

scverse cookiecutter template

Follow along: [scverse.org/
cookiecutter-scverse-
presentation](https://scverse.org/cookiecutter-scverse-presentation)



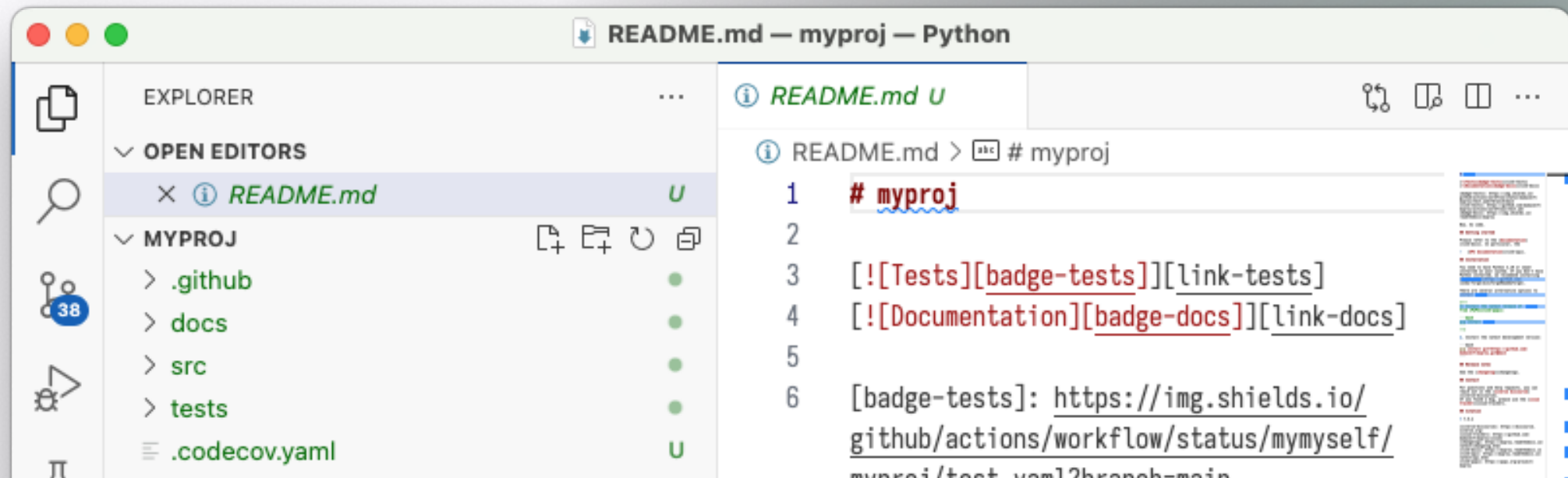
tool installs

- Install using a package manager or installer:
 - `code` , `hatch` , & `git`
 - `uv` or `pipx`
- Install using a package manager, `pipx` , or `uv` :
 - `cruft` & `pre-commit`

```
$ pipx install cruft pre-commit # or  
