scverse cookiecutter template

Follow along: scverse.org/cookiecutter-scverse-presentation

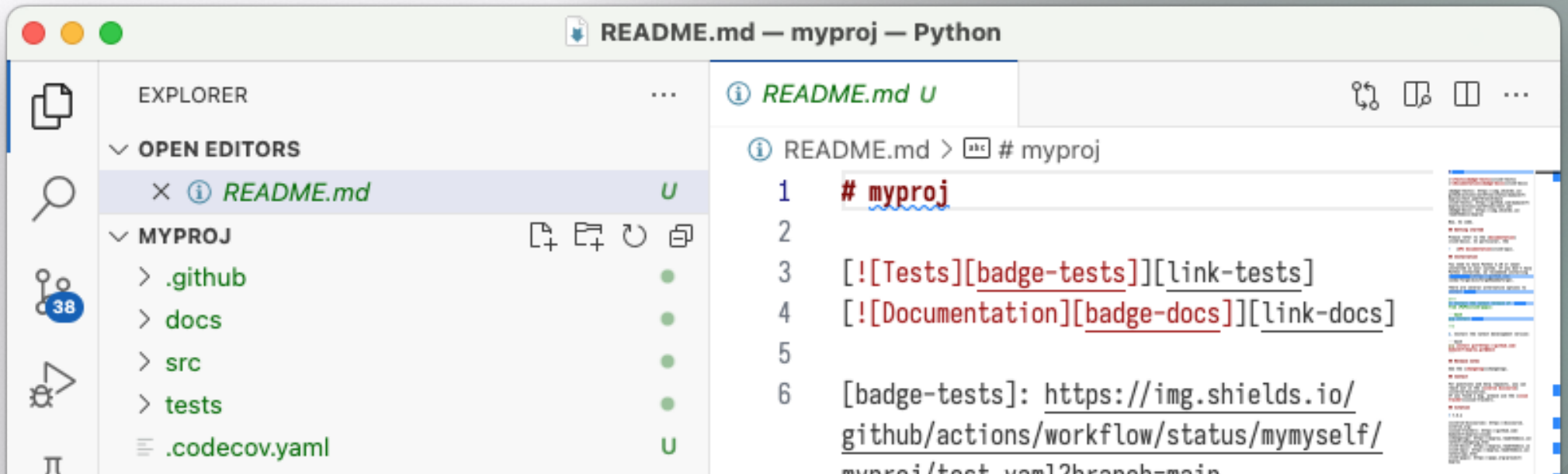
tool installs

- Install using a package manager or installer:
  - `code` : code.visualstudio.com/download
  - `hatch` : hatch.pypa.io/latest/install
  - `git` : github.com/git-guides/install-git
  - `uv` : docs.astral.sh/uv/getting-started/installation
    or `pipx` : pipx.pypa.io/stable/installation
- Install using a package manager, `pipx`, or `uv`:

```
$ pipx/uv install cruft pre-commit
```

creating the project

```
$ cruft create https://github.com/scverse/cookiecutter-scverse
  project_name (project-name): myproj
  […]
$ code myproj
```



environment management

Hatch envs basic usage:

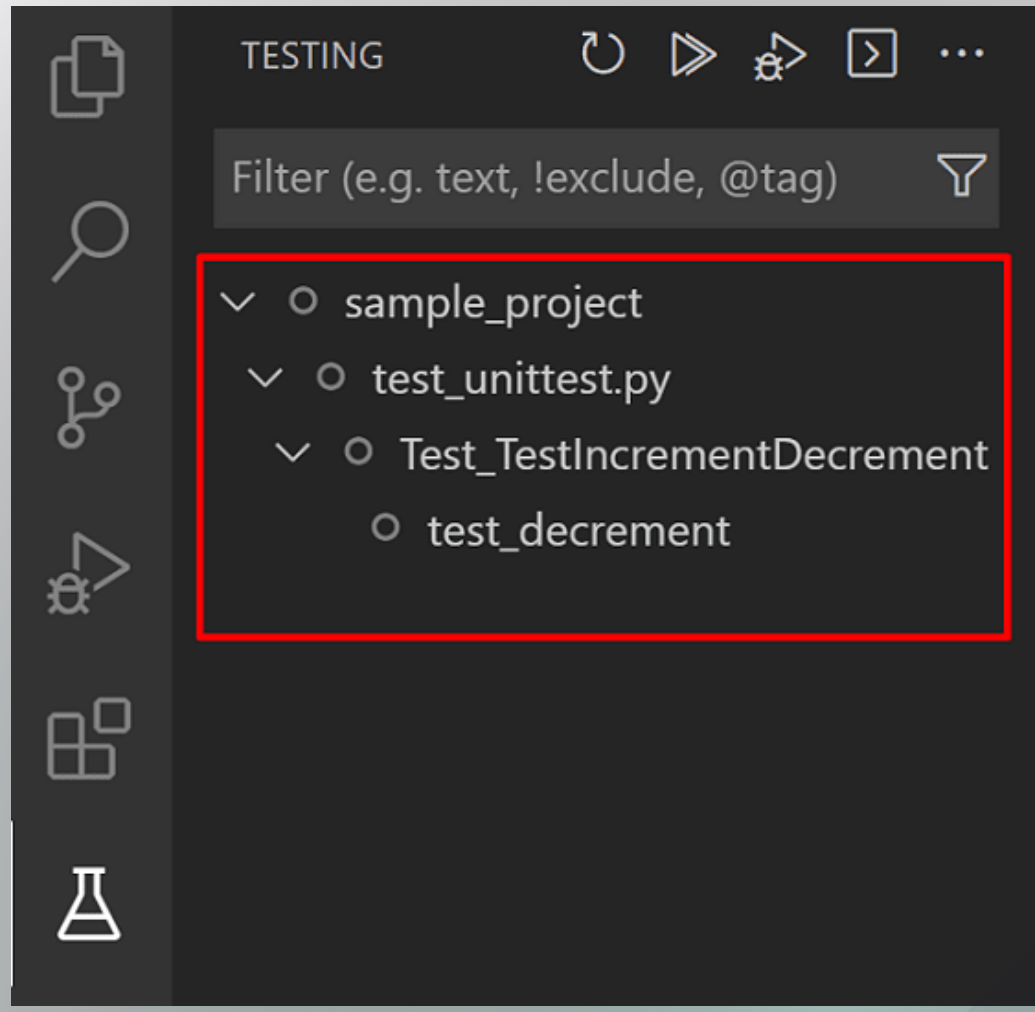
```
$ hatch run [env:]command [...args] # e.g. `… docs:build -T`
$ hatch test [...args]
$ hatch env remove <name> # or `hatch env prune` for all
$ hatch find hatch-test
~/.local/share/hatch/env/virtual/myproj/FsejNibV/hatch-test.py3.12
[…]
```

