuntu

.deb64 bit

.rpm64 bit

.tar.gz64 bit

↓ .rpm

Red Hat, Fedora, SUSE

.deb64 bit

.rpm64 bit

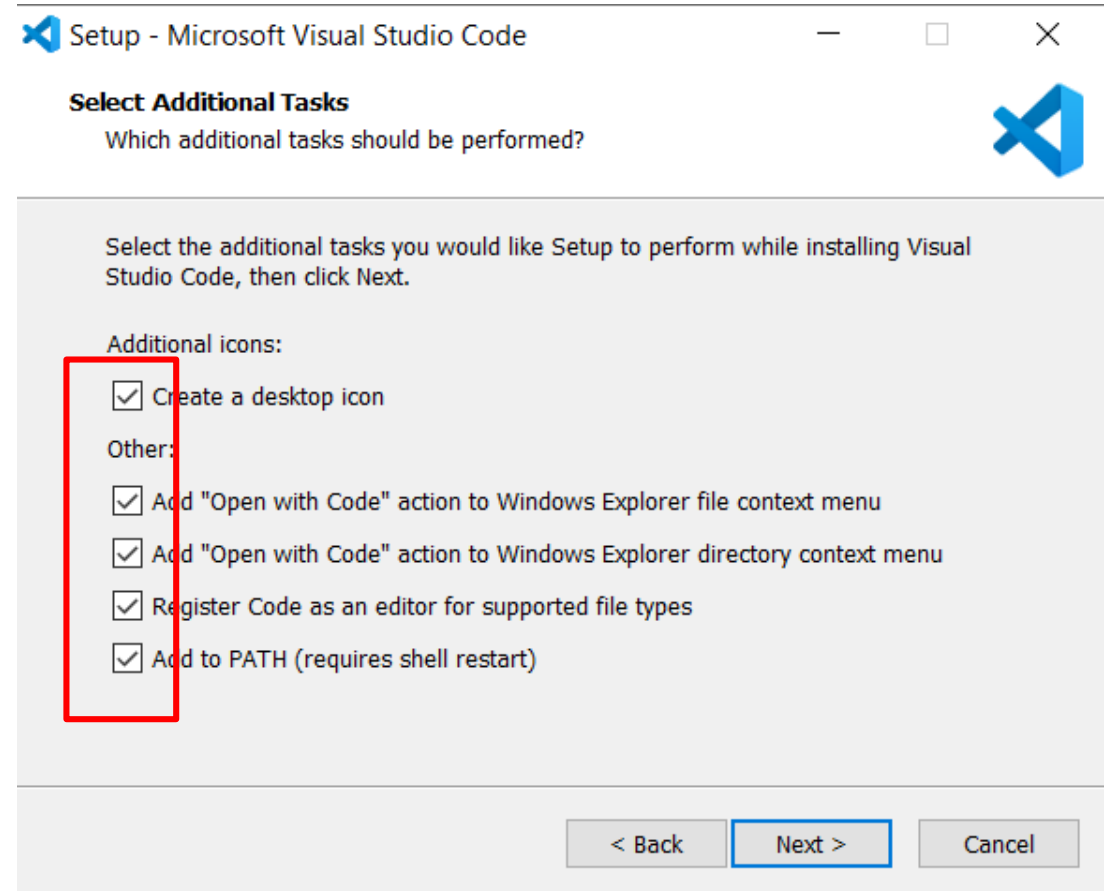
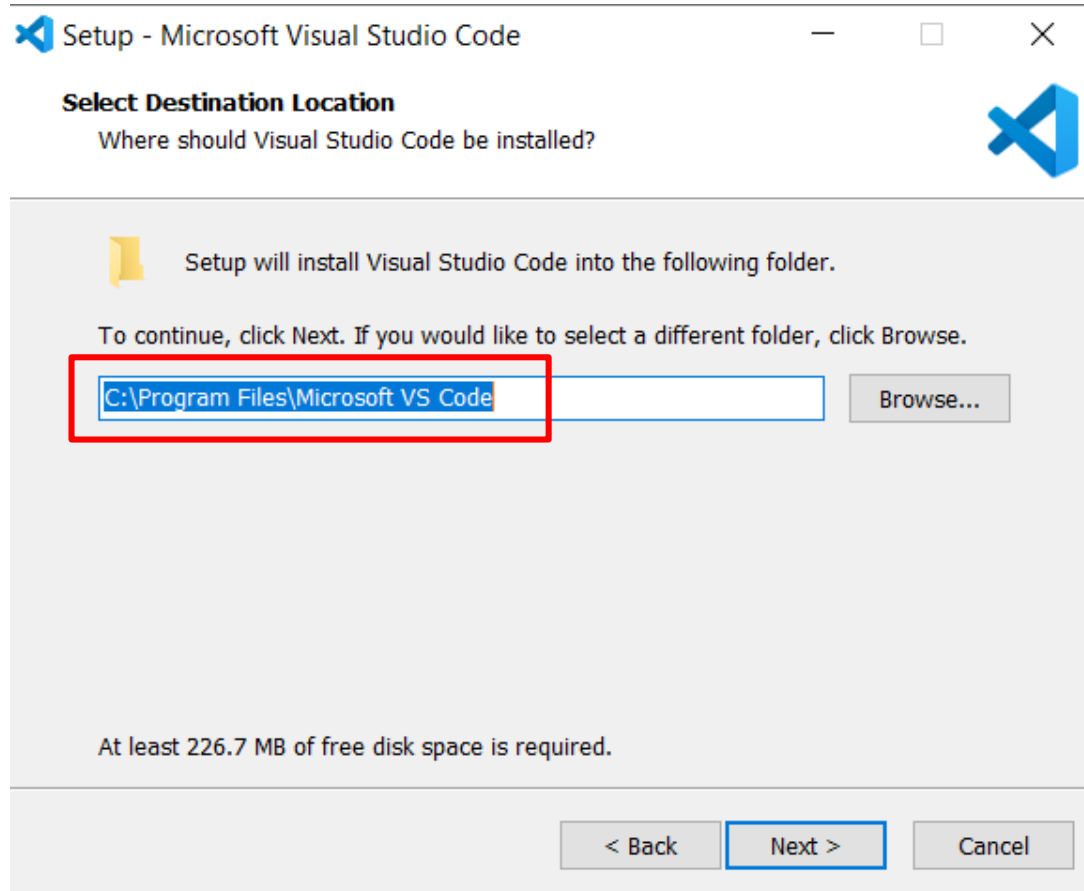
.tar.gz64 bit

