pnpm Fast Node package manager

CONCEPTS

pnpm keeps one content-addressable store on disk and hard-links files into node_modules, so repeat installs are fast and cheap.

Registry npm packages
↓ fetch once
Global store shared files
↓ hard links
node_modules/.pnpm virtual store
↓ symlinks
node_modules direct deps only

node_modules holds only your direct dependencies, so code that imports an undeclared package fails instead of working by accident.

INSTALL AND ADD

pnpm install
Install all dependencies

pnpm add *<pkg>*
Add a dependency

pnpm add -D *<pkg>*
Add a dev dependency

pnpm add *<pkg>*@*<version>*
Add a specific version or tag

pnpm add -g *<pkg>*
Install a global package

pnpm install --frozen-lockfile
Fail if lockfile needs changes

pnpm install --prod
Skip devDependencies

REMOVE AND UPDATE

pnpm remove *<pkg>*
Remove a dependency

pnpm update
Update within package.json ranges

pnpm update *<pkg>*
Update one package

pnpm update --latest
Ignore ranges, go to latest

pnpm update -i
Pick updates interactively

REMOVE AND UPDATE (cont.)

pnpm outdated
List outdated packages

RUN SCRIPTS

pnpm run *<script>*
Run a package script

pnpm *<script>*
Shorthand for pnpm run

pnpm test
Run the test script

pnpm exec *<cmd>*
Run a binary from node_modules/.bin

pnpm dlx *<pkg>* **[args]**
Fetch and run without installing

INSPECT

pnpm list
Show installed packages as a tree

pnpm why *<pkg>*
Show what depends on a package

pnpm audit
Check for known vulnerabilities

WORKSPACES

pnpm -r *<cmd>*
Run a command in every package

pnpm --filter *<pkg>* *<cmd>*
Run in one package

pnpm --filter *<pkg>*... *<cmd>*
Package and its dependencies

pnpm --filter ...*<pkg>* *<cmd>*
Package and its dependents

pnpm --filter "...[origin/main]" *<cmd>*
Packages changed since a ref

pnpm-workspace.yaml

```
packages:
  - 'packages/*'
  - '!**/test/**'
```

CATALOGS AND SETTINGS

pnpm approve-builds
Allow dependency build scripts