

Node.js Mac

Node/NPM/Validator Setup - Mac

Command Line Reference

Key Controls/Shortcuts

Enter/Return	Executes the current command
Up/Down Arrow	Auto-fills previously/next run commands
Control+C	Stops the process currently running
Tab	Autocomplete a file or directory name

File System Commands

ls	Lists all of the files/folders inside of the current directory
cd	Changes directory to the folder you specify (not including the <>)
cd ..	Goes up one to the parent of the current directory
pwd	Displays the full path to the current directory

1) Installing Node.js and NPM

Preface/Explanation

Programming languages are just like real languages. They are used to communicate ideas in a structured way. In this course, we will be using the JavaScript programming language to both communicate to your browser how to handle the behavior of your website and to communicate what we want our server to do and respond to requests with.

On the client-side, your JavaScript is interpreted by your browser, so it knows how to respond to user events like button clicks and pages loads. On the server-side, your JavaScript is interpreted by a piece of software called Node.js, so that it knows how to respond to user requests over the network.

This includes responding with the client-side files (HTML/CSS/Client-side JavaScript) for the client to display, or responding with information stored or calculated on the server. While developing for this course,

we will be running both the client-side browser and the server on the same machine (your computer). (We will go more in depth into the server-side later on in the course).

There are a wide array of community-made modules that expand upon the default features of Node.js.

We will be using some of these modules in this class. In order to install and manage these modules, we will use a program called npm that is included when installing Node.js. Follow the steps below to install both Node.js and npm.

Steps

1. Start off by downloading the LTS (version number $\geq 14.15.0$) Node.js/NPM `.pkg` installer from <https://nodejs.org/en/download/> `.(https://nodejs.org/en/download/)`. Then, run the installer to start the installation process.

The screenshot shows the Node.js Downloads page. The 'LTS' section is highlighted with a red box and labeled '1)'. Within the 'LTS' section, the 'macOS Installer' is highlighted with a red box and labeled '2)'. The page also shows the 'Current' section and a list of download links on the left.

Downloads
Latest LTS Version: 12.13.0 (includes npm 6.12.0)

Download the Node.js source code or a pre-built installer for your platform, and start developing today.

1) LTS Recommended For Most Users

2) macOS Installer node-v12.13.0.pkg

Current Latest Features

Source Code node-v12.13.0.tar.gz

Windows Installer (.msi)

Windows Binary (.zip)

macOS Installer (.pkg)

macOS Binary (.tar.gz)

Linux Binaries (x64)

Linux Binaries (ARM)