↓ Mac

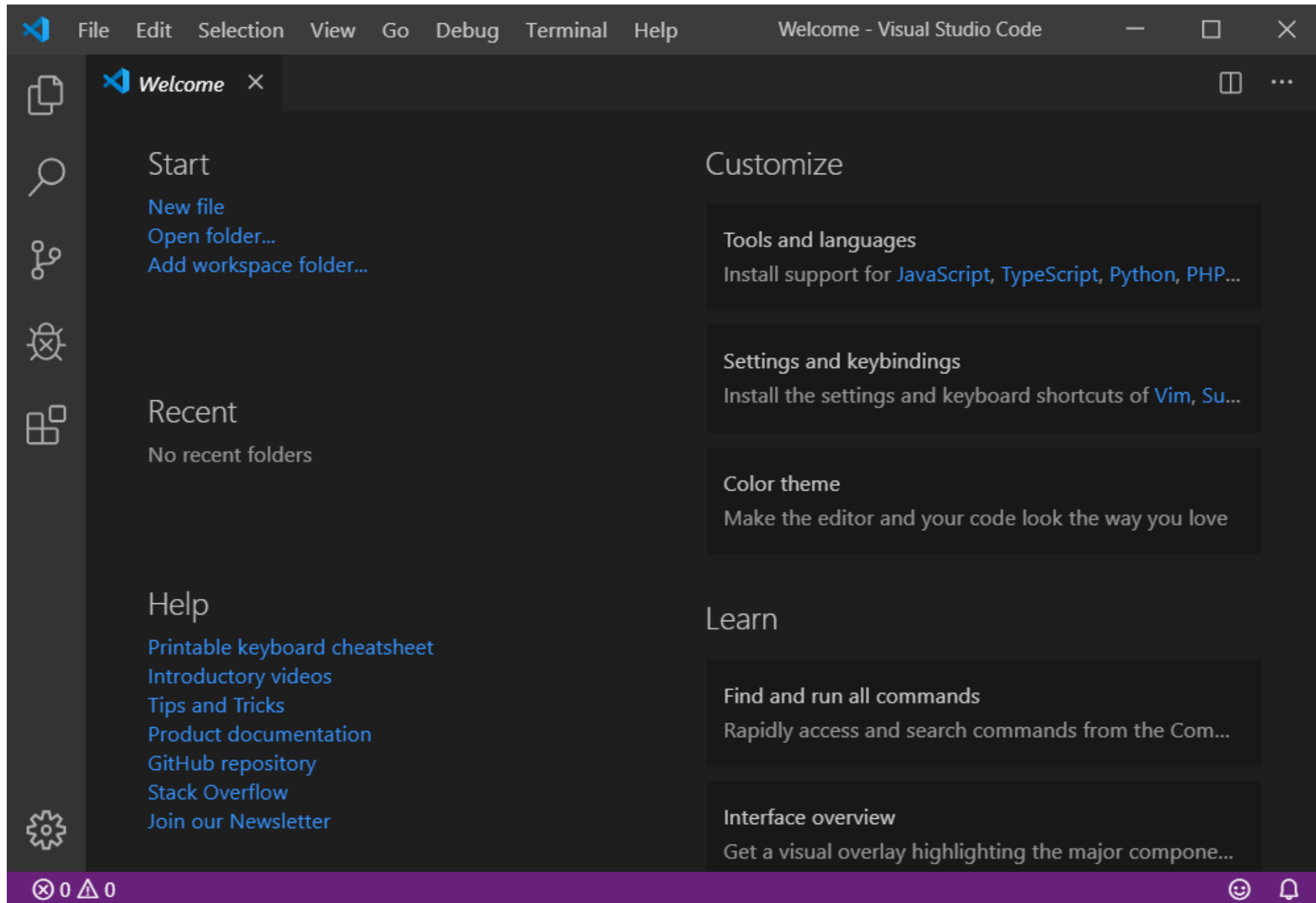
macOS 10.10+

Snap Store

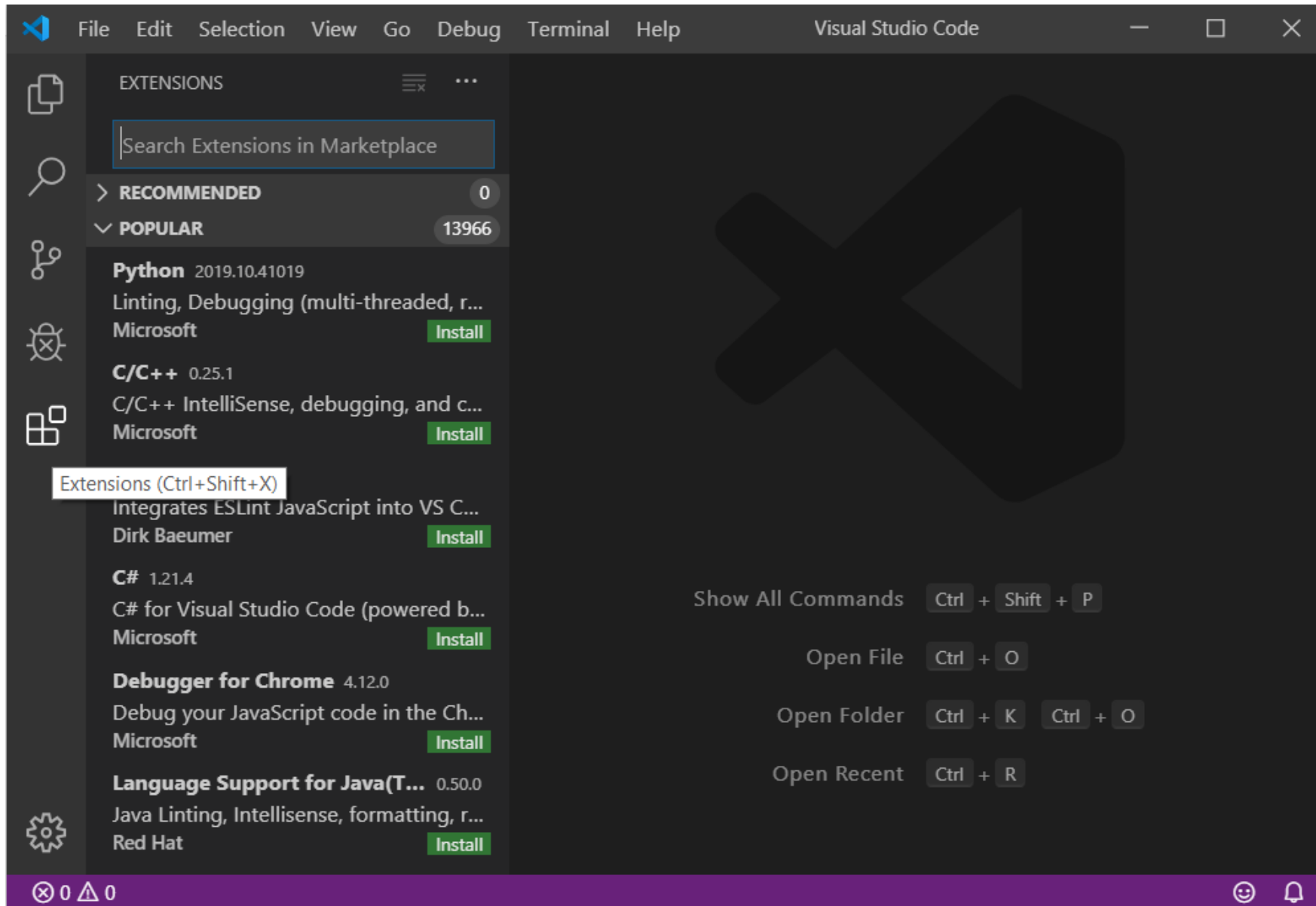
# VSCode (Cont.)



