

scverse cookiecutter template

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



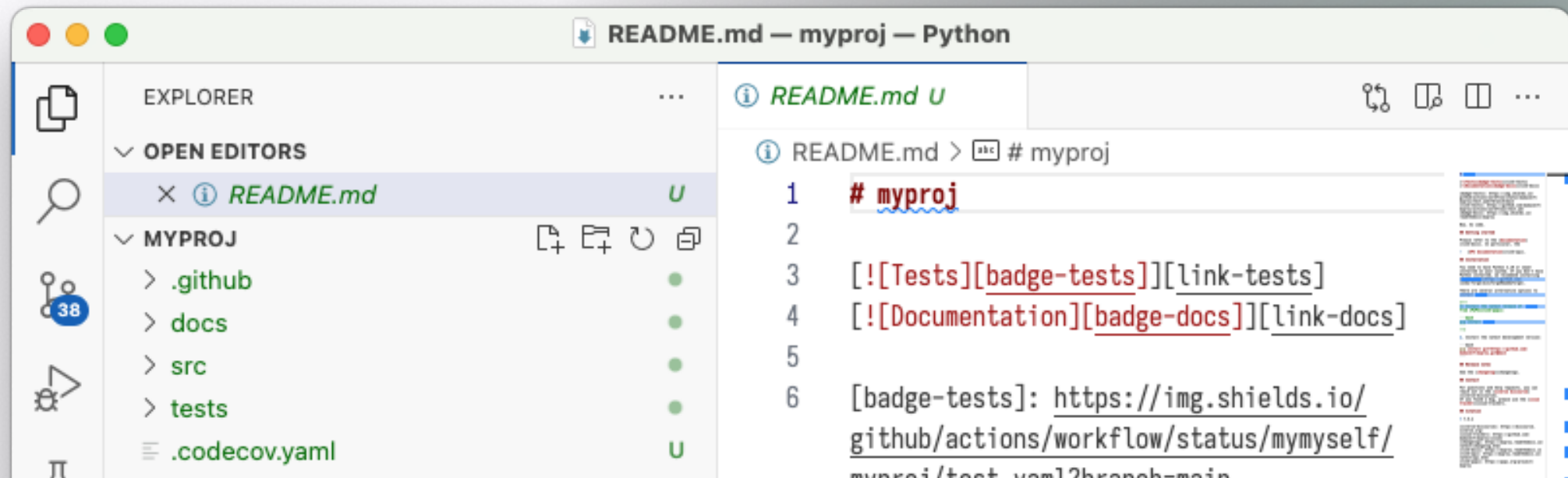
tool installs

- Install using a package manager or installer:
 - `code` : 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**:

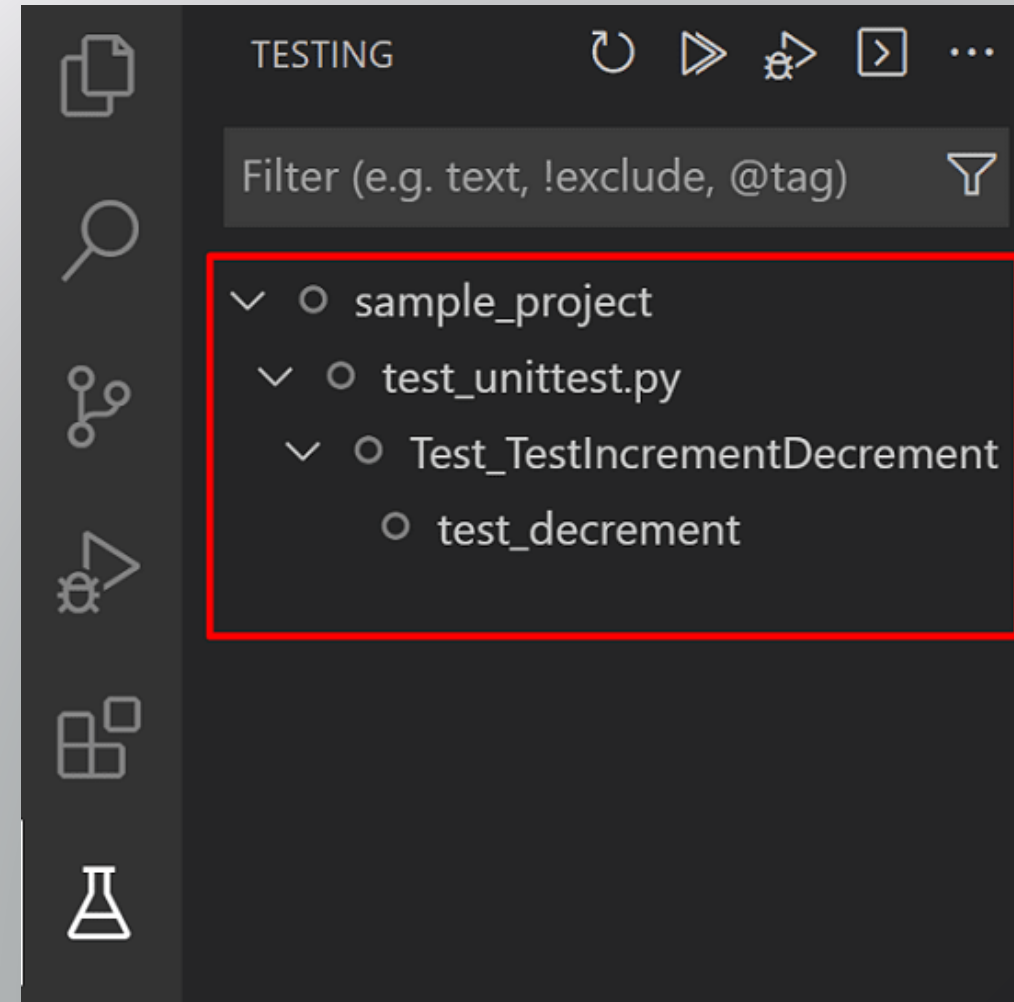
```
$ hatch run [env:]command [...args] # e.g. `... docs:build -T`  
$ hatch test [...args]  
$ hatch env remove <name> # or `hatch env prune` for all  
$ hatch find hatch-test  
~/.local/share/hatch/env/virtual/myproj/FsejNibV/hatch-test.py3.12  
[...]
```

