

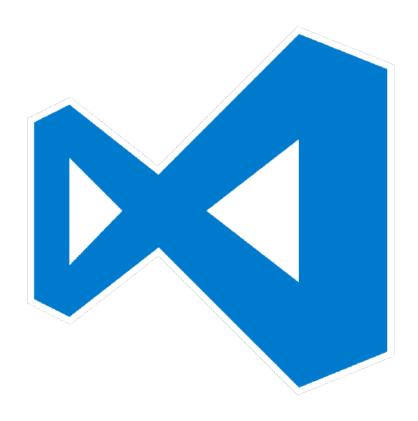
Machine Setup and Git

High Country Angular Meetup Monday, June 18, 2018



Selecting an Editor

- Atom
- Coda2
- Eclipse
- Visual Studio
- Visual Studio Code (VS Code)
- WebStorm

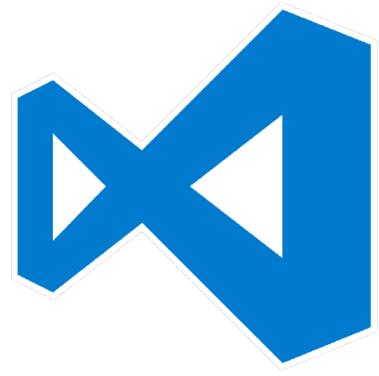


Selecting an Editor

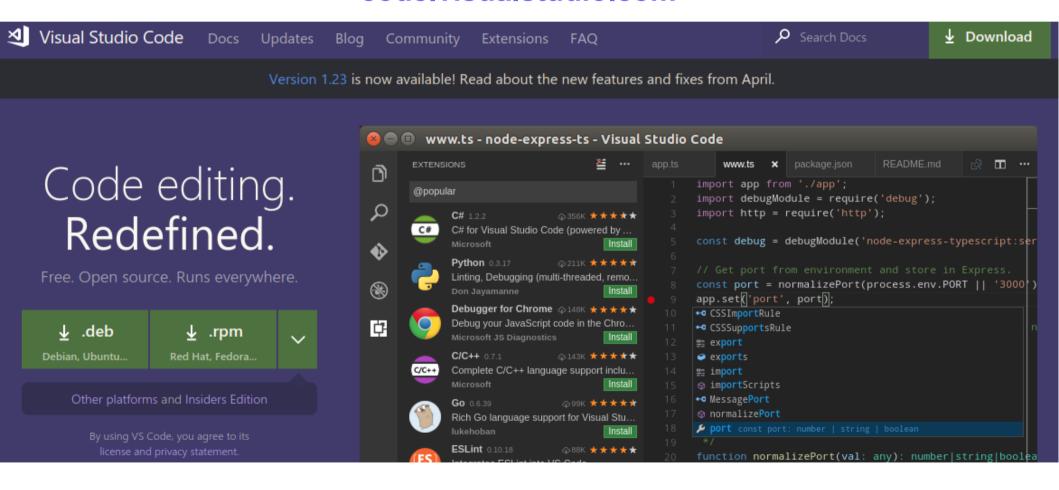
VS Code runs on Windows, Mac, and Linux

Great support for Angular

- Auto Completion
- Intellisense
- Syntax Checking
- and Refactoring



code.visualstudio.com



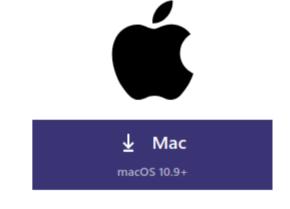
Choose the installer appropriate for your OS

Download Visual Studio Code

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







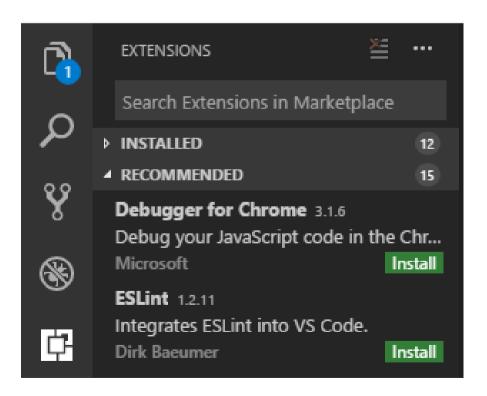
.tar.gz | 32 bit versions

Run the install



Once installed, open VS Code and open Extensions by clicking on the Extensions icon at the bottom of the left menu.

Use the Search to find **Angular Essentials**



Angular Essentials is an extension pack curated and maintained by Angular developer John Papa

- Angular v6 Snippets
- Angular Language Service
- EditorConfig for Visual Studio Code
- TSlint
- Debugger for Chrome
 (You'll want to use Chrome with the Augury extension)
- Path Intellisense
- angular2-inline
- Winter is Coming theme
- Prettier Code Formatter

Click INSTALL

Choose File > Preferences > Settings and in the User Settings and add the following to your settings to configure your new Extensions:

```
"window.zoomLevel": 1.
"gitlens.advanced.messages": {
   "suppressShowKeyBindingsNotice": true
"editor.formatOnSave": true,
"prettier.singleQuote": true,
"prettier.eslintIntegration": true,
"prettier.tabWidth": 2,
"gitlens.historyExplorer.enabled": true,
"typescript.updateImportsOnFileMove.enabled": "always",
"editor.codeActionsOnSave": {
   "source.organizeImports": true
```

Choose File > Preferences > Settings and in the User Settings and add the following to your settings to configure your new Extensions:

Grab it here: tinyurl.com/vscode-settings

Windows:

restart your computer

MacOS:

- CTRL+SHIFT+P to open the command palette
- Type Shell Command and choose Install 'code' command in PATH

Now you'll be able to type 'code .' in any directory to open your projects.

