Dev Environment

David Richards - February 2021

Nodejs

- Superset of javascript originally designed for backend (server) development
- Node's module system now extended to the browser
 - Reactjs is installed as an NPM module
- NPM node package manager
 - > 1 million modules for javascript
- NPX locally execute scripts hosted remotely
- package.json maintains list of production and development modules
 - Scripts for running dev, build, and production builds
- Yarn alternative module management

Nodejs

- Download from https://nodejs.org/en/
- Installs node.js && npm

- Alternative (problems with file permissions?)
 - Install nvm (node version manager)
 - https://github.com/nvm-sh/nvm
- Advantages:
 - Explicit node versioning
 - Run different node versions on a single machine

Github

- Create account
 - github.com
 - Email will require verification
 - Ensure that your email is kept private
 - Make note of your commit email address
 - Click dropdown from top right corner > settings > email
 - ex: 123654858+ravenOSS@users.noreply.github.com

VSCode

- Free code editor open sourced by Microsoft
- Download: https://code.visualstudio.com/Download
- Integrated terminal
- Integrated VCS (Version Control System)
- Supports most languages out of the box
- Customize with extensions

ESLint & Prettier Config

- Global install requires some VSCode settings
- Recommendation is to install per project
- Add local config files
- Examples
 - https://github.com/ravenOSS/VSCode-Eslint-Prettier-Airbnb

VSCode

- Supports many programming languages simply by switching selection
 - Add more specific language support with extensions
- Built-in Emmet for pop-up definitions and code snippets (! example)
 - Foundation is Typescript (superset of Javascript with type definitions (e.g. number, string, object, array)
- Key integrations
 - ESLint 'lints' code for correct syntax
 - Extensive rule set
 - Prettier formats code for easier readability

VSCode Extensions

- LiveServer Ritwick Day
 - Python and node alternatives
- Bracket Pair Colorizer Coenraads
- Color Highlighter Sergi Naumov
- Material Icon Theme Phillip Kief
- FiraCode Font https://github.com/tonsky/
 - Enable font ligatures in Settings
- Theming
 - VSCode dark
 - Monokai Pro includes file icons

Integrated Terminal

- Command line functionality
- >shell commands
- >install 'code .' shell command to PATH
- 'code .' will open folder in new VSC window
- Useful when creating projects from CLI installs

Terminal

- MacOS iTerm2 (integrated terminal in VSCode
 - Add oh-my-zsh for color theming
 - Add aliases
 - alias la="ls -lAh"
 - alias III="Is -al less" (paginates long file listings
 - alias mbp="cd ~/Dropbox/MBP_Projects"
 - alias pg="ping 8.8.8.8 -c6" (pings Google server to report connection status)
- Windows 10 Window Terminal (install from MS Store)
 - Optional add cmdr
 - HowTo: https://medium.com/talpor/windows-terminal-cmder-%EF%B8%8F-573e6890d143

Chrome

React Dev Tools

Layout Examples

- CSS Grid & Flexbox
 - https://github.com/ravenOSS/css-grid-cftw