# VSCode (Cont.)



# VSCode Extensions





## VSCode Extensions (Cont.)

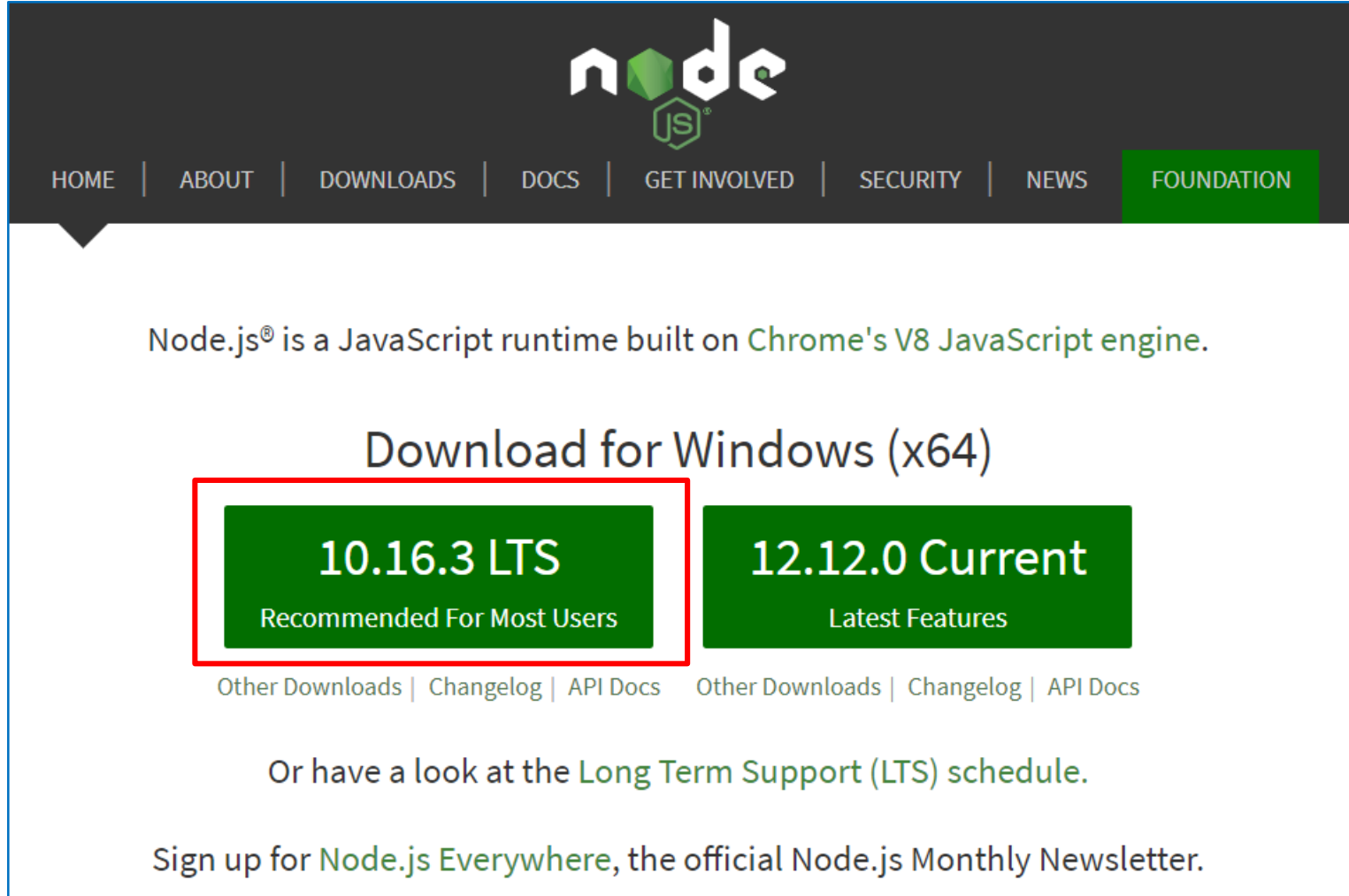
- Open in Browser
  - To open the current file in default browser.
- Htmltagwrap
  - Wraps selected code with HTML Tags
- Vetur
  - Vue.js code에 대한 문법 강조, 코드 자동완성, Debugging, Linting
- Vue Peek
  - Code 상에 작성되어 있는 Vue Component를 통해 해당 Component 파일을 열고 그 파일로 이동할 수 있는 기능
- Vue 2 Snippets
  - Vue Component 작성시 수기로 작성해야할 부분을 VSCode의 Plugin에서 자동완성

## VSCode Extensions (Cont.)

- Night Owl
  - VSCode color theme.
- Material Icon Theme
  - VSCode icon theme
- Live Server
  - Launch a development local Server with live reload feature for static & dynamic pages.
- ESLint
  - JavaScript code style, 문법 check 기능 제공
- Prettier
  - Code formatter
- Auto Close Tag
- Atom Keymap

# Node.js

- <https://nodejs.org/en/>



The screenshot shows the Node.js website homepage. At the top is a dark navigation bar with the Node.js logo and links for HOME, ABOUT, DOWNLOADS, DOCS, GET INVOLVED, SECURITY, NEWS, and FOUNDATION. The FOUNDATION link is highlighted in green. Below the navigation bar, a text block states: "Node.js® is a JavaScript runtime built on Chrome's V8 JavaScript engine." This is followed by a section titled "Download for Windows (x64)". Under this title are two green buttons: "10.16.3 LTS" with the subtext "Recommended For Most Users", and "12.12.0 Current" with the subtext "Latest Features". The "10.16.3 LTS" button is highlighted with a red border. Below these buttons are two identical links: "Other Downloads | Changelog | API Docs". Further down, a text block says: "Or have a look at the Long Term Support (LTS) schedule." At the bottom, another text block says: "Sign up for Node.js Everywhere, the official Node.js Monthly Newsletter."

node

HOME | ABOUT | DOWNLOADS | DOCS | GET INVOLVED | SECURITY | NEWS | FOUNDATION

Node.js® is a JavaScript runtime built on Chrome's V8 JavaScript engine.

Download for Windows (x64)

**10.16.3 LTS**  
Recommended For Most Users

**12.12.0 Current**  
Latest Features

Other Downloads | Changelog | API Docs    Other Downloads | Changelog | API Docs

Or have a look at the Long Term Support (LTS) schedule.

Sign up for Node.js Everywhere, the official Node.js Monthly Newsletter.

## Node.js (Cont.)


```
C:\Users\bluee>echo %PATH%  
C:\Program Files\Java\jdk1.8.0_221\bin;C:\Windows\system32;C:\Windows;C:  
\Windows\System32\Wbem;C:\Windows\System32\WindowsPowerShell\v1.0\;C:\Wi  
ndows\System32\OpenSSH\;C:\Program Files\apache-maven-3.6.2\bin;C:\Progr  
am Files\apache-tomcat-9.0.26\bin;;C:\Program Files\Microsoft VS Code\bi  
n;C:\Program Files\nodejs\;C:\Users\bluee\AppData\Local\Microsoft\Window  
sApps;C:\Program Files\Bandizip\;C:\Users\bluee\AppData\Roaming\npm
```

```
C:\Users\bluee>node --version  
v10.16.3
```

```
C:\Users\bluee>npm --version  
6.9.0
```


# Git


■ <https://git-scm.com/>

 **git** --fast-version-control

Git is a **free and open source** distributed version control system designed to handle everything from small to very large projects with speed and efficiency.


Git is **easy to learn** and has a **tiny footprint with lightning fast performance**. It outclasses SCM tools like Subversion, CVS, Perforce, and ClearCase with features like **cheap local branching**, convenient **staging areas**, and **multiple workflows**.






### About

The advantages of Git compared to other source control systems.




### Documentation

Command reference pages, Pro Git book content, videos and other material.




### Downloads

GUI clients and binary releases for all major platforms.



