
Tox Pipenv Documentation

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CHAPTER 1

What is Tox?

tox is a generic **virtualenv**_ management and test command line tool you can use for:

- checking your package installs correctly with different Python versions and interpreters
- running your tests in each of the environments, configuring your test tool of choice
- acting as a frontend to Continuous Integration servers, greatly reducing boilerplate and merging CI and shell-based testing.

CHAPTER 2

What is Pipenv?

Pipenv — the officially recommended Python packaging tool from [Python.org](https://python.org), free (as in freedom).

Pipenv is a tool that aims to bring the best of all packaging worlds (bundler, composer, npm, cargo, yarn, etc.) to the Python world. *Windows is a first-class citizen, in our world.*

It automatically creates and manages a virtualenv for your projects, as well as adds/removes packages from your `Pipfile` as you install/uninstall packages. It also generates the ever-important `Pipfile.lock`, which is used to produce deterministic builds.

CHAPTER 3

What is tox-pipenv?

Tox-pipenv is a Tox plugin to replace the default use of virtualenv, and pip with Pipenv's development workflow. This is a convenient way to retain your use of Pipenv, whilst testing multiple versions of Python.

CHAPTER 4

Installation

```
pip install tox-pipenv
```

Or,

```
pipenv install tox-pipenv
```

Creating virtual environments

With this plugin, tox will use *pipenv --python {python binary}* as given to the tox interpreter for each python path.

If you already have virtual environments cached with tox, use the *--recreate* flag to recreate them with pipenv.

Note: Tox will pass the *--site-packages* flag to pipenv if this is configured in your Tox config.

The Pipfile will exist in *.tox/{env}/Pipfile* as well as *Pipfile.lock*

CHAPTER 6

Installing requirements

The installation of requirements from your tox config will be passed to pipenv install for installation into the virtual environment. This replaces the use of pip within tox.

`requirements.txt` files will also be parsed by Pipenv and used for each test environment

CHAPTER 7

Executing tests

Each of the commands in your testenv configuration will be passed to pipenv to execute within the pipenv virtual environment