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.

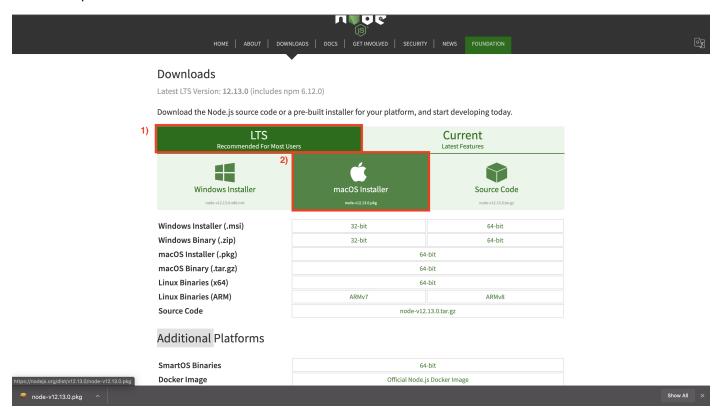
On the client-side, your JavaScript is interpreted by your browser, so it knows how to respond to user events like button clicks and pages loads. On the server-side, your JavaScript is interpreted by a piece of software called Node.js, so that it knows how to respond to user requests over the network.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

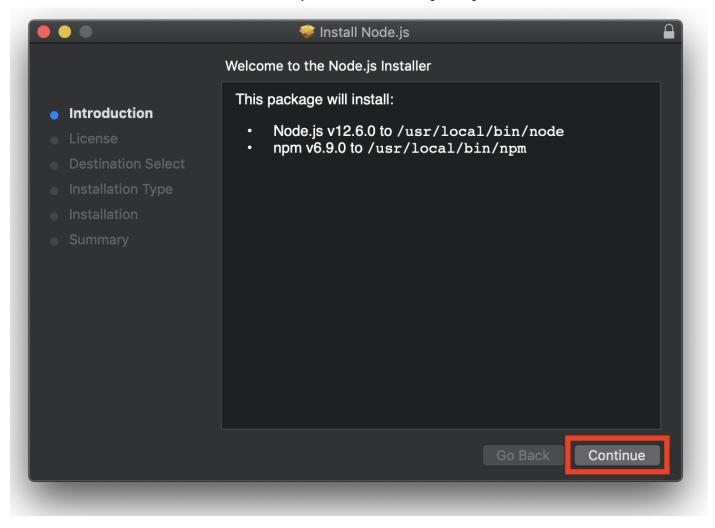
Steps

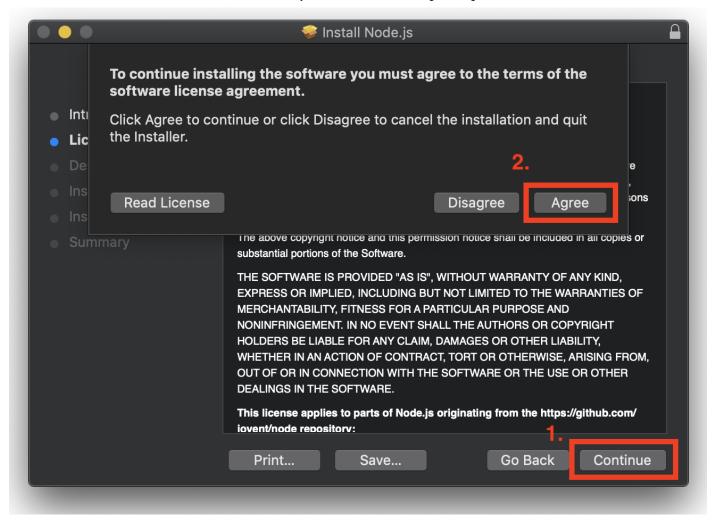
1. Start off by downloading the LTS (version number >=14.15.0) Node.js/NPM .pkg installer from https://nodejs.org/en/download/. Then, run the installer to start the