NPM (Node Package Manager)



What is NPM?

NPM is a command line utility that interacts with a repository of open source projects.

Easily install libraries, packages, and applications - along with their dependencies.

Execute scripts to transpile our code and launch our Angular applications.

LAB – Installing NPM

npmjs.com

On the NPM site, scroll down to Get Started and then click on the link for **node.js**



Get started with npm

The npm command-line tool is bundled with Node.js. If you have it installed, then you already have npm too. If not, go download Node.js.

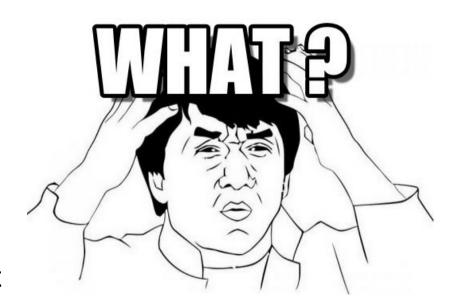
LAB – Installing NPM

What is Node.js?

Node.js is an open source server environment that uses JavaScript on the server

Node can:

- generate dynamic page content
- create, open, read, write, delete, and close files on the server
- collect form data
- add, delete, and modify data in your database



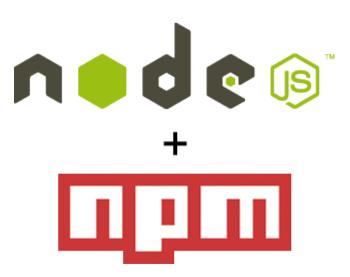
LAB – Installing NPM

Is Node.js a file?

.js is the conventional filename extension for JavaScript code

the name "Node.js" does not refer to a particular file in this context it is the name of the product

NPM is bundled with Node so to install NPM, you install Node.js and get both.

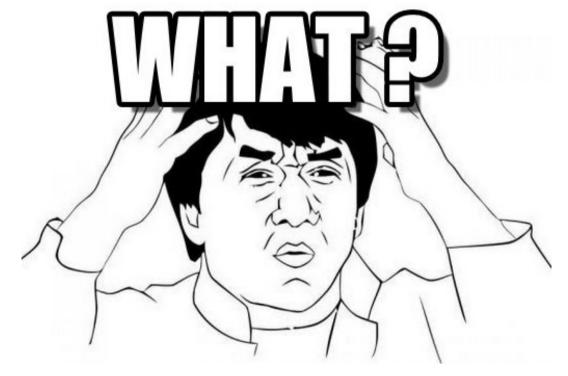


LAB – Installing Node.js and NPM

NVM – Node Version Manager

For Linux and macOS, use Node Version Manager (NVM). NVM is a community tool that allows you to run different versions of Node.js on

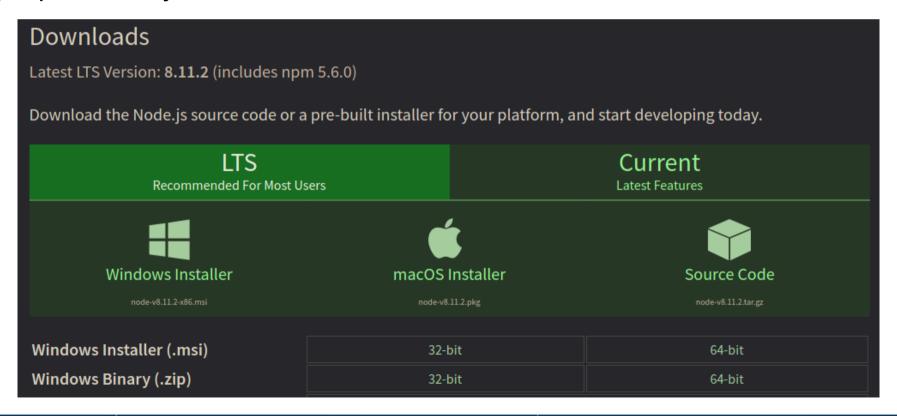




LAB – Installing Node.js and NPM

There is an NVM for Windows, but can be involved to install. tinyurl.com/nvm-windows

Use the Nodejs.org Downloads page. Choose the LTS version installer appropriate for your version of Windows.



