NPM stands for Node Package Manager and it is the package manager for the Node JavaScript platform. It put modules in place so that node can find them, and manages dependency conflicts intelligently. Most commonly, it is used to publish, discover, install, and develop node programs.

Some Important npm commands every developer should know are:

• NPM Install Command: Installs a package in the package.json file in the local node modules folder.

```
npm install
```

Example:

```
mpm WARN saveError ENOENT: no such file or directory, open '/User vastava/Documents/npm-tutorial/package.json'
npm notice created a lockfile as package-lock.json. You should come.
npm WARN enoent ENOENT: no such file or directory, open '/Users/ntava/Documents/npm-tutorial/package.json'
npm WARN npm-tutorial No description
npm WARN npm-tutorial No repository field.
npm WARN npm-tutorial No README data
npm WARN npm-tutorial No license field.
up to date in 1.375s
found 0 vulnerabilities
```

Image shows the use of "npm install" that install package.json and package-lock.json

• **NPM Uninstall Command:** Remove a package from the *package.json* file and removes the module from the local *node_modules* folder.

```
npm uninstall
```

Example:

```
npm WARN saveError ENOENT: no such file or directory, open '/Users/....../

/Documents/npm-tutorial/package.json'
npm WARN enoent ENOENT: no such file or directory, open '/Users/......

cuments/npm-tutorial/package.json'
npm WARN npm-tutorial No description
npm WARN npm-tutorial No repository field.
npm WARN npm-tutorial No README data
npm WARN npm-tutorial No license field.

removed 1 package in 0.642s
found 0 vulnerabilities
```

Image shows a package 'lodash' which is an npm package being un-installed using npm uninstall command

• **NPM Update Command:** This command updates the specified package. If no package is specified then it updates all the packages in the specified location.

```
npm update
```

Example:

the original lodash version 4.17.20 -> updated to 4.17.21 using npm update command

• NPM Global Update Command: This command will apply the update action to each globally installed package.

```
npm update -g
```

Example:

```
--MacBook-Pro npm-tutorial % sudo npm update -g
[Password:
/usr/local/bin/npm -> /usr/local/lib/node_modules/npm/bin/npm-cli.js
/usr/local/bin/npx -> /usr/local/lib/node_modules/npm/bin/npx-cli.js
+ npm@6.14.13
updated 4 packages in 2.901s
```

npm update -g updates all of the packages if it's available.

• **NPM Deprecate Command:** This command will deprecate the npm registry for a package, providing a deprecation warning to all who attempt to install it.

```
npm deprecate
```

• NPM Outdated Command: Checks the registry if any (or specified) package is outdated. It prints a list of all packages which are outdated.

```
npm outdated
```

Example:

```
Package Current Wanted Latest Location lodash 4.17.20 4.17.21 4.17.21 ls

-MacBook-Pro npm-tutorial % Incomplete the second seco
```

lodash package as indicated in the terminal is outdated that can be updated

NPM Doctor Command: Checks our environment so that our npm installation has what
it needs to manage our JavaScript packages.

```
npm doctor
```

Example:

```
S-MacBook-Pro npm-tutorial % npm doctor
           PING https://registry.npmjs.org/
npm WARN verifyCachedFiles Content garbage-collected: 90 (13333068 bytes)
npm WARN verifyCachedFiles Cache issues have been fixed
Check
                                     Value
                                                                   Recommend
ation
                                     ok
npm ping
                                     v6.14.13
                                                                   Use npm v
7.10.0
                                     v14.16.0
node -v
                                                                   Use node
v14.16.1
                                     https://registry.npmjs.org/
npm config get registry
                                     /usr/bin/git
which git
Perms check on cached files
                                     ok
Perms check on global node_modules
                                     ok
Perms check on local node_modules
                                     ok
Verify cache contents
                                     verified 4114 tarballs
```

• **NPM Initialize Command** Creates a package.json file in our directory. It basically asks some questions and finally creates a package.json file in the current project directory.

```
npm init
```

```
----MacBook-Pro npm-tutorial % npm init
This utility will walk you through creating a package.json file.
It only covers the most common items, and tries to guess sensible defaults
See 'npm help init' for definitive documentation on these fields
and exactly what they do.
Use 'npm install <pkg>' afterwards to install a package and
save it as a dependency in the package json file.
Press ^C at any time to quit.
package name: (npm-tutorial) geeksforgeeks
version: (1.0.0)
[description: Tutorial for geeksforgeeks articles
[entry point: (index.js) index.html
test command:
git repository:
keywords:
author: maestro1011
license: (ISC)
About to write to /Users/ ./Documents/npm-tutorial/package
.json:
  "name": "geeksforgeeks",
  "version": "1.0.0",
  "description": "Tutorial for geeksforgeeks articles",
  "main": "index.html",
  "dependencies": {
    "live-server": "^1.2.1",
    "lodash": "^4.17.20"
  "devDependencies": {},
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  "author": "maestro1011",
  "license": "ISC"
Is this OK? (yes) yes
```

image shows the steps involved in npm init command.

