***NODEJs***

* **Introduction to NPM**

1. What is **npm**?

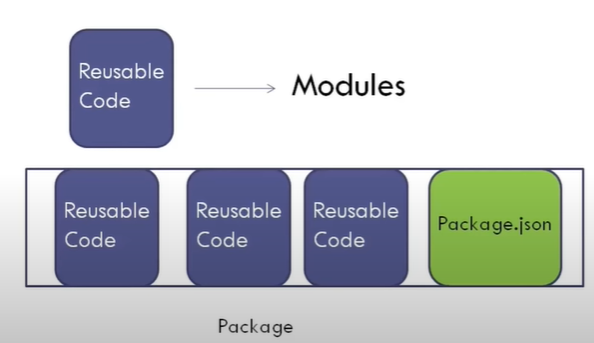
* **npm**(Node Package Manager) is the package manager for JavaScript.

1. Package Manager

* Problem 🡺 Code
* Same problem 🡺 Reuse the Code

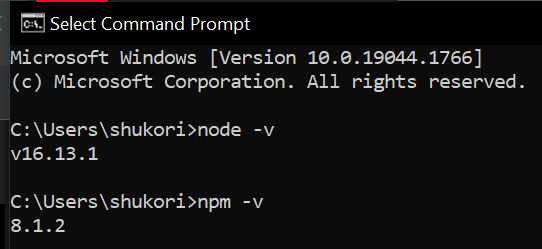
1. Modules and Package

* Individual files containing reusable code are called modules.
* Package is a directory with one or more modules and along with a special file called package.JSON
* package.JSON contains metadata about the package.



* **Getting Started with NPM**

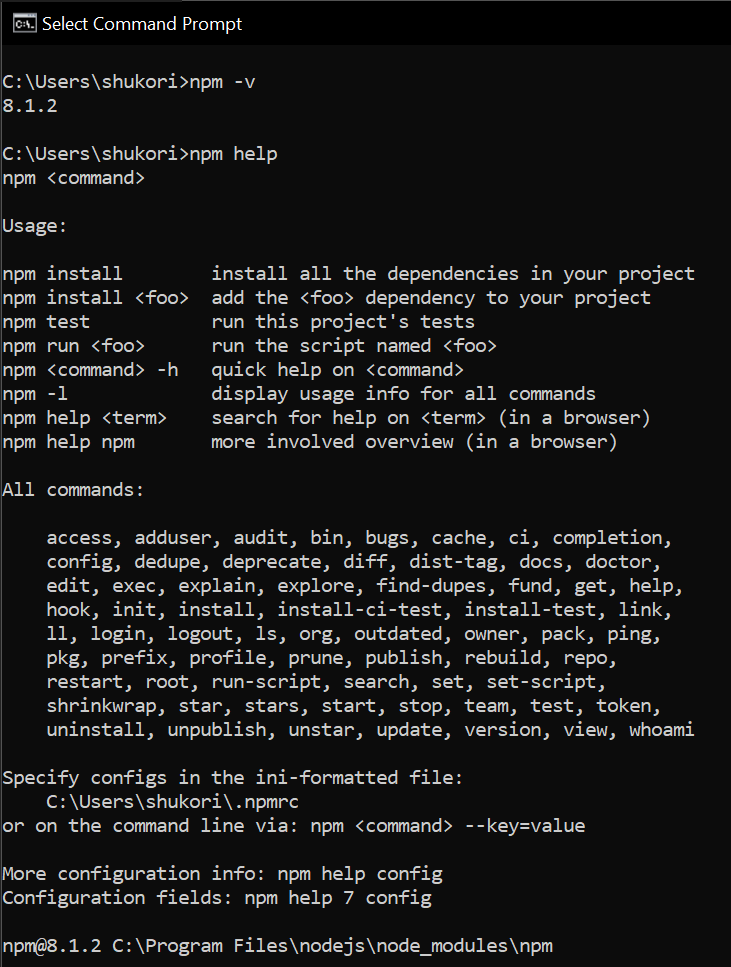
1. **NPM** is shipped with node.js so in order to have NPM on our machines we need to download and install node.js.
2. **node - v** gives the version of node installed on our system which in my system is **v16.13.1.**
3. Now that we have node installed, we can run **npm -v** and this gives the version of **npm** on our machines which in my system is **8.1.2.**