LAB – Installing NVM and Node.js and NPM

Install NVM on Linux or macOS - tinyurl.com/install-nvm

In your terminal install using Curl or Wget:

curl -o- https://raw.githubusercontent.com/creationix/nvm/v0.33.0/install.sh | bash

wget -qO- https://raw.githubusercontent.com/creationix/nvm/v0.33.0/install.sh | bash

Verify your installation:

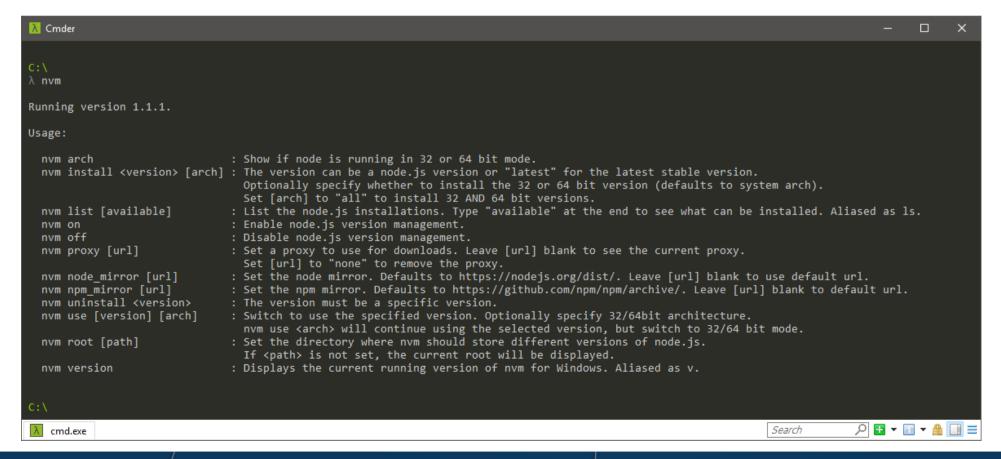
nvm -version



LAB – Installing NVM and Node.js and NPM

Install the latest available LTS version of Node.js and NPM:

nvm install -- Its



Manual Steps:

- Create an application folder
- Add package definition and configuration files
- Install the packages
- Create the application's Angular Module
- Create the main.ts file
- Create the host page (index.html)



Setting this up manually is time consuming and prone to error, so luckily we have other options.

GitHub

The Angular team provides a set of quickstart files you can use to setup a boilerplate application. **github.com/angular/quickstart**

Angular CLI

Command line tool that will generate the setup files and boilerplate code for an Angular application.

Angular CLI

- Generates your components, services, modules, and other files.
- Scaffolds and executes your unit and end-to-end-tests.
- Provides options to minimize, package, and prepare the files you need for deployment.

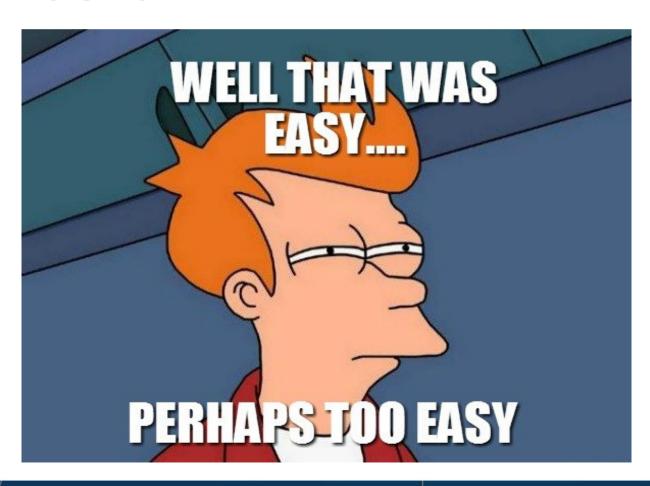
Angular CLI is the recommended tool for building, testing, and deploying Angular applications. **github.com/angular/angular-cli**



LAB - Installing Angular CLI

Open a terminal and run:

npm install -g @angular/cli



LAB - Setting up a new Angular Project

Open a terminal and change to the directory where you want to place the new Angular project

Run:

ng new PROJECT-NAME

cd PROJECT-NAME

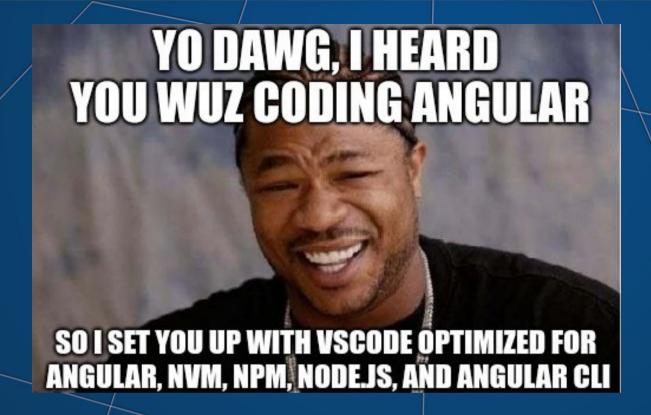
code.

ng serve -o

The application will automatically reload in your browser if you change any source files.

In VS Code, open src > app > app.component.html

Edit any of the text and you'll see the change in your browser.



You now have all the tools you need to build Angular applications on your local machine.

But what about sharing your code and working collaboratively with a team?

That's where Git comes in . . .



https://github.com/ngHighCountry/HighCountryAngular.git