[npm Commands] (CheatSheet)

1. Getting Started

- npm init: Initialize a new Node.js project.
- npm init -y: Skip questionnaire and create a new Node.js project with default settings.

2. Installing Packages

- npm install <package_name>: Install α package locally.
- npm install -g <package_name>: Install α package globαlly.
- npm install <package_name>@<version>: Install a specific version of a package.
- npm install <package_name> --save: Install and add the package to the project's dependencies.
- npm install <package_name> --save-dev: Install and add the package to the project's dev dependencies.

3. Updating Packages

- npm update: Update all packages in your project.
- npm update <package_name>: Update α specific package.
- npm outdated: List outdated packages.

4. Removing Packages

npm uninstall <package_name>: Remove a package from your project.

5. Listing Packages

- npm list: List installed packages.
- npm list -g --depth 0: List globally installed packages.

6. Package Information

- npm view <package_name>: View registry info for a package.
- npm view <package_name> versions: View all available versions of a package.



7. Running Scripts

- npm run <script_name>: Run a script defined in the package.json.
- npm start: Start a package.
- npm test: Run test scripts.

8. Publishing Packages

- npm publish: Publish a package.
- npm login: Log in to the npm registry.
- npm whoami: Display npm user name.

9. Miscellaneous Commands

- npm cache clean --force: Clean the npm cache.
- npm config list: List npm configuration.
- npm help <term>: Search for help on a term.

10. Troubleshooting

- npm doctor: Check your environment for common issues.
- npm rebuild: Rebuild a package.

11. Version Handling

- npm version major: Bump major version.
- npm version minor: Bump minor version.
- npm version patch: Bump patch version.

12. Exploring Packages

• npm explore <package_name> -- npm run <script>: Explore and optionally run a script in a package.

13. Security

- npm audit: Audit your project for vulnerabilities.
- npm audit fix: Auto-fix vulnerabilities.

14. Linking Packages

- npm link: Symlink a package folder.
- npm link <package_name>: Use α locally developed package in α local install.

15. Configuring NPM

- npm set init-author-name 'Your Name': Set author name for npm init.
- npm config set registry <registry_url>: Set a custom registry.

16. NPM CI/CD

• npm ci: Clean install based on package-lock.json.

17. NPM Cache

• npm cache verify: Verify the contents of the cache.

18. Deprecating Packages

 npm deprecate <package_name> "<message>": Deprecate a package with a message.

19. Peer Dependencies

 npm install <package_name> --save-peer: Add a package as a peer dependency.

20. Optional Dependencies

npm install <package_name> --save-optional: Add α pαckage αs αn optional dependency.

21. Package Lock

• npm shrinkwrap: Create an npm-shrinkwrap.json file.

22. NPM for Organizations

- npm access public <package_name>: Set package access to public.
- npm access restricted <package_name>: Set package access to restricted.

23. Checking for Engine Compatibility

• npm engine-strict: Enforce engine compatibility.

24. NPM Funding

• npm fund: Display information about funding.

25. NPM Hooks

npm hook add <url> <package_name>: Add α hook for α pαckage.

26. NPM Orgs

- npm org create <orgname> <user>: Create an organization.
- npm team create <org:team> <user>: Create a team within an organization.

27. NPM Tokens

- npm token create: Create an authentication token.
- npm token list: List all tokens.

28. NPM Token Management

• npm token revoke <token>: Revoke α token.

29. Scoped Packages

- npm install @<scope>/<package_name>: Install α scoped package.
- npm publish --access=public: Publish a scoped package publicly.

30. Git Dependencies

- npm install <git-host>:<git-user>/<repo-name>: Install a package from a git repository.
- npm install <github username>/<repository>#<branch>: Instαll directly from α GitHub repository.

31. Handling Global Packages

- npm ls -g --depth=0: List globally installed packages without dependencies.
- npm root -g: Find the path of globally installed packages.

32. NPM Scripts and Custom Commands

• npm set-script <name> "<command>": Add custom scripts to your package.json.

33. Environment Variables

- npm config set <key> <value>: Set an environment variable in npm.
- npm config get <key>: Get the value of an environment variable.

34. NPM Pack and Link

- npm pack: Pack a package into a .tgz file.
- npm link <package>: Link α local package to use it in another project.

35. NPM Diff

npm diff: Compare the dependencies or versions.

36. NPM Dist Tags

- npm dist-tag add <package>@<version> [<tag>]: Add α tag to α package version.
- npm dist-tag rm <package> <tag>: Remove α tαg from α pαckage.

37. NPM Search

npm search <term>: Search for packages related to the term.

38. NPM Teams

- npm team add <team> <user>: Add α user to α team.
- npm team remove <team> <user>: Remove α user from α team.

39. NPM Version Management

• npm set version <version>: Force npm to use α specific version.

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npm view <package_name> version: Check the latest version of a package.

40. NPM Registry Interaction

- npm ping: Check if you can communicate with the registry.
- npm whoami: Check the username logged in to the registry.

41. Package Restoration

npm dedupe: Reduce duplication in the node_modules folder.

42. Handling Local Packages

- npm link: Create a symbolic link from a local package to node_modules.
- npm unlink <package>: Remove the symbolic link.

43. Shrinkwrapping

npm shrinkwrap: Lock down the versions of a package's dependencies.

44. NPM Bugs and Support

- npm bugs <package>: Open the issues page for a package.
- npm support <package>: Open the support page for a package.

45. NPM Cache Control

npm cache add <tarball file>: Add a package tarball to your cache.

46. NPM Networks and Proxies

- npm config set proxy <url>: Set a proxy for npm.
- npm config set https-proxy <url>: Set an HTTPS proxy for npm.

47. NPM and Docker

npm prune: Remove extraneous packages.

48. NPM Package.json Fields

npm pkg set <field>=<value>: Directly set a field in package.json.

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49. NPM Completion

• npm completion: Tab completion for npm commands.

50. NPM Registry Management

• npm set registry <url>: Change the registry URL.