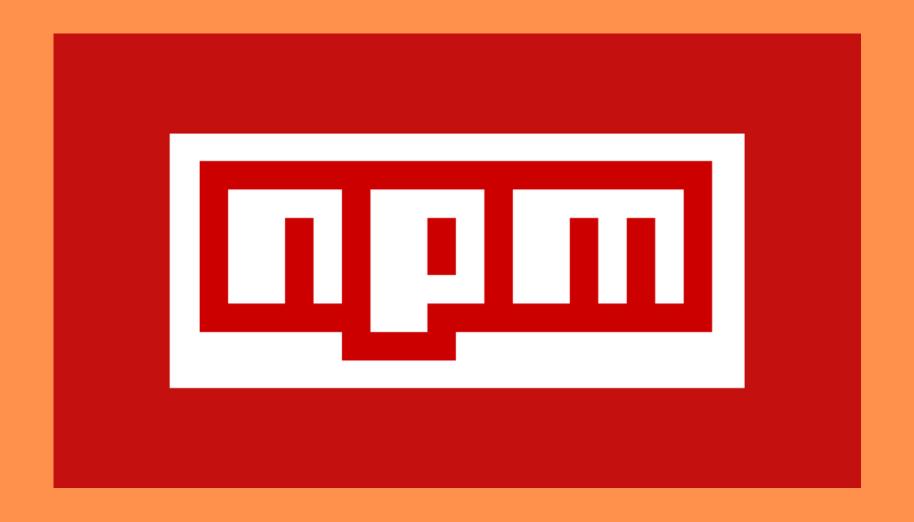# NPM
VS
NPX

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Node Package Manager

- npm is the default package manager for Node.js.
- It is used for installing, managing, and publishing packages.

Installing Packages

- To install a package globally: **npm install -g packageName**
- To install a package locally: **npm install packageName**

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Running Installed Packages

- To run a globally installed package: **packageName**
- To run a locally installed package: **npx packageName**

Scripts in package.json

- npm is often used to run scripts defined in the **package.json** file.

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Version Management

- Manages project dependencies through the **package.json** file.

Example

- Install a package globally: **npm install -g create-react-app**
- Run a script defined in package.json: **npm start**

Node Package eXecute

- npx is a package runner tool that comes with npm 5.2.0 and higher.

Temporary Package Execution

- It is used for executing packages without the need to install them globally or locally.

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Running Latest Version

- npx always uses the latest version of a package, ensuring you are not stuck with an outdated version.

Execute One-Time Commands

- Ideal for running packages once without polluting the global or local package space.
- Example: **npx create-react-app my-react-app**

....

Run Local Packages

- Allows running binaries from locally installed packages without needing to install them globally.
- Example: **npx eslint --init**

Example

- Run a one-time command with a specific package version: **npx -p package@version command**

summary

npm is mainly for package management and script execution based on the package.json file, while npx is focused on executing packages without the need for prior installation, making it suitable for one-time or infrequently used commands.