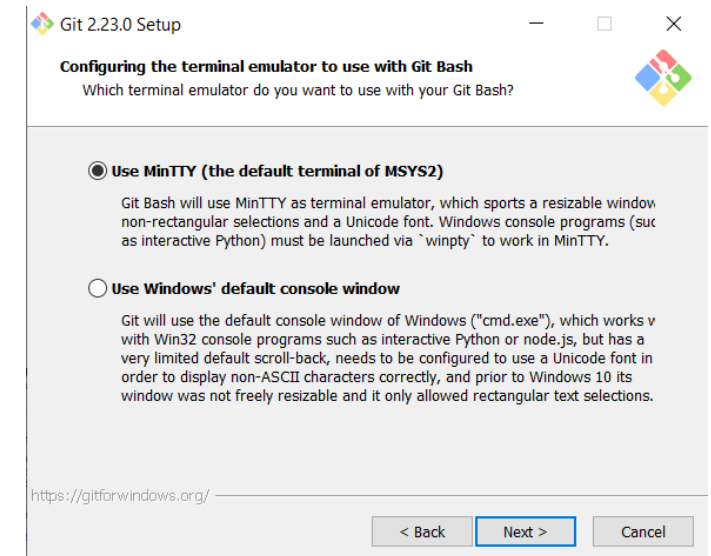
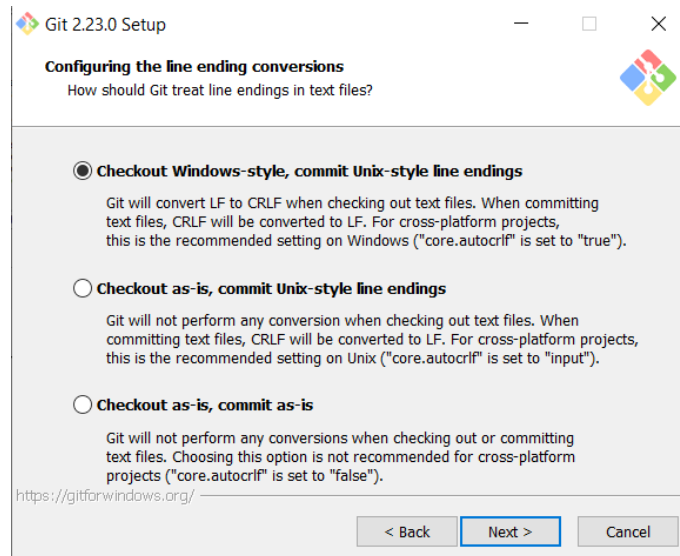
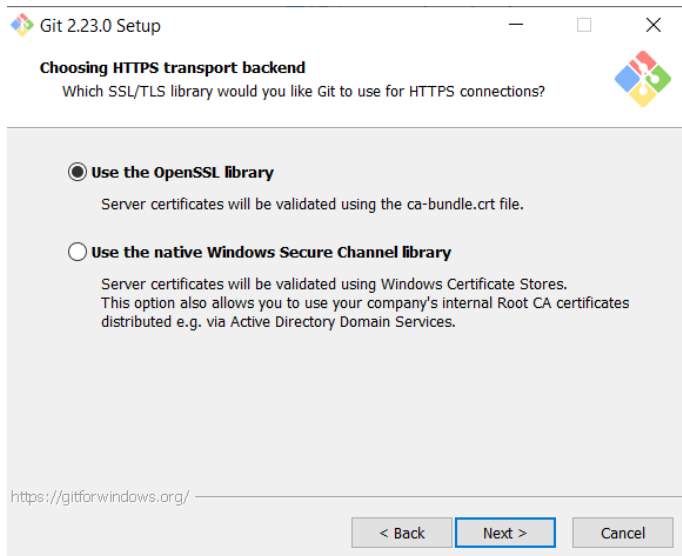
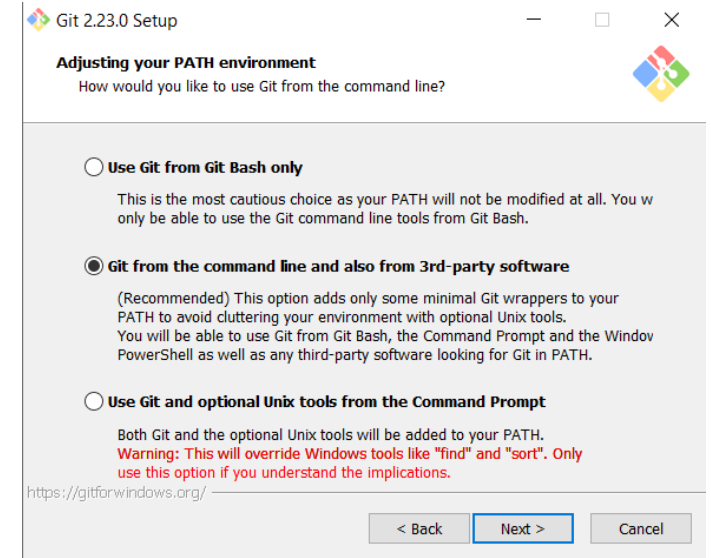
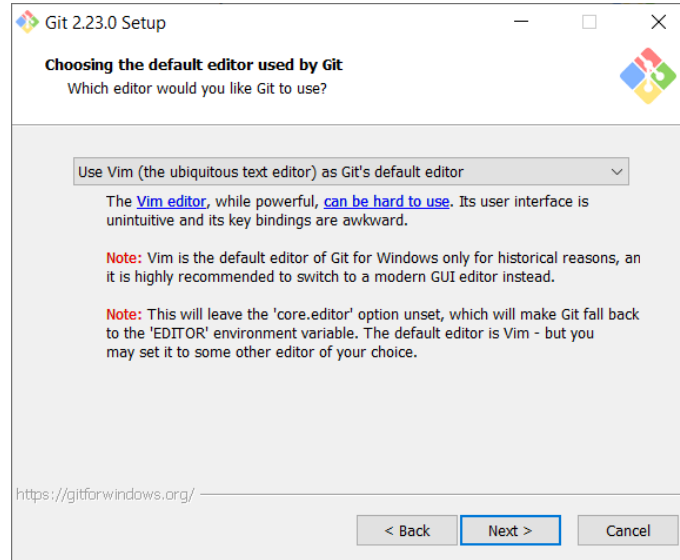
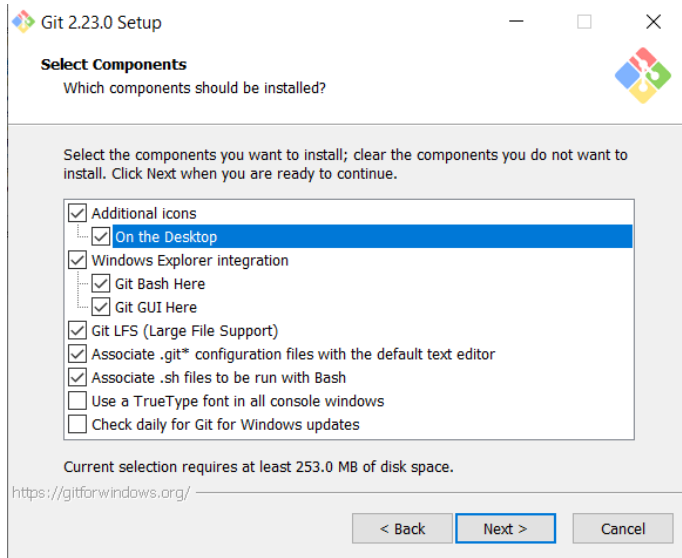
### Community

Get involved! Bug reporting, mailing list, chat, development and more.