Tell VS Code:

⌘|^+␣+P → Python: Select Interpreter

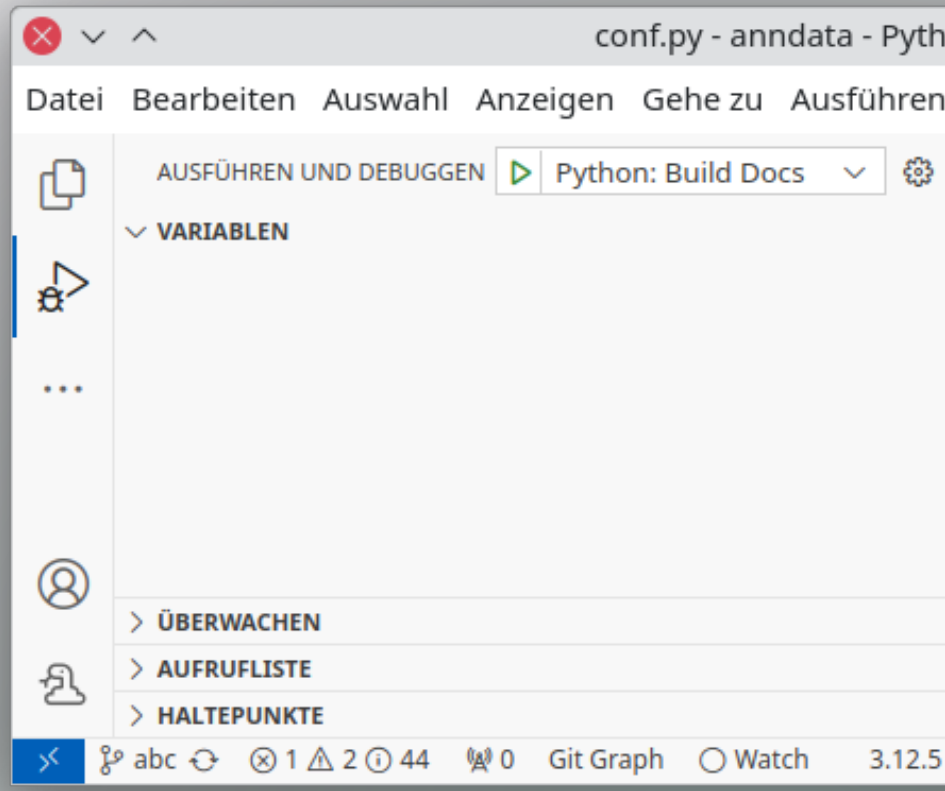
running tests

```
$ hatch test --help
[…]
Options:
  -r, --randomize
  -p, --parallel
  -c, --cover
  -a, --all
  -py, --python=X.Y
  -i, --include=VAR=VAL
  -x, --exclude=VAR=VAL
  -s, --show
```



building docs

```
$ hatch run docs:build
$ hatch run docs:open
$ hatch run docs:clean
```



formatting and linting

VS Code:

```
{
  "[python]": {
    "editor.formatOnSave": true,
    "editor.defaultFormatter": "charliermarsh.ruff",
    "editor.codeActionsOnSave": { ... },
  }, ...
}
```

CLI: `pre-commit` (or `hatch run pre-commit`)

```
$ pre-commit install # `git commit` hook
$ pre-commit run --all-files
```

Committing code

- Use PRs, don't push to `main`
- Set up pre-commit.ci, codecov.io on github.com/<you>/<yourpackage>/settings/installation