PDM Modern Python package manager

CONCEPTS

> Commit pyproject.toml and pdm.lock; pdm install reproduces the same set anywhere.

pyproject.toml what you want
↓ `pdm lock`
pdm.lock exact pins + hashes
↓ `pdm sync`
Virtualenv installed packages
↓ `pdm run`
Your command runs in the env

> PDM keeps dependencies in standard pyproject.toml (PEP 621) fields, not a private format.

PROJECT SETUP

`pdm init`
Create pyproject.toml interactively

`pdm use <python>`
Select the project interpreter

ADD AND REMOVE

`pdm add <pkg>`
Add a dependency and install it

`pdm add <pkg>==<ver>`
Add with a version pin

`pdm add -d <pkg>`
Add a development dependency

`pdm add -G <group> <pkg>`
Add to a named group

`pdm remove <pkg>`
Remove a dependency

LOCK AND INSTALL

`pdm install`
Install from the lock, locking if stale

`pdm lock`
Resolve and write pdm.lock

`pdm sync`
Install exactly what the lock says

LOCK AND INSTALL (cont.)

`pdm install --frozen-lockfile`
Install without touching the lock

`pdm install --check`
Fail if the lock is out of date

`pdm install --prod`
Skip dev dependencies

`pdm install -G <group>`
Include an extra group

UPDATE

`pdm update`
Update all packages and re-lock

`pdm update <pkg>`
Update one package

`pdm outdated`
List packages with newer versions

RUN

`pdm run <cmd>`
Run a command in the env

`pdm run python <file>`
Run a script with the env's Python

`pdm run <script> [args]`
Run a [tool.pdm.scripts] entry

INSPECT

`pdm list`
List installed packages

`pdm list --tree`
Show the dependency tree

`pdm list --tree -r`
Reverse tree: who needs this?

BUILD AND PUBLISH

`pdm build`
Build sdist and wheel into dist/

`pdm publish`
Build and upload to PyPI

`pdm export -o requirements.txt`
Export the lock as requirements