

copier

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## My life before copier

- ▶ Various Python projects
- ▶ All with a set of tools (mypy, flake8, ...)
- ▶ Each tool has its own config

## Starting new projects

Whenever you crate a new project, you have to copy/paste the config ...

and remember to change things like project name, or URL or description

```
[tool.poetry]
name = "foo"
version = "2.2.1"
description = "... "
repository = "https://github.com/me/spam" # < oops
documentation = "https://me.github.io/foo"
```

## Configuration changes

You find a better mypy config in project A

```
- allow_untyped_decorators = true  
+ allow_untyped_decorators = false
```

Now you have to patch the config in all other projects !

# Enter copier

Two modes:

- ▶ copy
- ▶ update

# Demo!

Using template at:

<https://git.sr.ht/~dmerej/copier-python>

# Gotchas

- ▶ It's easy to end up on the *latest* documentation, which talks about version 6, which is not out yet
- ▶ Understanding why update dose not work the way it should is painful (not many logs, code source is a bit weird to read)
- ▶ The transition from v5 to v6 may be tricky

## Working on the template itself

Copier insists on using template from git repos

Which means you have to make a commit every time the template changes

## A helper - part 1

```
# Make an automatic commit  
(  
  # Always commit the changes  
  cd my-template  
  git add .  
  git commit -m 'auto commit' || true  
)
```

## A helper - part 2

```
# start from scratch is a good idea
rm -fr test-project
copier \  
  # so that you don't have to type "enter" all the time  
  -d "project_name=foo" \  
  -d "project_version=0.1" \  
  ... \  
  --vcs-ref HEAD \  
copy my-template test-project  
(  
  cd test-project  
  tree  
  # command to make sure it works  
)
```

## Other usages

- ▶ Everything cookiecutter already does :)
- ▶ Harmonize `.gitlab-ci` files for a bunch of projects
- ▶ Other duplicated configuration management
- ▶ ...

## Stuff not shown

You can do a lot of things with the `copier.yml` file

And you have the full power of Jinja2 at your disposal

You can also run commands after generating the files

# Hope

It's possible copier will get better - according to the docs, lots of work has been done on the UX already - let's hope this continues . . .

## Credits

Last AFPY meeting, where I was reminded of cookiecutter and that I wanted to try copier for a long time :)

This blog post:

<https://www.miximum.fr/blog/des-conferences-techniques-utiles/>