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uv

Managing packages

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Managing packages

Installing a package

To install a package into the virtual environment, e.g., Flask:

```
$ uv pip install flask
```

To install a package with optional dependencies enabled, e.g., Flask with the

"dotenv" extra:

```
$ uv pip install "flask[dotenv]"
```

To install multiple packages, e.g., Flask and Ruff:

```
$ uv pip install flask ruff
```

To install a package with a constraint, e.g., Ruff v0.2.0 or newer:

```
$ uv pip install 'ruff>=0.2.0'
```

To install a package at a specific version, e.g., Ruff v0.3.0:

```
$ uv pip install 'ruff==0.3.0'
```

To install a package from the disk:

```
$ uv pip install "ruff @ ./projects/ruff"
```

To install a package from GitHub:

```
$ uv pip install "git+https://github.com/astral-sh/ruff"
```

To install a package from GitHub at a specific reference:

```
$ # Install a tag
```

```
$ uv pip install "git+https://github.com/astral-sh/[[email protected]](/cdn-cgi/l/email-protection)"
```

```
$ # Install a commit
```

```
$ uv pip install "git+https://github.com/astral-sh/ruff@1fadena67b26508cc59cf38e6130bde2243c929d"
```

```
$ # Install a branch
```

```
$ uv pip install "git+https://github.com/astal-sh/ruff@main"
```

See the [Git authentication](../configuration/authentication/#git-authentication) documentation for installation from a private repository.

Editable packages

Editable packages do not need to be reinstalled for changes to their source code to be active.

To install the current project as an editable package

```
$ uv pip install -e .
```

To install a project in another directory as an editable package:

```
$ uv pip install -e "ruff @ ./project/ruff"
```

Installing packages from files

Multiple packages can be installed at once from standard file formats.

Install from a `requirements.txt` file:

```
$ uv pip install -r requirements.txt
```

See the `[`uv pip compile`](../compile/)` documentation for more information on `requirements.txt` files.

Install from a `pyproject.toml` file:

```
$ uv pip install -r pyproject.toml
```

Install from a `pyproject.toml` file with optional dependencies enabled, e.g., the "foo" extra:

```
$ uv pip install -r pyproject.toml --extra foo
```

Install from a `pyproject.toml` file with all optional dependencies enabled:

```
$ uv pip install -r pyproject.toml --all-extras
```

Uninstalling a package

To uninstall a package, e.g., Flask:

```
$ uv pip uninstall flask
```

To uninstall multiple packages, e.g., Flask and Ruff:

```
$ uv pip uninstall flask ruff
```

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