Hatch Python project manager

CONCEPTS

Environments are created on first use and rebuilt when their dependencies change in pyproject.toml.

pyproject.toml envs, scripts, version
↓ `hatch run`
Environment isolated virtualenv
↓ `hatch build`
dist/ sdist and wheel
↓ `hatch publish`
Index PyPI
From source to release

PROJECTS

`hatch new <name>`
Create a project skeleton

ENVIRONMENTS

`hatch shell`
Enter the default env shell

`hatch shell <env>`
Enter a named env shell

`hatch env create`
Create the default env

`hatch env show`
List the configured envs

RUNNING COMMANDS

`hatch run <cmd>`
Run a command in the default env

`hatch run <env>:<cmd>`
Run a command in a named env

`hatch run <script>`
Run a script defined in config

`hatch run +py=3.12 <env>:<cmd>`
Select matrix envs by variable

TESTING AND QUALITY

`hatch test`
Run tests in the matrix

TESTING AND QUALITY (cont.)

`hatch test -c`
Measure coverage

`hatch test -a`
Test every matrix env

`hatch fmt`
Format and fix lint errors

`hatch fmt --check`
Check only, change nothing

VERSIONING

`hatch version`
Show the project version

`hatch version <x.y.z>`
Set an exact version

`hatch version patch`
Bump the patch number

`hatch version minor`
Bump the minor number

BUILD AND PUBLISH

`hatch build`
Build sdist and wheel into dist/

`hatch build -t wheel`
Build one target only

`hatch publish`
Upload artifacts to the index

DEPENDENCIES AND PYTHON

`hatch dep show requirements`
List env dependencies

`hatch python install <version>`
Install a managed Python

CONFIG IN PYPROJECT.TOML

`[tool.hatch.envs.<name>]`
Env deps and scripts