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

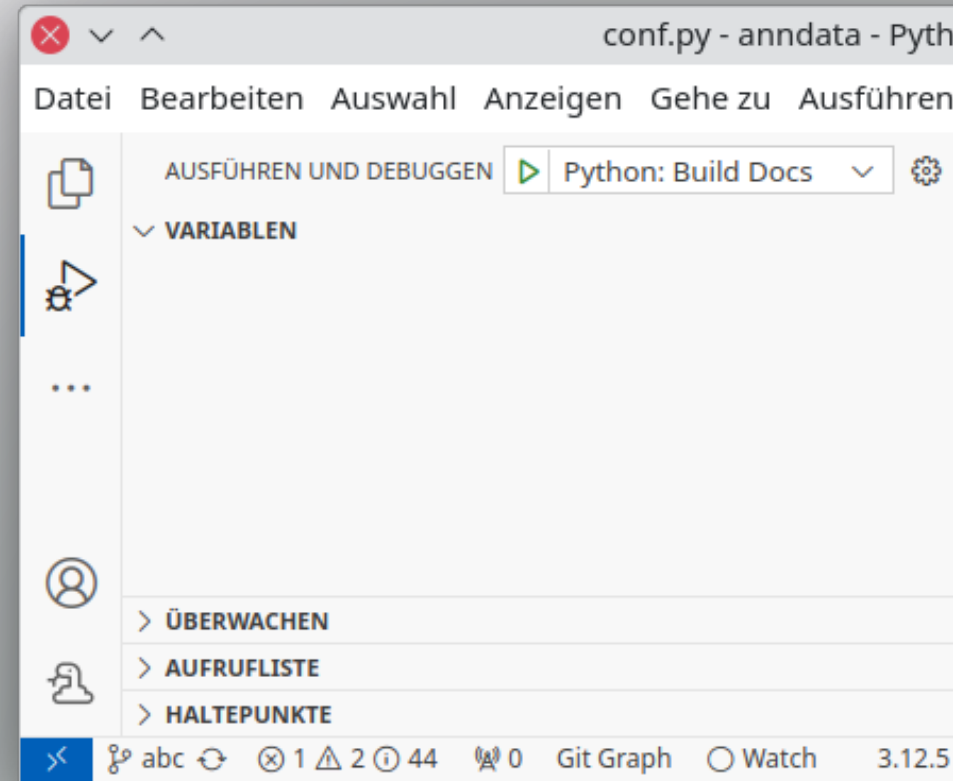


building docs

```
$ 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:

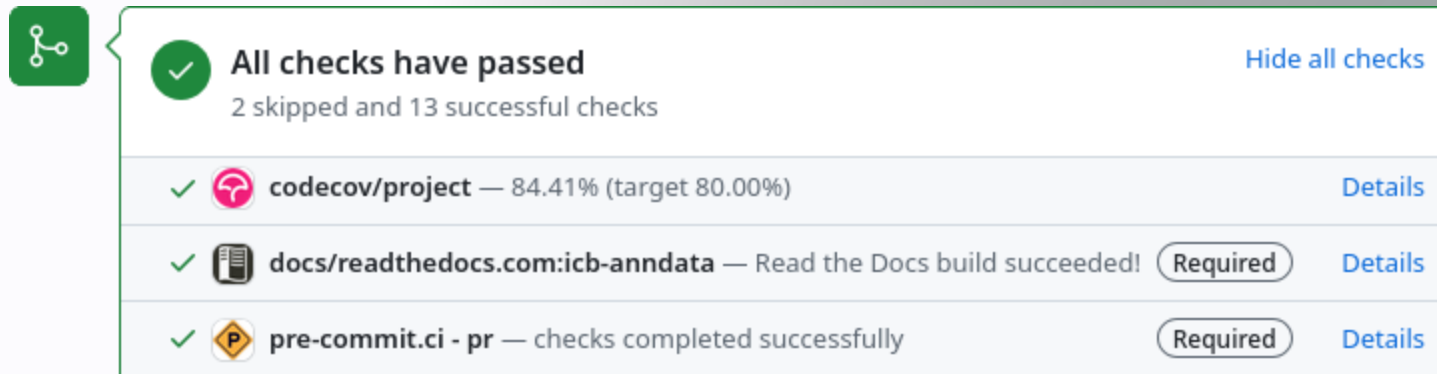
```
{  
  "[python]": {  
    "editor.formatOnSave": true,  
    "editor.defaultFormatter": "charliermarsh.ruff",  
    "editor.codeActionsOnSave": { ... },  
  }, ...  
}
```

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




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

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:

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

ReadTheDocs

PR previews:

Warning

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