

# The Difference Between **NPM** & **Yarn**

# What is Package Manager?

A package manager is a tool to create project environments and easily import external dependencies. By using a package manager we could able to automates the process of installing, upgrading, configuring, and removing the dependencies from the project environment.

# What is NPM?

NPM is commonly known as node package manager, maintained by NPM, Inc. NPM is the popular package manager among JavaScript developers. It is the default package that is automatically installed whenever we install

Node.js on our system.

(<https://www.npmjs.com/>)

# What is Yarn?

Yarn package manager developed in 2016 by Facebook. It is a another package manager for the JavaScript programming language. Yarn provides speed, consistency, stability, and security as an alternative to NPM.(<https://yarnpkg.com/>)

# Speed

The main difference between NPM and Yarn is the package installation process. Yarn installs packages in parallel. Yarn is optimized to fetch and install multiple packages at once.

NPM will perform a serial installation process.  
It install every package independently.

So in this case **Yarn has a speed installation process than NPM.**

# Security

NPM package manager has perform a security check on each install. Yarn checks behind the scenes to ensure you're not downloading any rogue scripts and other files that can conflict with your project's dependencies. **Security is one of Yarn's core features.**

# Ease of use

NPM and Yarn both package managers are user-friendly and have a good user experience.

# Basic Commands

**To see list of commands:**

NPM - npm

Yarn - yarn

**Install dependencies from package.json:**

NPM - npm install

Yarn - yarn

**Install a package and add to package.json:**

NPM - npm install package --save

Yarn - yarn add package

**Install a devDependency:**

NPM - npm install package --save-dev

Yarn - yarn add package --dev

### **Remove a dependency:**

NPM - `npm uninstall package --save`

Yarn - `yarn remove package`

### **Upgrade a package to its latest version:**

NPM - `npm update --save`

Yarn - `yarn upgrade`

### **Install a package globally:**

NPM - `npm install package -g`

Yarn - `yarn global add package`



