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

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

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

`pnpm outdated`
List outdated packages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