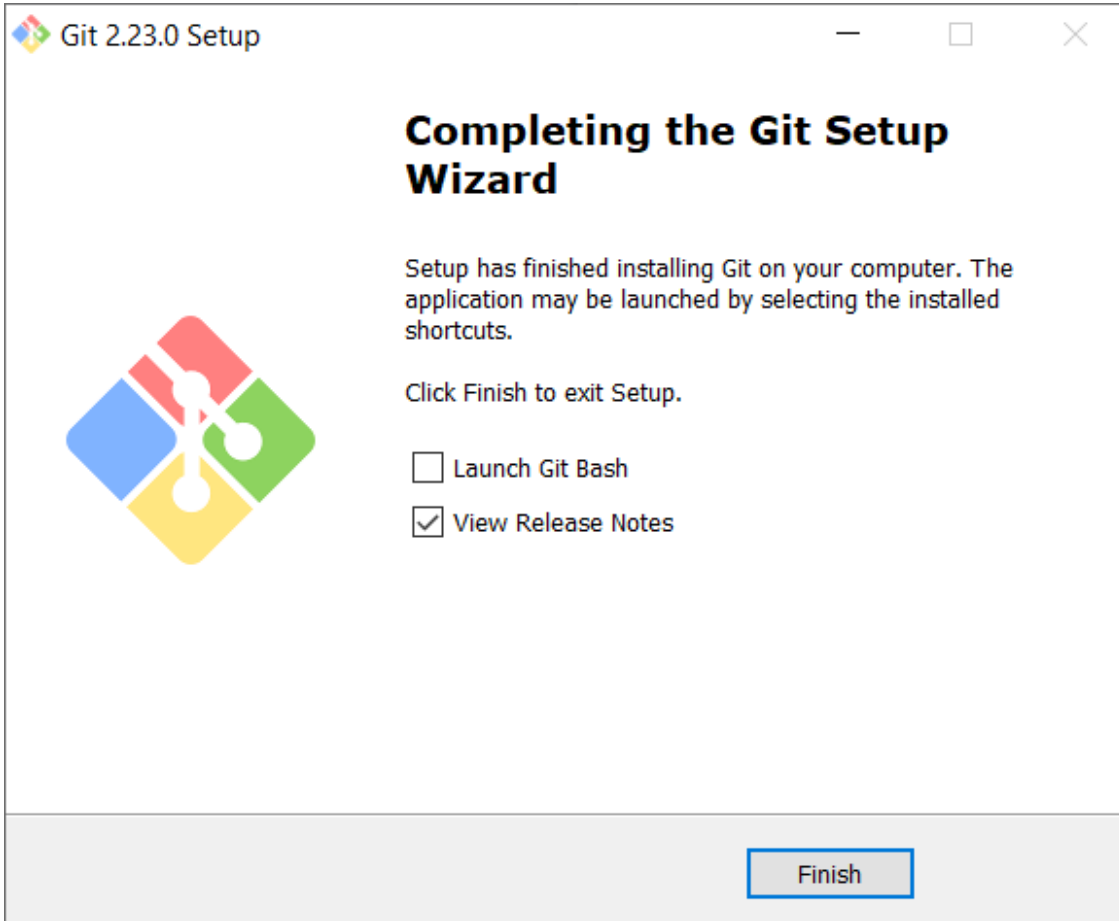


Latest source Release  
**2.23.0**  
Release Notes (2019-08-16)  
Download 2.23.0 for Windows

# Git (Cont.)



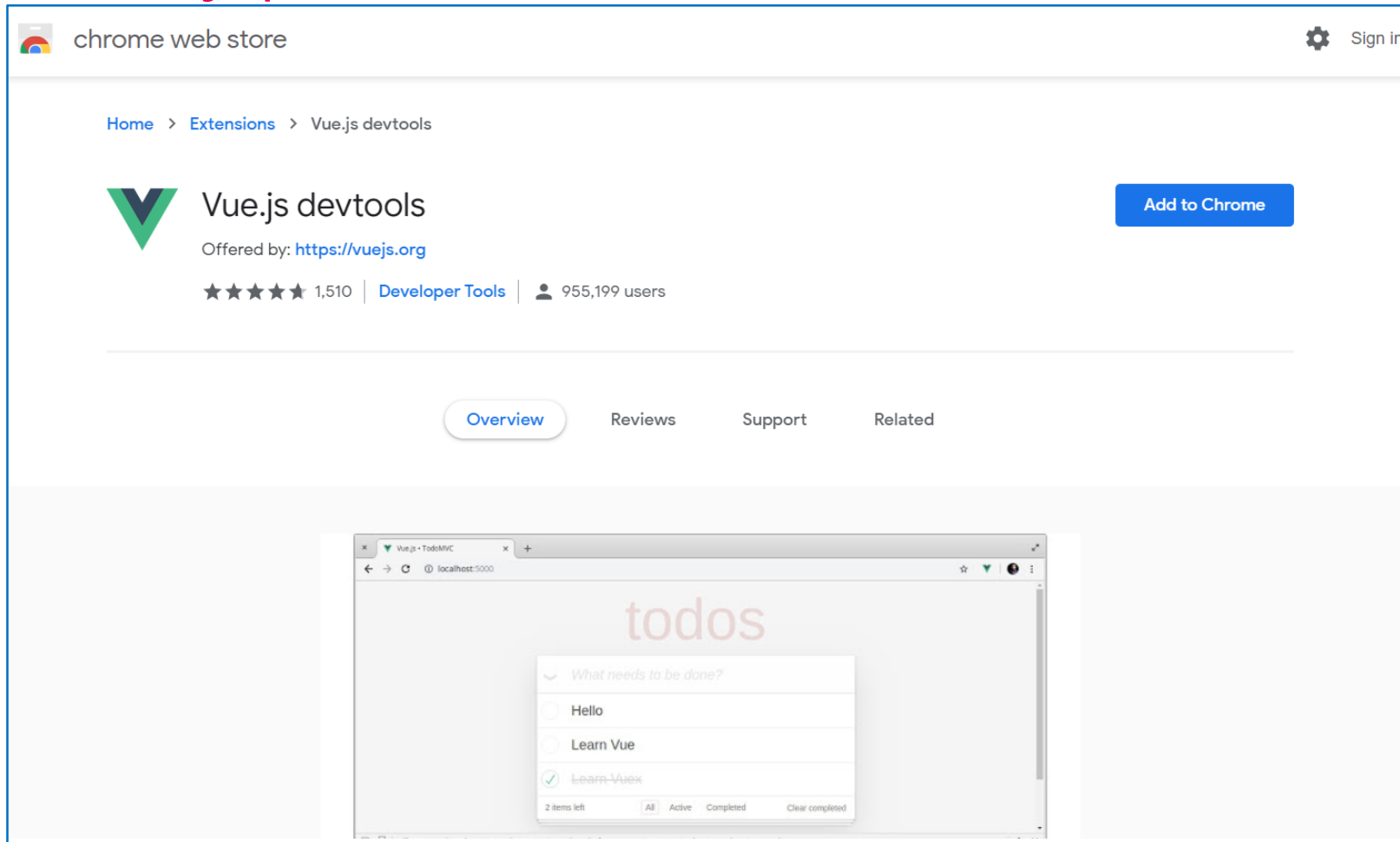
# Git (Cont.)



```
C:\Users\bluee>git --version  
git version 2.23.0.windows.1
```

# Vue.js devtools

- <https://chrome.google.com/webstore/detail/vuejs-devtools/nhdogjmejiglipccpnnnanhbledajbpd>