$ uv tool 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**:

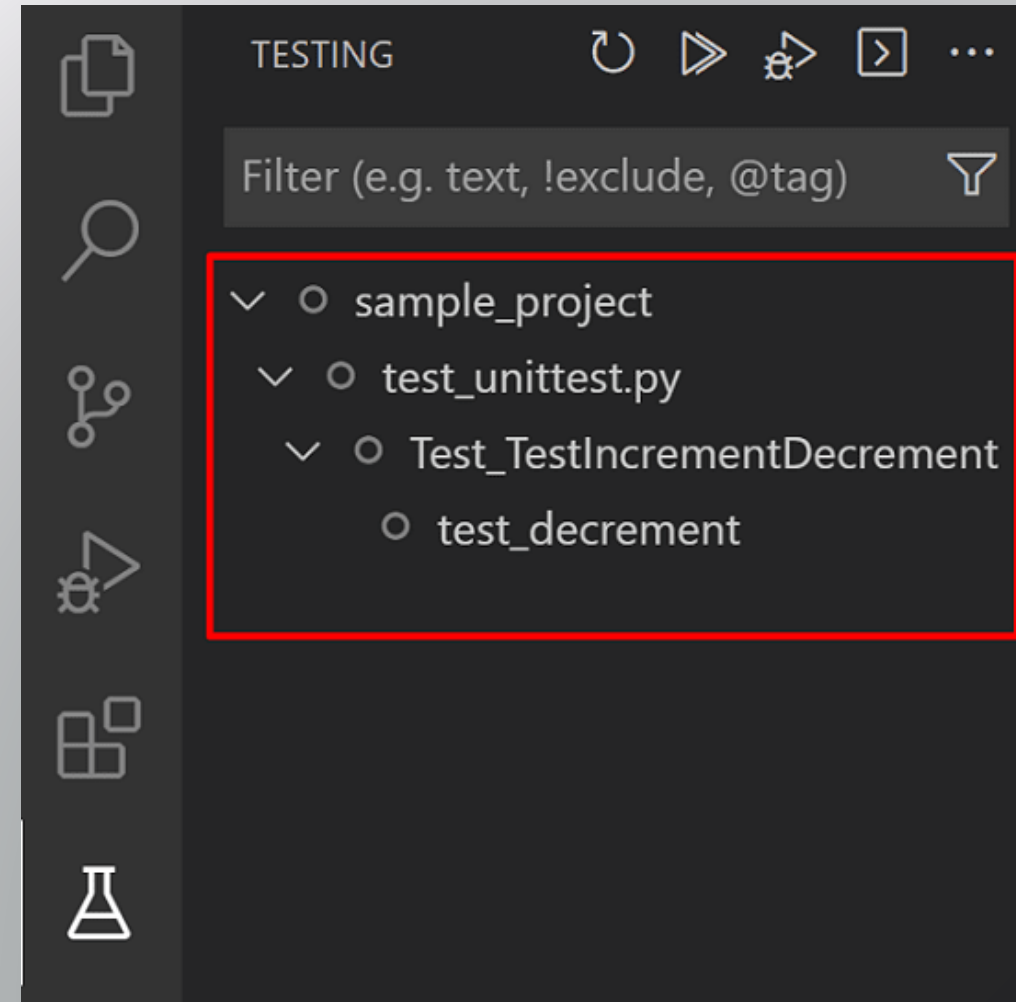
```
$ hatch run [env:]command [...args] # e.g. `... docs:build -T`  
$ hatch test [...args]  
$ hatch env remove <name> # or `hatch env prune` for all  
$ hatch find hatch-test  
~/.local/share/hatch/env/virtual/myproj/FsejNibV/hatch-test.py3.12  
[...]
```

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  
...otherwise same as `pytest`
```