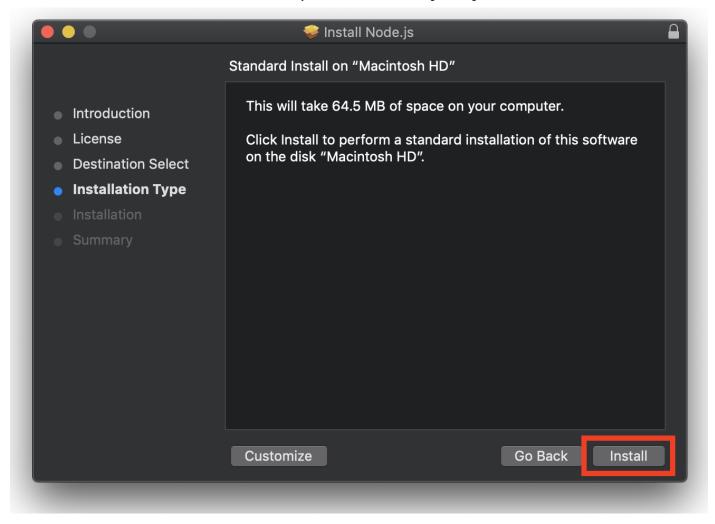
installation process.

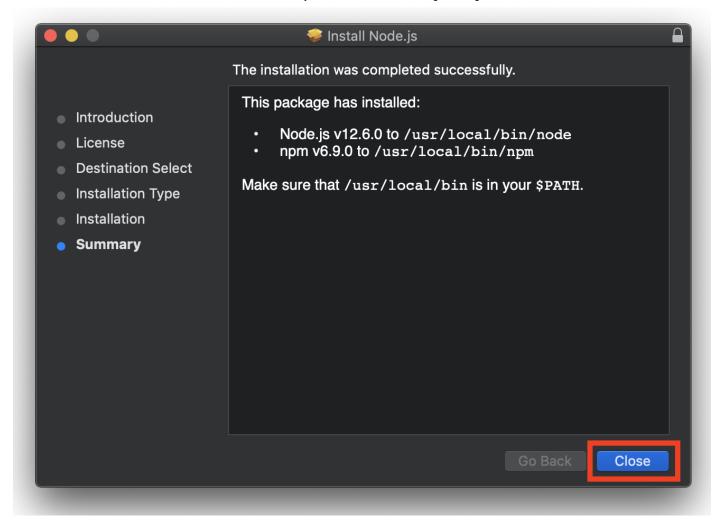


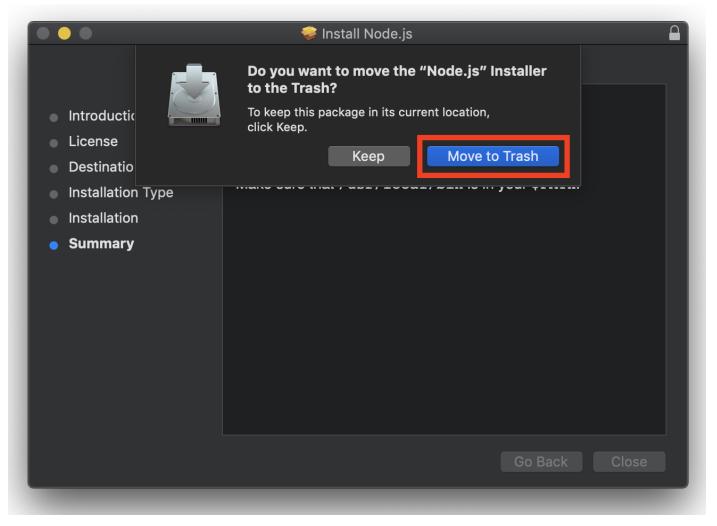
2. Go through the prompts hitting continue / install each time with the default options.



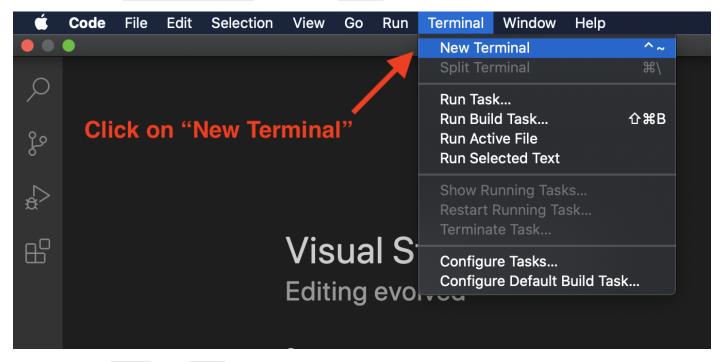








3. Check to make sure that Node and NPM are installed correctly by opening up VSCode terminal. You can do this by either clicking Terminal > New Terminal or pressing Ctrl + ~.



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 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 your 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.