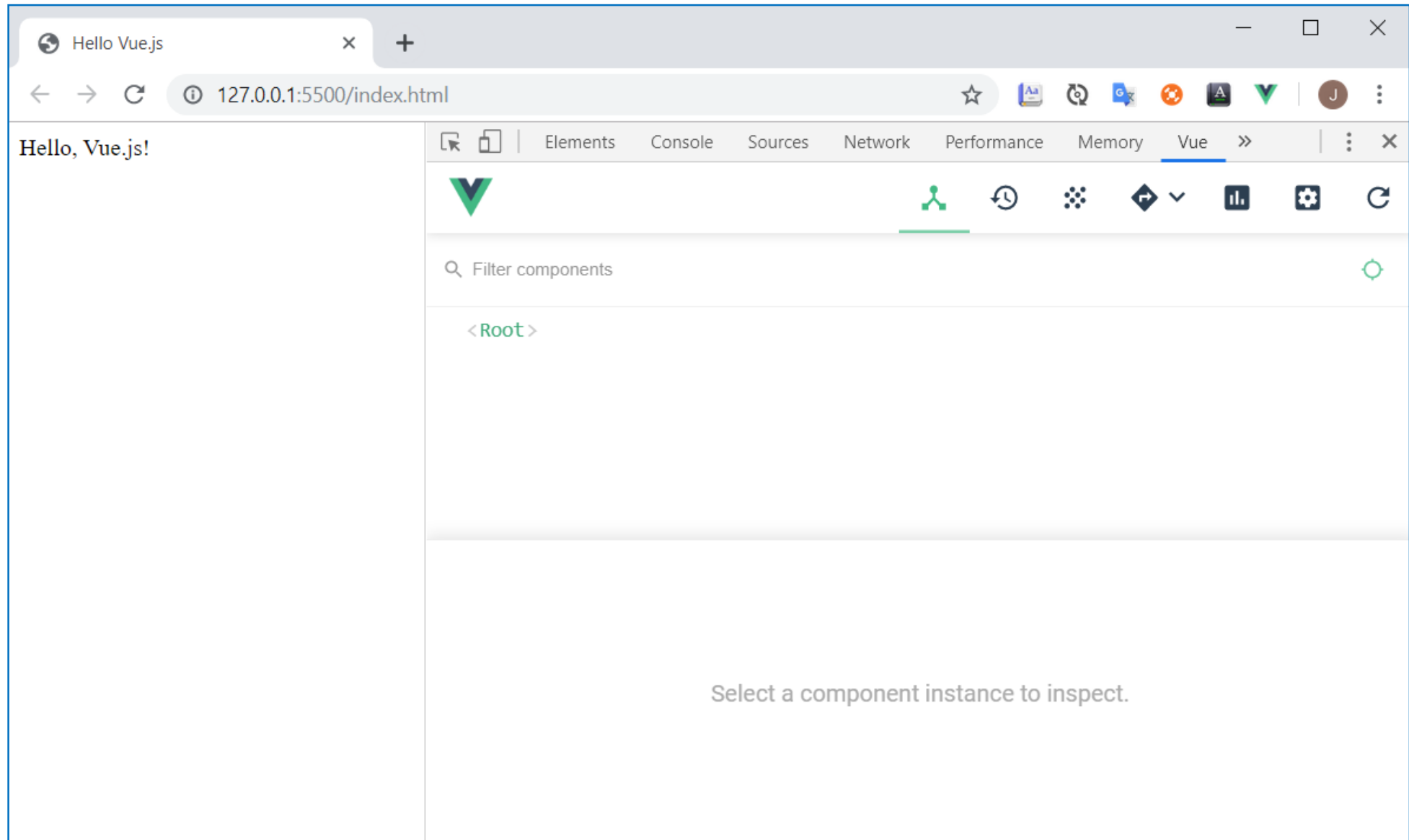




# Hello Vue.js

```
index.html > ...
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4    <meta charset="UTF-8">
5    <meta name="viewport" content="width=device-width, initial-scale=1.0">
6    <meta http-equiv="X-UA-Compatible" content="ie=edge">
7    <title>Hello Vue.js</title>
8  </head>
9  <body>
10   <div id="app">
11     {{ message }}
12   </div>
13   <script src="https://cdn.jsdelivr.net/npm/vue@2.6.0"></script>
14   <script>
15     new Vue({
16       el : '#app',
17       data : {
18         message : 'Hello, Vue.js!'
19       }
20     });
21   </script>
22 </body>
23 </html>
```

# Hello Vue.js (Cont.)



# Vue-CLI

- Evan You가 공식적으로 관리하는 Command line Interface 기반의 Scaffolding 도구.
- Vue.js App을 개발시 Project의 Directory 구조를 어떻게 잡을 것인지 Test, Build, Dependency 등을 어떻게 설정할 것인지에 대한 고민을 하지 않도록 Project의 기본 Template을 설정해 주는 Tool.
- Node.js 6.x 이상, npm version 3 이상의 환경 필요.
- Installation

```
$ npm install -g vue-cli
```

```
C:\Users\bluee>npm install -g vue-cli_
```

**Scaffolding** : 원래 '공사장 등에서 사용하는 임시 가설물'이라는 뜻. Application을 개발할 때 처음부터 개발하는 것이 아니라 기본적인 Interface와 Tool을 제공해 준다. 개발자는 이 Tool을 활용해서 전체 App을 개발할 수 있다. - 원형섭, <Vue.js 쿼 스타트>, 2017.9, 루비페이퍼, p11.

## Vue-CLI (Cont.)

- 설치 후 설치 유무 및 Version 정보 확인

**\$ vue -V** 혹은 **vue --version**

```
C:\Users\bluee>vue --version  
2.9.6
```

- Vue-CLI로 만들 수 있는 Project Template을 알아보자.

**\$ vue list**

## Vue-CLI (Cont.)

```
C:\Users\bluee>vue list
```

Available official templates:

- ❓ **browserify** - A full-featured Browserify + vueify setup with hot-reload, linting & unit testing.
- ❓ **browserify-simple** - A simple Browserify + vueify setup for quick prototyping.
- ❓ **pwa** - PWA template for vue-cli based on the webpack template
- ❓ **simple** - The simplest possible Vue setup in a single HTML file
- ❓ **webpack** - A full-featured Webpack + vue-loader setup with hot reload, linting, testing & css extraction.
- ❓ **webpack-simple** - A simple Webpack + vue-loader setup for quick prototyping.

# Vue-CLI (Cont.)

## ■ simple

- 가장 간단단 Project Template 유형.
- HTML file 하나만 생성.
- 내부에는 Vue.js를 CDN(Content Delivery Network)방식으로 참조하고 있음.
- 가장 단순한 방법으로 기본적인 기능을 Test 해 볼 때 사용 가능.

## ■ broserify

- browserify + vueify 조합으로 hot-reload, linting, 단위 Test를 지원하는 Project Template을 구성.
- 대규모 Application을 개발할 때 주로 사용

## ■ broserify-simple

- 빠른 Prototyping을 위한 browserify + vueify가 설정된 간단한 Template 제공

# Vue-CLI (Cont.)

## ■ webpack

- Webpack + vue-loader 조합의 기능에 hot-reload, linting, 단위 Test 기능을 제공하는 Project Template.
- 대규모 Application 개발에 적절.

## ■ webpack-simple

- 빠른 Prototyping을 위한 Webpack + vue-loader가 설정된 간단한 Template 제공

## ■ pwa

- PWA(Progressive Web App) 개발을 위한 Template 제공.
- Webpack과 유사하지만 몇 가지 Library가 추가되어 있음.

## Vue-CLI (Cont.)

- Vue-CLI로 Project 기본 틀을 만드는 방법은 아래와 같다.