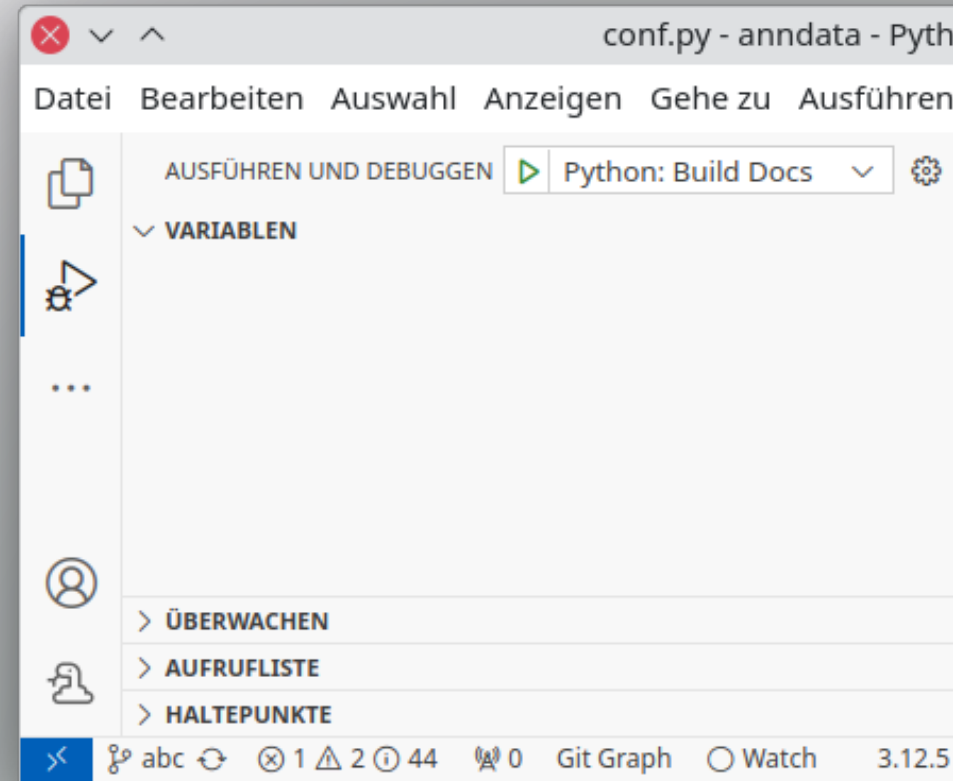


building docs

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

See `pyproject.toml`:

```
[tools.hatch.envs.docs]  
scripts.build = "..."  
...
```



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
```

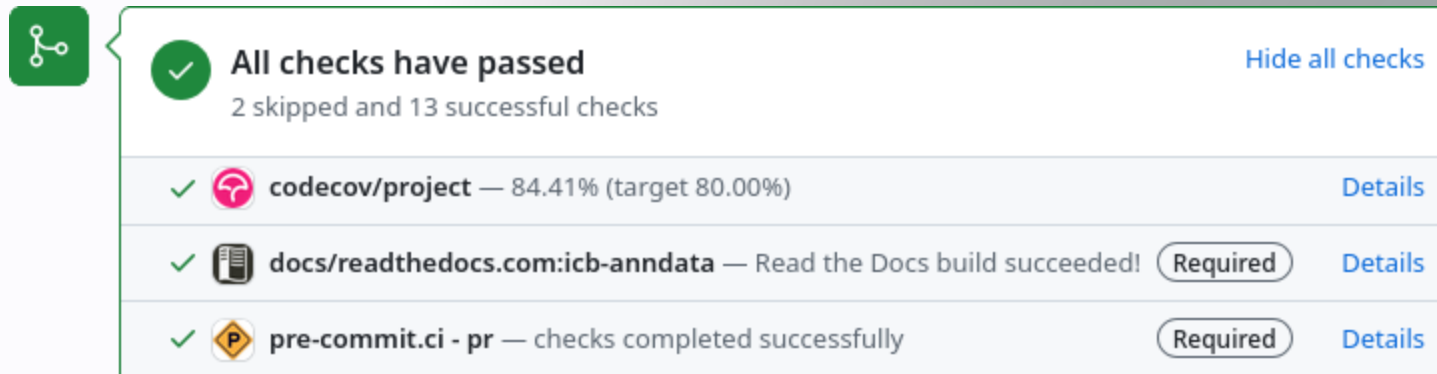
existing project

- Simple project
 1. Instantiate template
 2. Replace `src/*` directory with your package
 3. Edit `[project]` table in `pyproject.toml`
- Complex project
 1. Step by step PRs: formatter, ...
 2. We can help!

follow along

committing code

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



A screenshot of a GitHub Actions workflow status card. The card has a green header with a checkmark icon and the text "All checks have passed" and "2 skipped and 13 successful checks". Below the header is a table of checks:

Check Name	Status	Details
codecov/project — 84.41% (target 80.00%)	✓	Details
docs/readthedocs.com:icb-anndata — Read the Docs build succeeded!	✓	Details
pre-commit.ci - pr — checks completed successfully	✓	Details

ReadTheDocs

- Set up readthedocs.org and its [PR previews](#):

Warning

This page [was created](#) from a pull request ([#1616](#)).

Thank you