Source Code

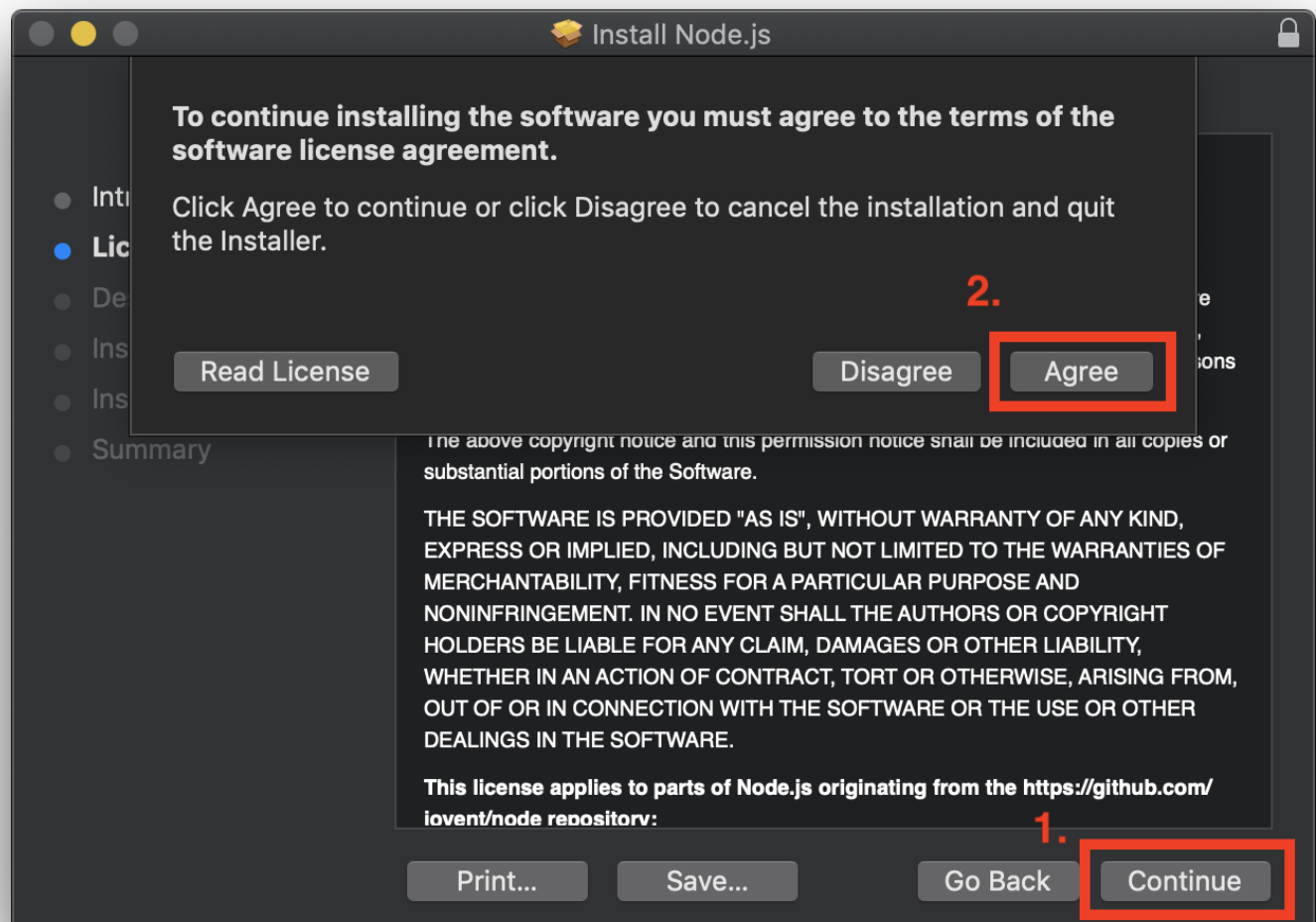
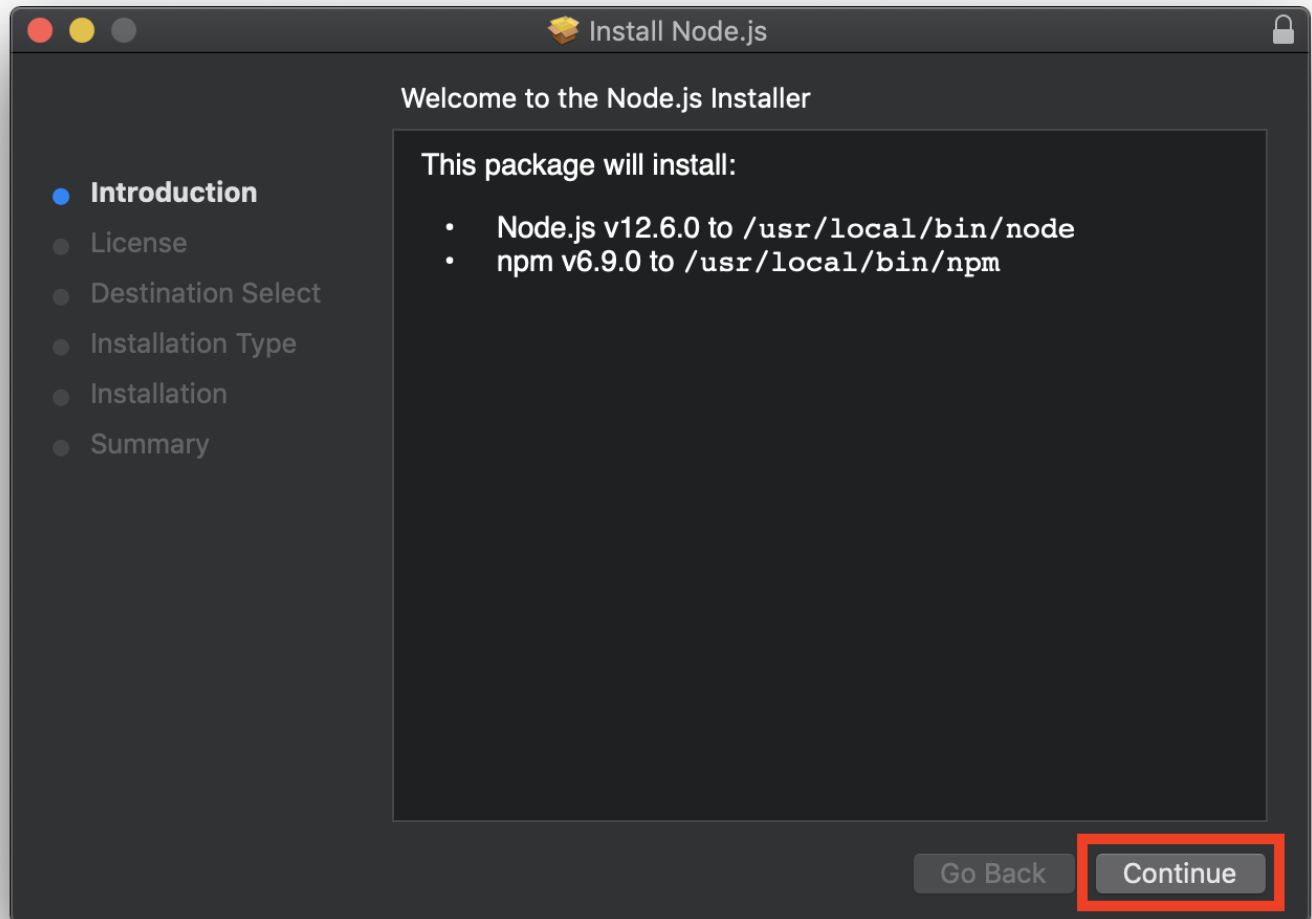
Additional Platforms

