

Npm install type

Wednesday, March 16, 2022 4:51 PM

- NPM support three types of installations

--save (default)

- We install packages that are required to run my application.
- They are needed both during development and production
- These dependencies are managed in **dependencies** section package.json
- These libraries are included in the distribution bundle
- Example
 - JQuery
 - React
 - Font-awesome
 - ...

```
$ npm install --save jquery font-aweson
```

--save-dev

- These are generally utilities or libraries needed only during development and not during production
- They can be elements like
 - Transpiler
 - Code test related package
 - Web pack
 - Typescript
 - Babel
- They will be included in devDependencies section of package.json
 - They will not be used during production

The screenshot shows a VS Code editor with a file explorer at the top containing files: delay.js, prime.js, test.js, app.js, package.json, and index.html. The main editor area displays the content of package.json, which includes fields for name, version, description, main, scripts, keywords, author, license, and devDependencies. The devDependencies section lists webpack and webpack-cli. To the right, a snippet of the dependencies section is visible, listing bootstrap, font-awesome, and jquery. At the bottom, the TERMINAL panel shows the command 'npm install --save-dev webpack webpack-cli' being executed, with output indicating that 120 packages were added and 121 packages were audited in 18 seconds.

```
{
  "name": "module-test",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [],
  "author": "",
  "license": "ISC",
  "devDependencies": {
    "webpack": "^5.70.0",
    "webpack-cli": "^4.9.2"
  }
}
```

```

D:\Myworks\Corporate\202203-infogain-react\module-test>npm install --save-dev webpack webpack-cli
added 120 packages, and audited 121 packages in 18s

17 packages are looking for funding
  run `npm fund` for details
  
```

found 0 vulnerabilities

Global Installation

- If a utility or tool is used again and again in different projects you can install them as global dependencies
- They need not be installed in each project
- They will not be seen in package.json
- It is like installing a new software in your system
- Hint:
 - npm itself is an npm package installed globally
- Generally most global package can also be installed --save-dev

```
$ npm install --g webpack webpack-cli
```

NOTE

- Problem with global dependency is it is not recorded in package.json
- So If you take this code to other machine you need to manually install those dependency
- We prefer --save-dev if possible