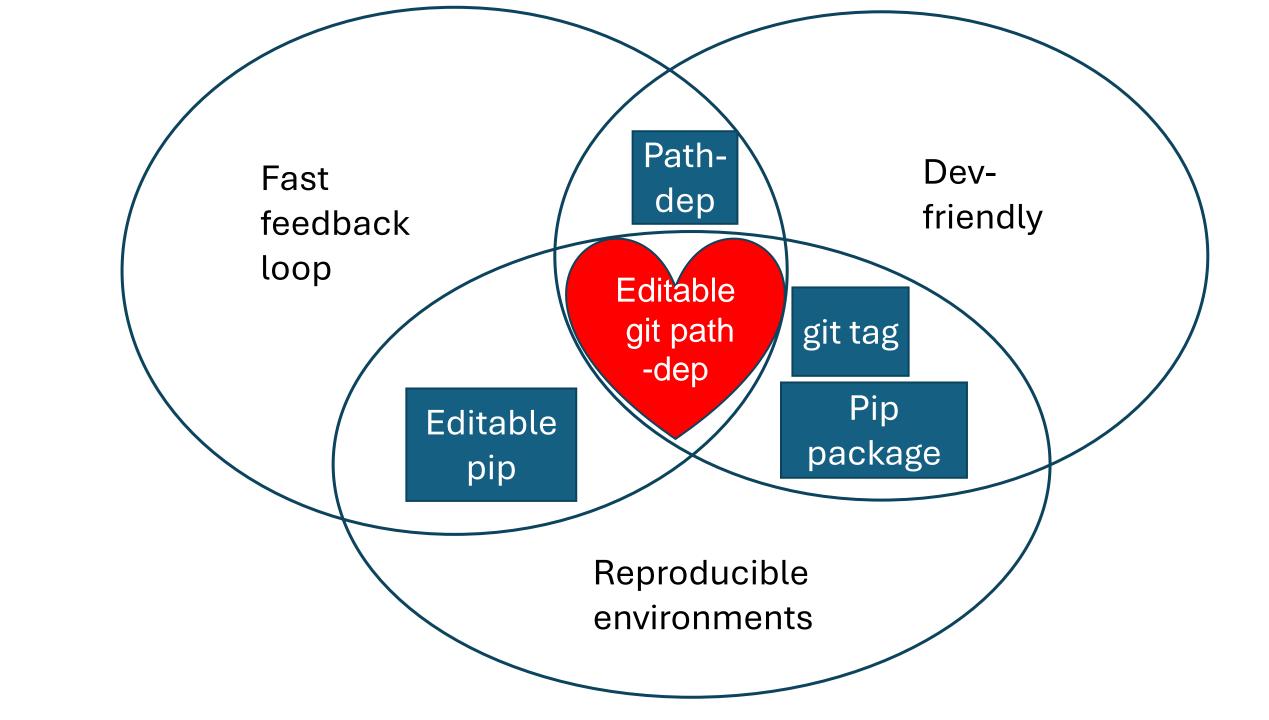
uv editable git-dependency

David Horvath

@systematicguy

Swiss Python Summit 2025

lightning talk +



Circumstances

- Application code is split into multiple repos.
- There is shared code.
- Private repos.

Skill expectation

- Developer can git clone the repos.
- P Developer knows basic uv usage.
- Solution Developer is super lazy and will forget any extra steps to perform.

Architectural Requirements

- Multiple app repos consume the same lib.
 - lib (1.0.0, 1.1.0, ...)
 - app1 (lib@1.0.0)
 - app2 (lib@1.1.0)
- 1.0.1 prod refers to specific version of lib.
 - Apps update their dependencies separately.

Development requirements

- Serve the lazy forgetful developer.
- pyproject.toml works out of the box.
- M Default setup assumes local clone of library.
- Fast feedback loop refactoring:
 - * Local changes MUST have immediate effects.
 - No commit, no push, no local package index, no commands.

Acceptable

- CI yamls and scripts are allowed to do fancy extra steps.
- As few hacks as possible.
- Transient breaking apps in local dev env.
 - While the shared lib is under heavy refactoring.

Opinions, choices

no package index	Me

says who

No git submodules Me

no symlink Me

We check out all repos in a flat hierarchy.

Me

libs under packages/

src/ layout Uv

single lock file per repo Uv

lib git tags follow semantic versions Me

lib structure

```
uv-sample-editable-lib
   i .venv
   packages
      ight funlib

∨ □ src

            funlib

≡ .python-version

         pyproject.toml
        M↓ README.md
      ightharpoonup funlib-devclone
         pyproject.toml
   pyproject.toml
   uv.lock
```

lib packages/funlib

```
[project]
name = "funlib"
version = "0.1.1"
description = "shared library for business logic"
readme = "README.md"
authors = [
  { name = "David Horvath", email = "david.h@systematicguy.com" }
requires-python = ">=3.13"
dependencies = []
[build-system]
requires = ["uv build>=0.8.13,<0.9.0"]
build-backend = "uv build"
```

lib packages/funlib-devclone

```
[project]
name = "funlib-devclone"
version = "0.0.0"
description = "Development proxy for funlib package - exposes local funlib source"
requires-python = ">=3.13"
dependencies = []
[build-system]
requires = ["setuptools", "wheel"]
build-backend = "setuptools.build meta"
[tool.setuptools.packages.find]
where = ["../funlib/src"]
```

[tool.setuptools.package-dir]
railib = "../funlib/src/funlib"

include = ["funlib*"]

lib root workspace

```
[project]
name = "uv-sample-editable-lib"
version = "0.1.0"
requires-python = ">=3.13"
dependencies = [
  "funlib",
[tool.uv.workspace]
members = [
  "packages/funlib",
  "packages/funlib-devclone",
[tool.uv.sources]
funlib = { workspace = true }
```

consumer app – exact and devclone

```
dependencies = []
[build-system]
requires = ["uv_build>=0.8.13,<0.9.0"]
build-backend = "uv build"
[dependency-groups]
devclone = ["funlib-devclone"]
exact = ["funlib"]
[tool.uv.sources]
funlib = { git = "https://github.com/systematicguy/uv-sample-editable-lib.git",
 subdirectory = "packages/funlib", tag = "0.1.1" }
funlib-devclone = { path = "../uv-sample-editable-lib/packages/funlib-devclone",
 editable = true }
```

consumer app – conflicts and defaults

```
[tool.uv]
default-groups = ["devclone"]
# exact and devclone groups are marked as conflicting
# to prevent installing both at the same time
conflicts = [
   { group = "exact" },
   { group = "devclone" },
```

The Hack – CI-only

```
# eliminate editable devclone dependencies
# because they are not checked out in the pipeline
uvx --from toml-cli toml set --toml-path pyproject.toml
 "dependency-groups.devclone" --to-array "[]"
uv lock
uv sync --locked --no-install-project --no-group devclone --group exact
# if we have pytest:
uv run --no-sync pytest
```

Thank you

example on GitHub

