

## **Package Management**

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## Bower

1. Install Bower

```
$ npm install -g bower
```

2. Run command

```
$ bower init
```

Note: It will ask you a few questions about your project/package and then generate a bower.json file for you.

3. Once you have a bower.json file, follow the steps to add dependencies

To install a dependency and automatically it to your bower.json's dependencies list.

```
$ bower install <pkg> --save  
$ bower install <pkg>#<version>  
$ bower install <pkg> --save-dev
```

you can open the bower.json and add your packages in the “dependencies” object.

### **bower.json**

```
{  
  "name": "any suitable name",  
  "description": "any suitable description",  
  "main": [ /*include your main modules  
here*/ "sample.js" ],  
  "dependencies": { /*package name with  
version number*/ },  
  "moduleType": [ "amd", "globals",  
    "node" ],  
  "keywords": [ "any suitable keywords"  
  ],  
  "authors": [ "Author's name" ],  
  "license": "MIT",  
  "ignore": [ "**/*.\"", "node_modules",  
    "bower_components", "test", "tests"  
  ],  
  "private": true}
```

4. Run command

```
$ bower install
```

5. More Commands

```
$ bower search
$ bower help
$ bower ls
$ bower ls --depth=0
```

**\$ gunzip <file>.gz # to extract the zip file**

## NPM

1. Run command

```
$ npm init
```

Note: It will ask you a few questions about your project/package and then generate a package.json file for you.

2. Once you have a package.json file, follow the steps to add dependencies

```
$ npm install <pkg> --save
```

```
$ npm install <pkg> --save-dev
```

OR

you can open the package.json and add your packages in the “dependencies” object.

3. Run command

```
$ npm install
```

## Difference between dependencies and devDependencies:

TBD

## Other Useful Commands

```
ls | wc -l      # List the folders
npm root        # show the path of node_modules

npm cache clean # To clear cache
```

```
npm list / npm list -g --depth=0 # To list npm
npm ls --depth=0
node --debug-brk + node-inspector    # debug node
```

#### NVM Usage

```
rm -rf node_modules/*
./~/.nvm/nvm.sh
NODE_VERSION=`cat .nvmrc`
nvm use $NODE_VERSION
nvm install
npm install
```

## References

<https://bower.io/>  
<https://www.npmjs.com/>  
<http://gruntjs.com/>  
<https://devcenter.heroku.com/articles/node-best-practices>