# Node js

* It is a free and open-source JavaScript interpreter/server environment (written in c++) that allows us to run JS outside of a web browser
* Platform independent
  + Meaning it can run on any OS
* Made from google chromium V8 engine

# NPM

* Node Package Manager
  + It is included with the download of Node.js
* Similar to Maven or Nuget Package Manager, it can manage our dependencies and versions and this is done through a **package.json**
* It will create a folder called node\_modules in our angular app

## CLI

* Npm install -g typescript – install typescript globally for us

# What is Typescript?

* It is an open-source language and **object-oriented** language developed by Microsoft
* Essentially, it made JavaScript into an actual object-oriented language
* It is superset of JavaScript
  + It has all the features of JavaScript but with more.
* It isn’t perfect and has problems with polymorphism
* It is **strictly-typed**
  + Datatypes are enforced in typescript

## CLI

* Tsc -v -will give you the current version of typescript
  + This might give you a problem if you didn’t set your execution policy to RemoteSigned
    - To set it up, open powershell as an administrator and run set-executionpolicy remotesigned and hit y for yes