`$ vue init [Template이름] [Project 이름]`

- @vue/cli-init module 설치하는 명령어

`$ npm install @vue/cli-init -g`

```
C:\Users\bluee>npm install @vue/cli-init -g
npm WARN deprecated vue-cli@2.9.6: This package has been deprecated in favour of
@vue/cli
npm WARN deprecated coffee-script@1.12.7: CoffeeScript on NPM has moved to "coff
eescript" (no hyphen)
+ @vue/cli-init@3.12.0
added 257 packages from 208 contributors in 12.779s
```



## Vue-CLI (Cont.)

### ■ `helloworld` Project

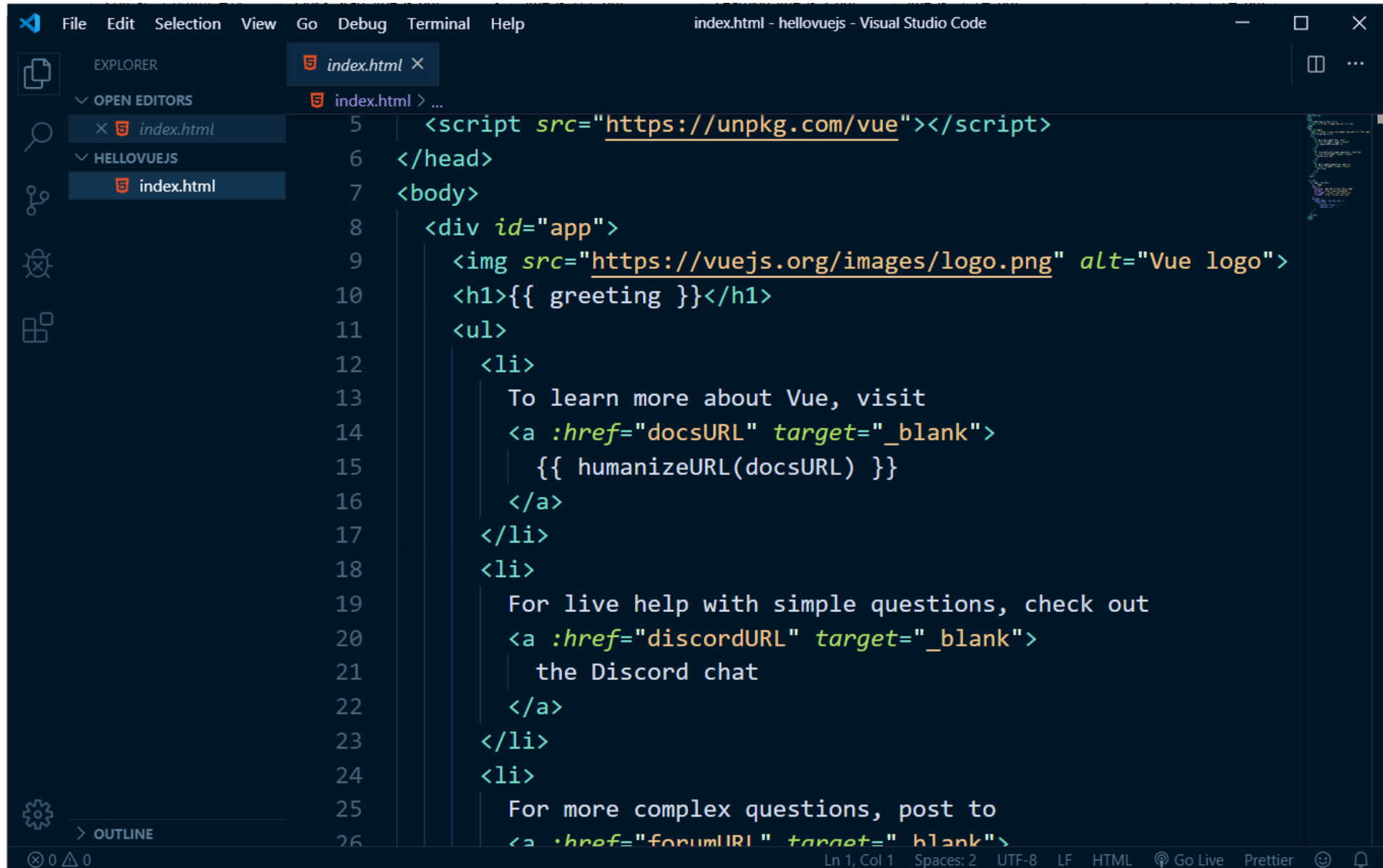
```
$ vue init simple helloworld
```

```
C:\VueHome>vue init simple helloworld
```

```
? name helloworld
```

```
vue-cli · Generated "helloworld".
```

# Vue-CLI (Cont.)



```
index.html - hellovuejs - Visual Studio Code

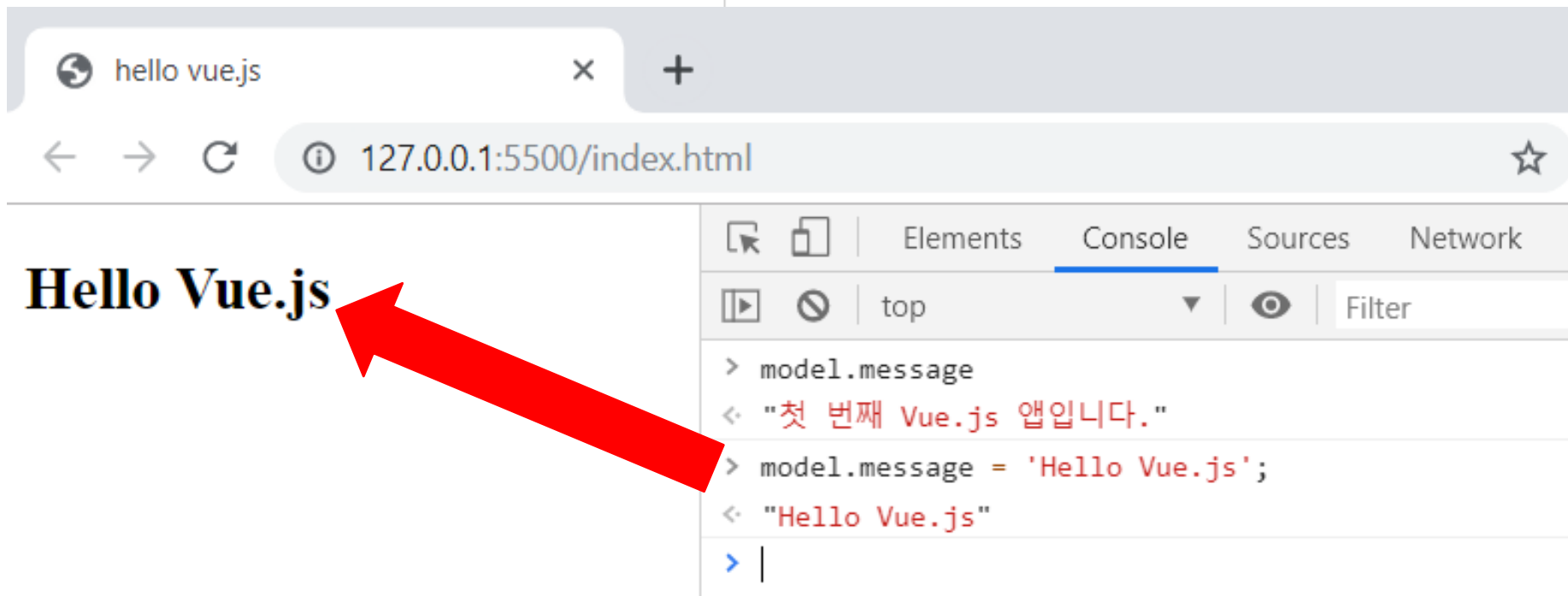
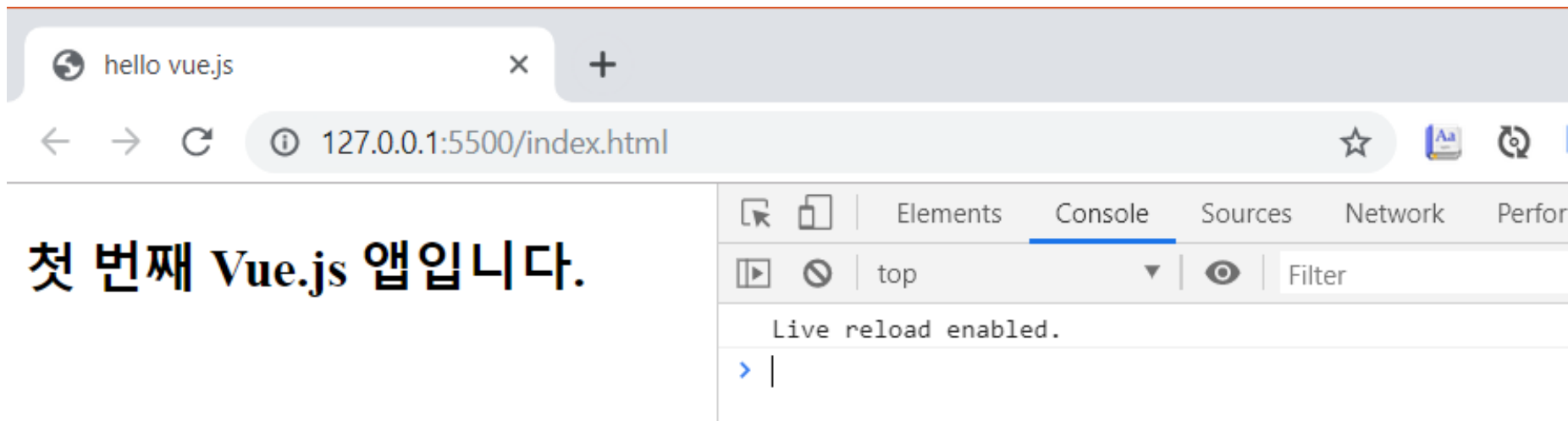
EXPLORER
  index.html x
  index.html > ...
  index.html
  HELLOVUEJS
    index.html

5 <script src="https://unpkg.com/vue"></script>
6 </head>
7 <body>
8   <div id="app">
9     
10    <h1>{{ greeting }}</h1>
11    <ul>
12      <li>
13        To learn more about Vue, visit
14        <a :href="docsURL" target="_blank">
15          {{ humanizeURL(docsURL) }}
16        </a>
17      </li>
18      <li>
19        For live help with simple questions, check out
20        <a :href="discordURL" target="_blank">
21          the Discord chat
22        </a>
23      </li>
24      <li>
25        For more complex questions, post to
26        <a :href="forumURL" target="_blank">
```