SmartOS Binaries

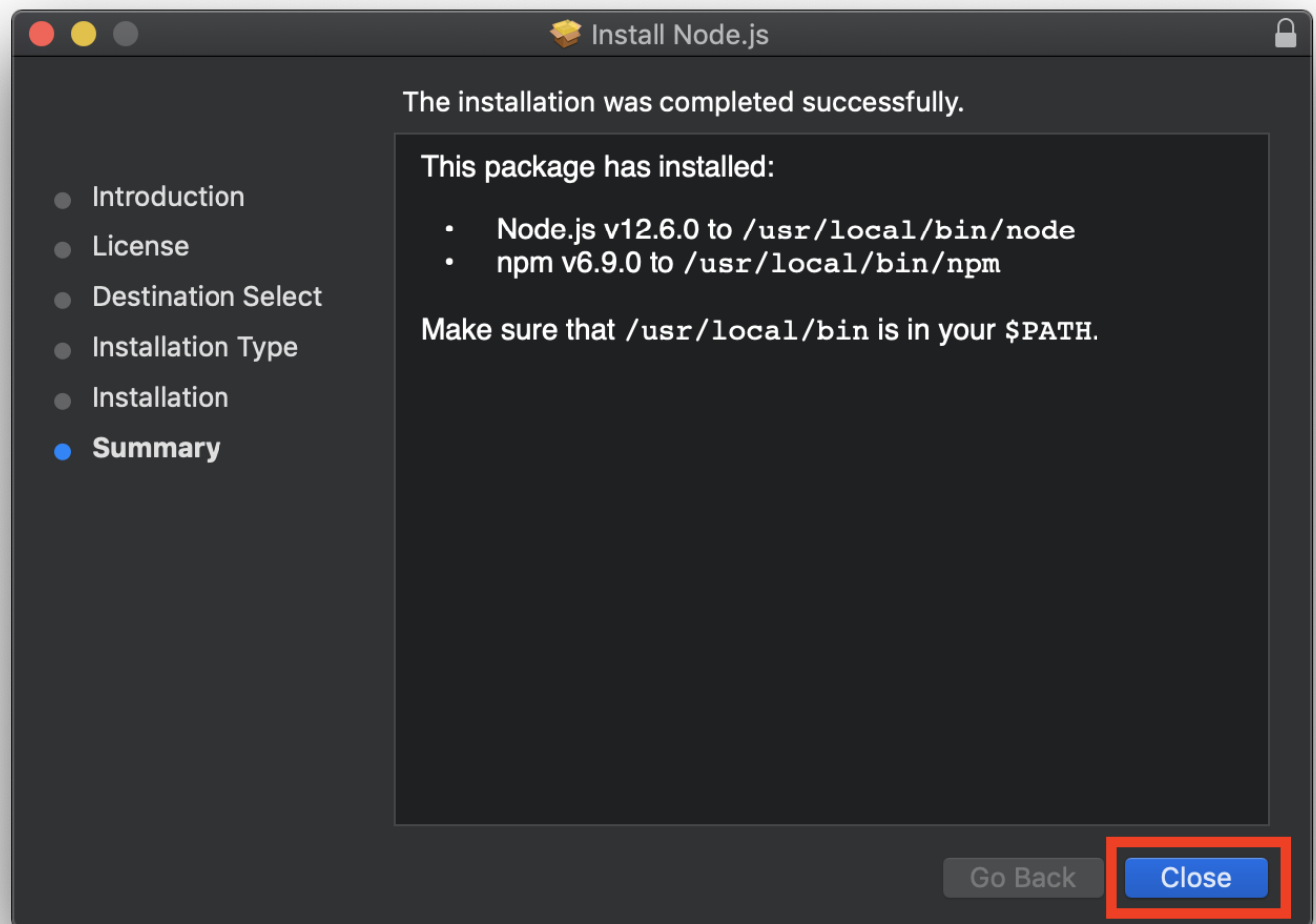
Docker Image

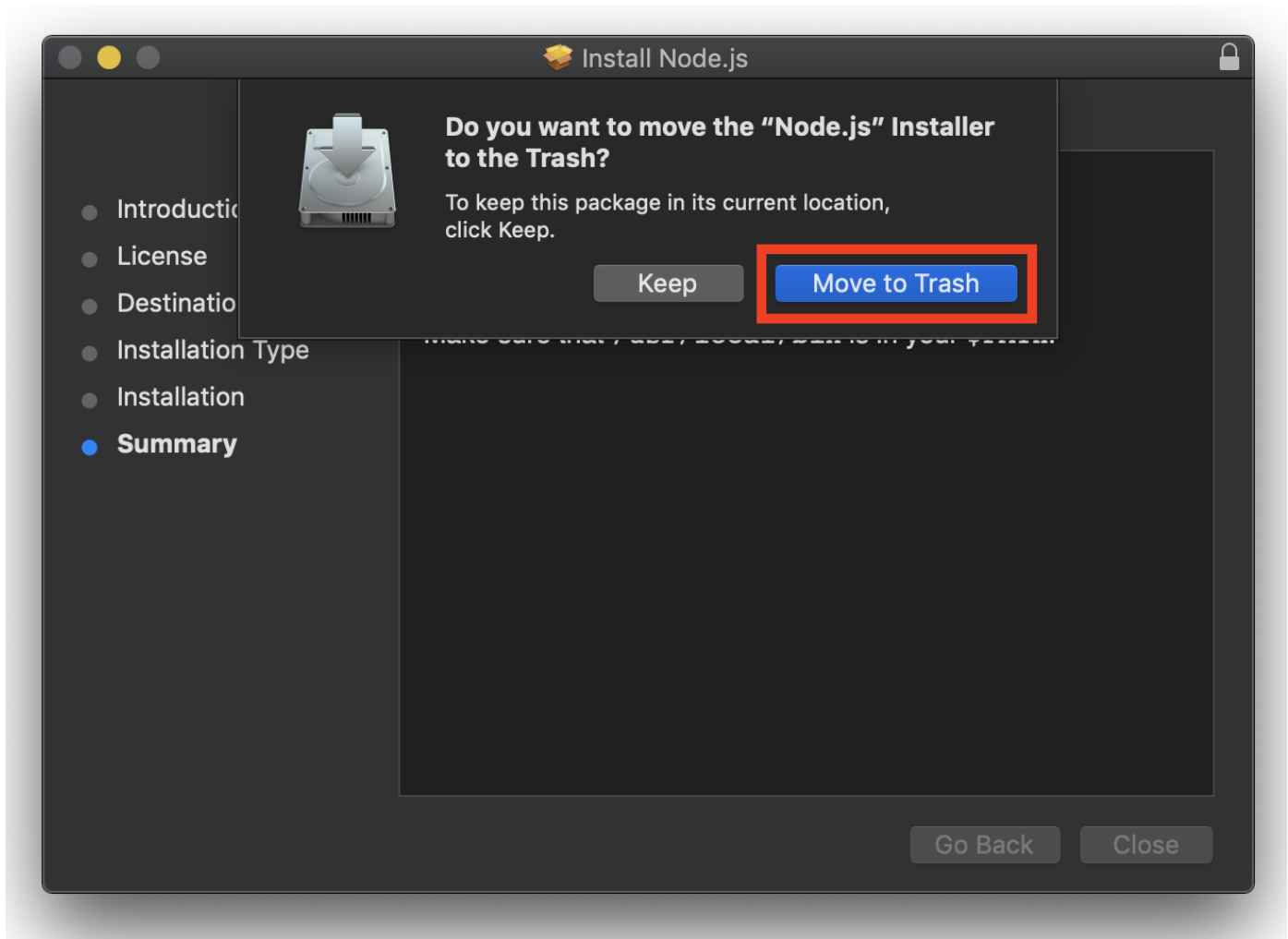
node-v12.13.0.pkg

2. Go through the prompts hitting `continue` / `install` each time with the default options.

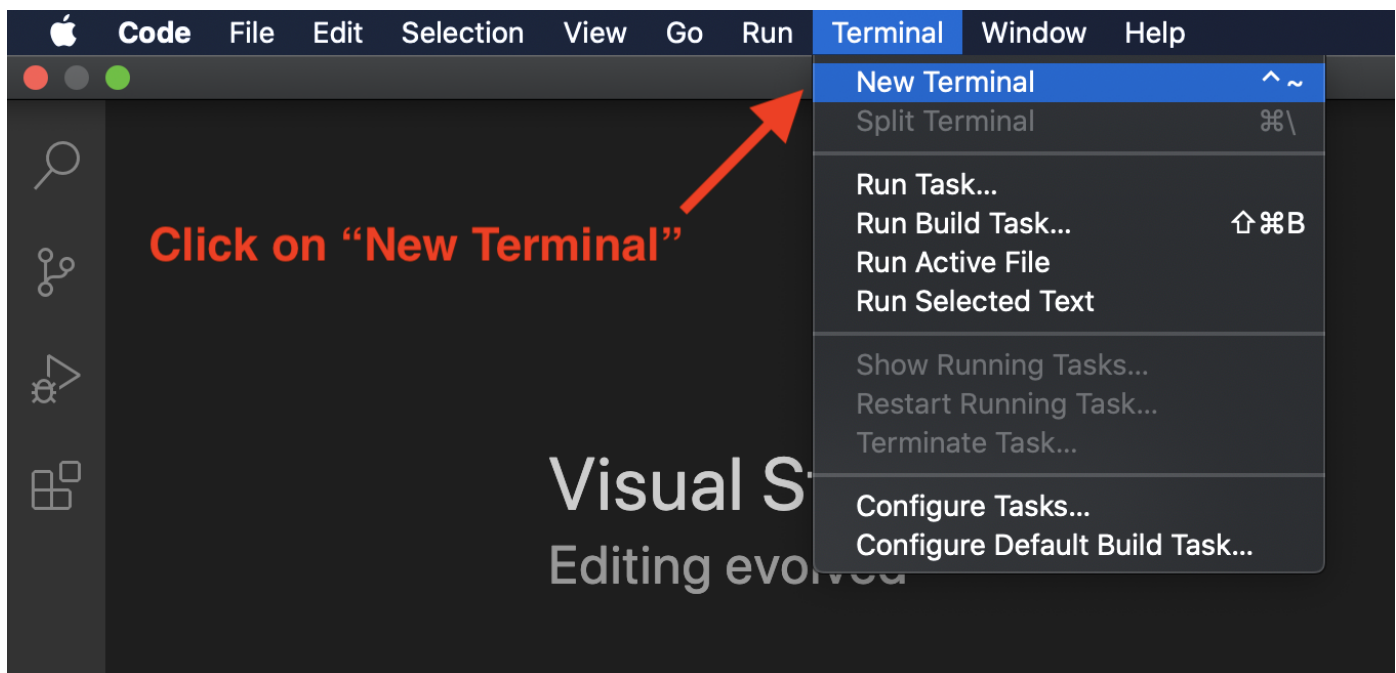








3. Check to make sure that Node and NPM are installed correctly by opening up VSCode terminal. You can do this by either clicking `Terminal > New Terminal` or pressing `Ctrl + ~`.



4. Then, run both `node -v` and `npm -v` to see the version numbers and check that both commands are installed and working.



```
(base) MacBook-Pro-Jack:cse344-hw4-jvenberg jackv$ node -v
v12.13.0
(base) MacBook-Pro-Jack:cse344-hw4-jvenberg jackv$ npm -v
6.12.0
(base) MacBook-Pro-Jack:cse344-hw4-jvenberg jackv$
```

2) Installing Global Node Modules

Preface/Explanation

Node modules, by default, are installed locally within a particular project, so they are only accessible

and importable within a particular Node project directory. However, some modules are able to be installed globally

which can allow them to create useful command-line commands. Here are a few global modules used in this course:

`http-server`

Allows you to quickly run a local server that hosts the files inside of the current directory you run the `http-server` command in.

`nodemon`

A wrapper command that acts like if you run `node`, but it detects any changes you have made to your files, and restarts the `node` process so your changes are immediately reflected without manually restarting.

`eslint`

Javascript linter commandline module that we use to run the local linters.

`stylelint`

CSS linter commandline module that we use to run the local linters.

`@linthtml/linthtml`

HTML linter commandline module that we use to run the local linters.