



# Git and GitHub Desktop

- An understanding of what Source Code Management and Git are
- Create a free account on [GitHub.com](https://github.com)
- Why use GitHub?
- Why use GitHub Desktop?



# Installing Git and GitHub Desktop

- Windows
  - `PS> choco install git github-desktop -y`
- Mac
  - `$ brew install git && brew cask install github-desktop`
  - Verify by executing `git -version`

## Note

You will need to restart your Terminal after the installation of a new CLI tool. However, you can avoid relaunching your Terminal and save some time by refreshing or sourcing your environment variables. On Windows, execute `refreshenv`; on macOS, execute `source ~/.bashrc` or `source ~/.zshrc` .



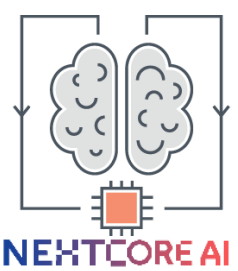
# Verify GitHub Desktop install

- Verify your GitHub Desktop installation by launching the application
- Sign in to <https://github.com/> on GitHub Desktop
- Once you have created a repository, you can launch the application from your Terminal by executing this:
  - `$ github path/to/repo`
- If you are already on the correct folder, type this:
  - `$ github`



# Node.js

- Awareness of the modern JavaScript ecosystem and tools
- NodeJS's site: <https://nodejs.org>
- Npm's site: <https://www.npmjs.com>
- Angular's site: <https://angular.io>
- Legacy AngularJS's site: <https://angularjs.org/>
- Yarn's site: <https://yarnpkg.com>
- React's site: <https://facebook.github.io/react>



# Installing Node.js

- For Windows
  - `PS> choco install nodejs-lts -y`
- For macOS
  - `$ brew install node@8`

Verify installation of Node by executing `node -v`

Verify npm by executing `npm -v`



# Useful node commands

- **npx**: Executes CLI tools by downloading the latest version on demand or project-specific local node\_modules folder. It ships with npm 5 and will allow you to run code generators that frequently update without a global install.
- **rimraf**: The Unix command `rm -rf`, but works on Windows as well. Very useful in deleting the node\_modules folder, especially when Windows is unable to do so due to the nested folder structure.
- **npm-update**: Analyzes your project folder and reports on which package have newer versions or not, with the option to be able to update all of them, if you so wish.
- **n**: Dead easy to tool to switch between versions of Node quickly, without having to remember the specific version number. Unfortunately, it only works on macOS/Linux.
- **http-server**: Simple, zero-configuration command-line HTTP server, which is a great way to locally test static HTML/CSS pages or even the dist folder of your Angular or React project.
- **npm-windows-upgrade**: Necessary to upgrade npm on Windows.



# Installing Visual Studio Code

- Windows
  - `PS> choco install VisualStudioCode -y`
- Mac
  - `$ brew cask install visual-studio-code`
- Verify by launching Visual Studio code
  - Navigate to a folder and execute `code`
  - This will open a new VS code window
    - Explorer will display the contents of the folder