# Vue-CLI (Cont.)

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4    <meta charset="utf-8">
5    <title>hello vue.js</title>
6    <script src="https://unpkg.com/vue/dist/vue.min.js"></script>
7  </head>
8  <body>
9    <div id="simple">
10     <h2>{{message}}</h2>
11   </div>
12   <script>
13     var model = {
14       message : '첫 번째 Vue.js 앱입니다.'
15     };
16
17     var simple = new Vue({
18       el : '#simple',
19       data : model
20     });
21   </script>
22 </body>
23 </html>
```

## Vue-CLI (Cont.)



## Vue-CLI (Cont.)

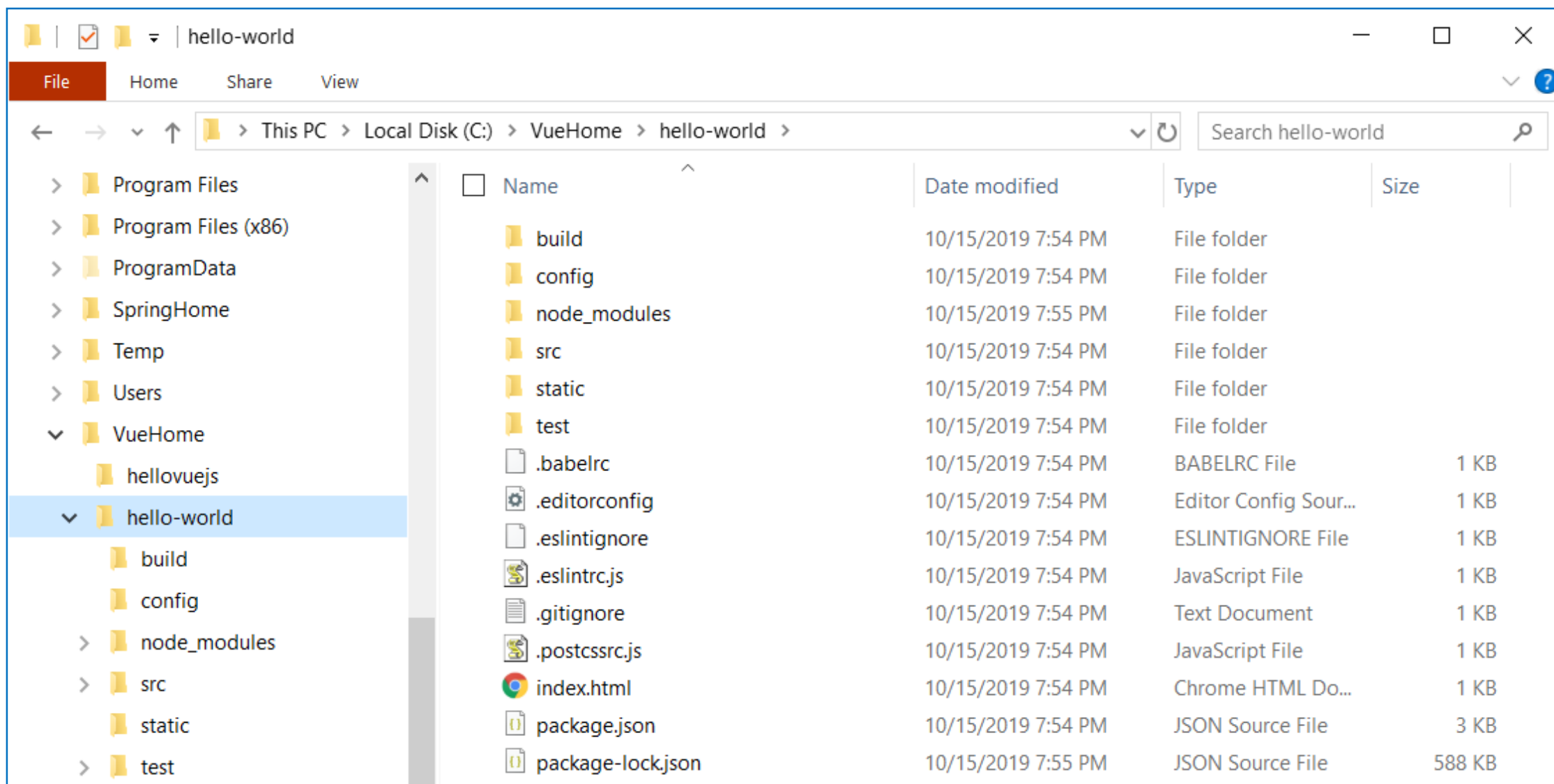
```
$ vue init webpack hello-world
```

```
C:\VueHome>vue init webpack hello-world
```

```
? Project name hello-world
? Project description A Vue.js project
? Author instructor
? Vue build standalone
? Install vue-router? Yes
? Use ESLint to lint your code? Yes
? Pick an ESLint preset Standard
? Set up unit tests Yes
? Pick a test runner jest
? Setup e2e tests with Nightwatch? Yes
? Should we run `npm install` for you after the project has been created? (recommended) npm
```

```
vue-cli · Generated "hello-world".
```

# Vue-CLI (Cont.)



## Vue-CLI (Cont.)

```
C:\VueHome>cd hello-world
```

```
C:\VueHome\hello-world>npm run dev
```

```
> hello-world@1.0.0 dev C:\VueHome\hello-world
```

```
> webpack-dev-server --inline --progress --config build/webpack.dev.conf.js
```

```
13% building modules 28/36 modules 8 active ...o-world\src\components\HelloWorld.vue{ parser: "babylon" } is deprecated; we now treat it as { parser: "babel" }.  
95% emitting
```

```
DONE Compiled successfully in 3968ms
```

```
8:02:03 PM
```

```
I Your application is running here: http://localhost:8080
```

# Vue-CLI (Cont.)





# Vue-CLI (Cont.)

