

# Setup for Angular Classes

## Hardware

- One computer for every two students with at least 1Gb of free disk space

## Security needs

- Authorization to download a zip file from <http://github.com>.
- Authorization to run "npm install" to pull files from the npm repository.

## Software

### One or more modern browsers

Examples: Chrome, Firefox, Edge, Brave, and Safari. Multiple browsers will allow the student to experience browser differences.

Versions	Any - latest is preferred
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Sources	<ul style="list-style-type: none"><li>• <a href="http://google.com/chrome">http://google.com/chrome</a></li><li>• <a href="http://mozilla.org/firefox">http://mozilla.org/firefox</a></li><li>• <a href="http://microsoft.com/edge">http://microsoft.com/edge</a></li></ul>
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Validation steps	Open any of those browsers and browse to any site. If you can see the site, it is installed properly.
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### A text editor

One with JavaScript syntax highlighting and code completion is needed. Visual Studio Code is preferred. Atom, Brackets, and WebStorm are acceptable.

Version	Any – latest is preferred
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Sources	<ul style="list-style-type: none"><li>• <a href="http://code.visualstudio.com">http://code.visualstudio.com</a></li><li>• <a href="http://atom.io">http://atom.io</a></li><li>• <a href="http://brackets.io">http://brackets.io</a></li><li>• <a href="http://jetbrains.com/webstorm">http://jetbrains.com/webstorm</a></li></ul>
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Validation steps	If the editor opens, it is installed properly.
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### node and npm

Both of these tools are installed together as part of the same package. node is needed to create a local web server and run project setup scripts. npm is needed to download and configure JavaScript libraries.

Versions	Any active or current version of Node is fine. See <a href="https://nodejs.org/en/about/releases/">https://nodejs.org/en/about/releases/</a> for what is current.
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Source	<a href="http://nodejs.org/download">http://nodejs.org/download</a>
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Installation instructions	The download page gives you a choice between LTS and Current. LTS is preferred. Download the installer and follow the instructions provided.
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Validation steps	<ol style="list-style-type: none"> <li>1. Open a new command line window and type in <code>node --version</code></li> <li>2. If you see a version number, node is installed properly.</li> </ol>
Troubleshooting notes	If the command is not found, you may need to add the node directory to the PATH. For Windows, it is %PROGRAM FILES%\nodejs and for Unix (including MacOS), it is /usr/local/bin. These links may help you to set the PATH: <a href="http://bit.ly/Windows10Path">http://bit.ly/Windows10Path</a> & <a href="http://bit.ly/MacOSPath">http://bit.ly/MacOSPath</a>

## The Angular CLI

This tool allows us to create applications and run them in development mode.

Version	14.0.0 or higher (As of Angular 14)
Installation instructions	<ol style="list-style-type: none"> <li>1. Open a command line window and type in... <code>npm install --global @angular/cli</code></li> </ol>
Validation steps	<ol style="list-style-type: none"> <li>1. Open a new command line window and type in <code>ng --version</code></li> <li>2. If you see the version it is installed properly</li> </ol>
Troubleshooting notes	If the command is not found, you may need to add the install directory to the PATH. For Windows, it is %APP_DATA%\ng and for Unix (including MacOS), it is /usr/local/bin. These links may help you to set the PATH: <a href="http://bit.ly/Windows10Path">http://bit.ly/Windows10Path</a> & <a href="http://bit.ly/MacOSPath">http://bit.ly/MacOSPath</a>