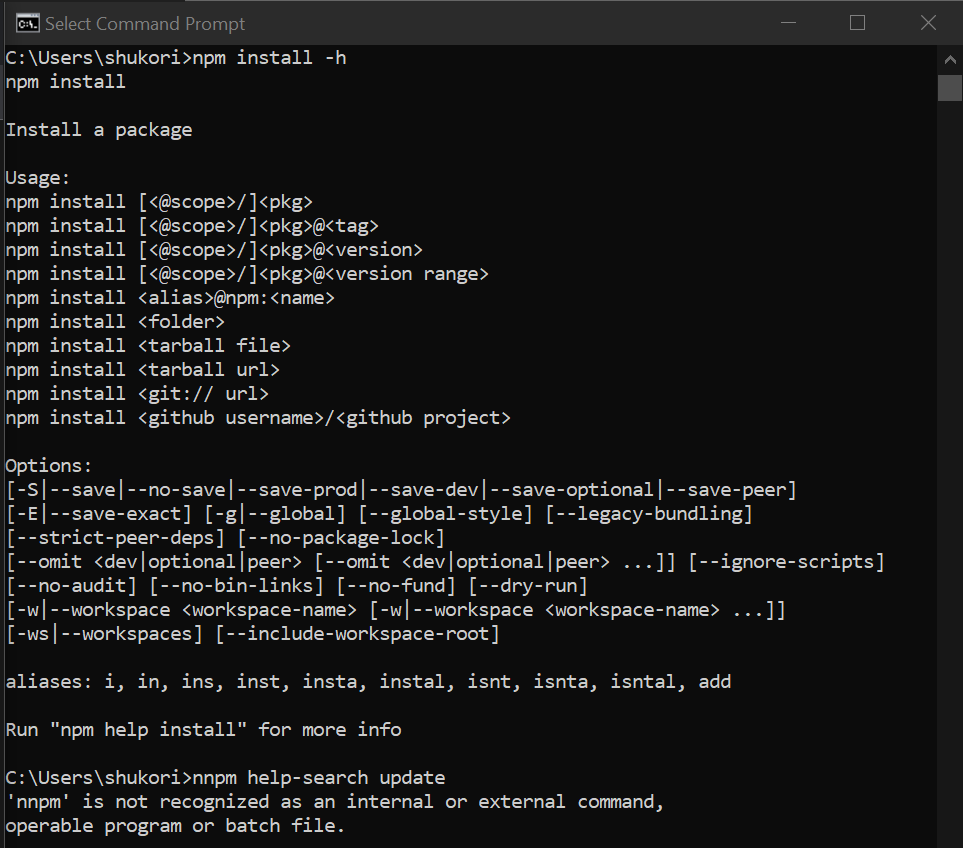
* **NPM Help**

1. **npm -help** shows us the typical usage of **npm**, i.e., it is **npm** followed by a command name

**npm <command>**

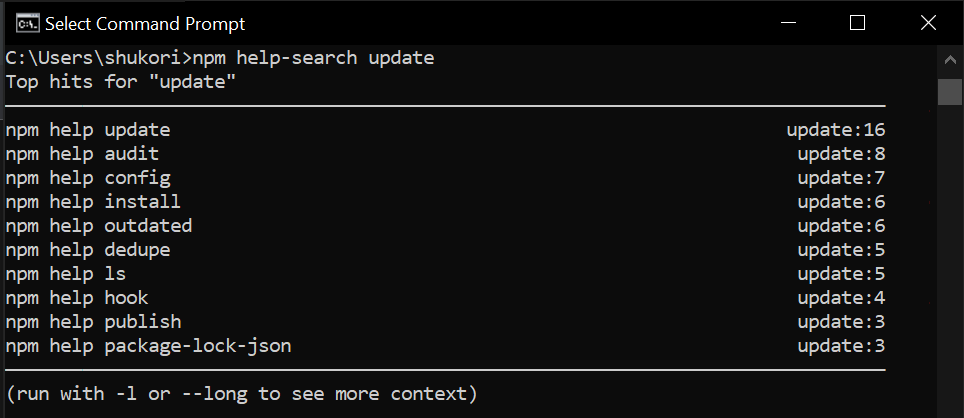
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1. **npm install -h** gives us the different ways we can use **npm** **install**.