• **NPM Start Command** Runs a command that is defined in the *start* property in the scripts. If not defined it will run the *node server.js* command.

```
npm start
```

NPM Build Command: It is used to build a package.

npm build

Example:

```
New major version of npm available! 6.14.13 → 7.10.0

Changelog: https://github.com/npm/cli/releases/tag/v7.10.0

Run npm install -g npm to update!
```

Shows that there is a major update is available and can be updated using the command given after the changelog.

NPM List Command: Lists all the packages as well as their dependencies installed.

npm 1s

Example:

```
-MacBook-Pro npm-tutorial % npm ls
geeksforgeeks@1.0.0 /U....................../Documents/npm-tutorial
— live-server@1.2.1
— lodash@4.17.21
— react-router-dom@5.2.0
```

npm Is lists all of the npm packages installed in the package.json file.

• NPM Version Command: Bumps a package version.

npm version

Example:

```
-MacBook-Pro npm-tutorial % npm version
geeksforgeeks: '1.0.0',
npm: '7.10.0',
node: '14.16.0',
v8: '8.4.371.19-node.18',
uv: '1.40.0',
zlib: '1.2.11',
brotli: '1.0.9',
ares: '1.16.1',
modules: '83',
nghttp2: '1.41.0',
napi: '7',
llhttp: '2.1.3',
openssl: '1.1.1j',
cldr: '37.0',
icu: '67.1',
tz: '2020a',
unicode: '13.0'
```

Lists out all packages version installed or used in the project.

 NPM Search Command: Searches the npm registry for packages matching the search terms.

npm search

NAME	DESCRIPTION	AUTHOR	DATE
lodash	Lodash modular	=mathias	2021-
lodash-es	Lodash exported as	=mathias	2021-
@types/lodash	TypeScript	=types	2021-
grunt	The JavaScript Task	=cowboy =shama	2020-
eslint-plugin-you-dont-ne	Check methods you	=stevemao	2021-
ed-lodash-underscore			
lodash.debounce	The lodash method	=jdalton	2016-
lodash.merge	The Lodash method	=jdalton	2019-
lodash.get	The lodash method	=jdalton	2016-
ext	JavaScript	-tjholowaychuk	2019-
lodash.template	The Lodash method	=jdalton	2019-
lodash.isequal	The Lodash method	=jdalton	2017-
lodash.clonedeep	The lodash method	=jdalton	2016-
lodash.uniq	The lodash method	=jdalton	2016-
lodash.isplainobject	The lodash method	=jdalton	2016-
lodash.throttle	The lodash method	=jdalton	2016-
lodash.defaults	The lodash method	=jdalton	2016-
lodash.memoize	The lodash method	=jdalton	2016-
rambda	Lightweight and	=self_refactor	2021-
lodash.sortby	The lodash method	=jdalton	2016-

shows the description of the package lodash and all commits and author who made the changes.

• **NPM Help Command:** Searches npm help documentation for a specified topic. It is used whenever the user needs help to get some reference.

npm help

Example:

```
"MacBook-Pro npm-tutorial % npm help
npm <command>

Usage:

npm install install all the dependencies in your project
npm install <foo> add the <foo> dependency to your project
npm test run this project's tests
npm run <foo> run the script named <foo>
npm <command> -h quick help on <command>
npm -l display usage info for all commands
npm help <term> search for help on <term>
npm help npm more involved overview

All commands:

access, adduser, audit, bin, bugs, cache, ci,
completion, config, dedupe, deprecate, diff, dist-tag,
docs, doctor, edit, exec, explain, explore, find-dupes,
fund, get, help, hook, init, install, install-ci-test,
install-test, link, ll, login, logout, ls, org, outdated,
owner, pack, ping, prefix, profile, prune, publish,
rebuild, repo, restart, root, run-script, search, set,
set-script, shrinkwrap, star, stars, start, stop, team,
test, token, uninstall, unpublish, unstar, update,
version, view, whoami
```

• NPM Owner Command: Manages ownership of published packages. It is used to manage package owners.

npm owner