

## CSE 154: Web Programming

### Node.js/Express “Cheat Sheet”

This reference summarizes the most useful methods/properties used in CSE 154 for Node.js/Express. It is not an exhaustive reference for everything in Node.js/Express (for example, there exist many more fs methods/properties than are shown below), but provide most functions/properties you will be using in this class. *Note that this Cheat Sheet is more comprehensive than the one provided in CSE154 exams.*

Basic Node.js Project Structure	Example Express app Template
<pre>example-node-project/   .gitignore   APIDOC.md   app.js   node_modules/   ...   package.json   public/     img/     ...   index.html   index.js   styles.css</pre>	<pre>"use strict";  /* File comment */  const express = require("express"); // other modules you use // program constants  const app = express(); // if serving front-end files in public/ app.use(express.static("public"));  // if handling different POST formats app.use(express.urlencoded({ extended: true })); app.use(express.json()); app.use(multer().none());  // app.get/app.post endpoints  // helper functions  const PORT = process.env.PORT    8000; app.listen(PORT);</pre>

### npm Commands

Command	Description
<b>npm init</b>	Initializes a node project. Creates packages.json to track required modules/packages, as well as the node_modules folder to track imported packages.
<b>npm install</b>	Installs any requirements for the local node package based on the contents of package.json.
<b>npm install &lt;package-name&gt;</b>	Installs a package from NPM's own repository as well as any requirements specified in that package's package.json file.