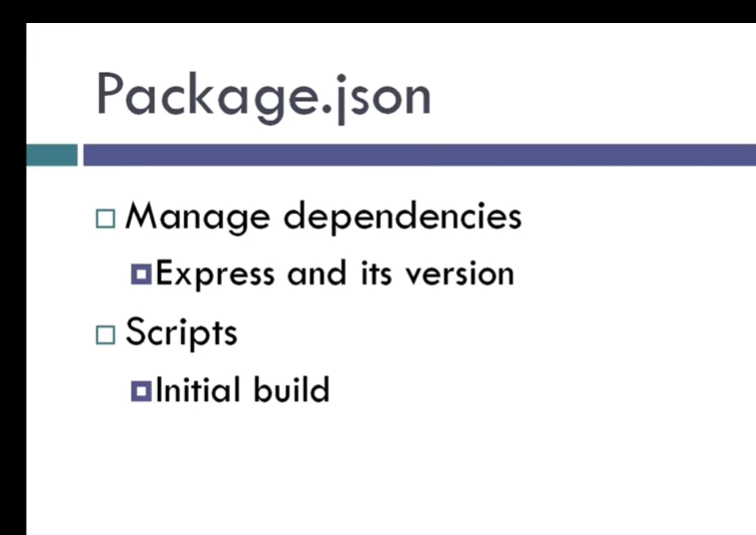
1. **npm help-search <text>:** it allow us to specify some text and it is going to search the **npm** documentation for that text.

Here is an example of npm **help-search update,** when we run this command, it gives us the **top hits** for the text update and their corresponding documentation in the browser.



* **Package JSON**

1. When we work on a project we are going to include a file called **package.json** in our project folder.
2. Using a **package.json** file has two main benefits:
   1. It lets us manage the dependencies of our project, for example, if I work on an old project that makes use of the Express framework then I can specify the Express package and the version of Express that my project depends on.
   2. It lets you add scripts that help with initial build of your project.



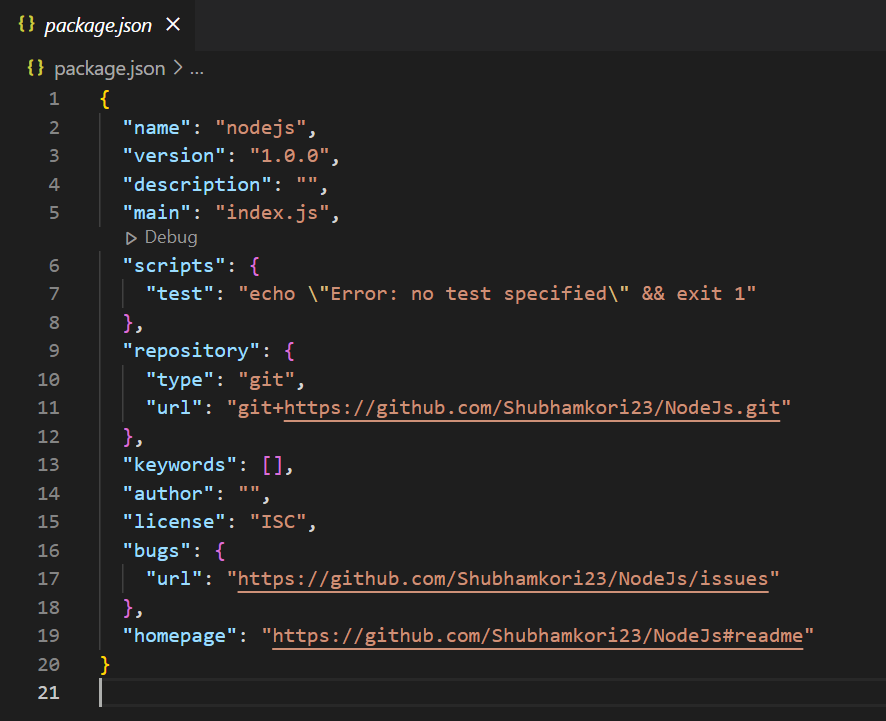
1. How to create a **package.json** file?

* We can use the “**npm init” or** “**npm init --yes”** command to create a **package.json** file.

1. “**npm init” vs** “**npm init --yes”:**

* “**npm init”** command asks us a series of questions but **npm** itself gives us the default answer to every question. Also, it gives the preview of how **package.json** file is going to look.
* “**npm init --yes”** command skip through the questions and just creates the **package.json** file.

1. Below is the **package.json** file which we created:

[](https://github.com/Shubhamkori23/NodeJs/blob/main/package.json)