



Announcing Pipenv!

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I wrote a new tool this weekend, called [Pipenv](#). Check it out [on GitHub](#)!



Pipenv is an experimental project that aims to bring the best of all packaging worlds to the Python world. It harnesses [Pipfile](#), pip, and virtualenv into one single toolchain. It features very pretty terminal colors.

It automatically creates and manages a virtualenv for your projects, as well as adds/removes packages from your `Pipfile` as you install/uninstall packages. The `lock` command generates a lockfile (`Pipfile.lock`).

Features

- Automatically finds your project home, recursively, by looking for a `Pipfile`.
- Automatically generates a `Pipfile`, if one doesn't exist.
- Automatically generates a `Pipfile.lock`, if one doesn't exist.
- Automatically creates a virtualenv in a standard location (`project/.venv`).
- Automatically adds packages to a `Pipfile` when they are installed.
- Automatically removes packages from a `Pipfile` when they are uninstalled.
- Also automatically updates pip.

The main commands are `install`, `uninstall`, and `lock`, which generates a `Pipfile.lock`. These are intended to replace `$ pip install` usage, as well as manual virtualenv management.

Basic Concepts

- A virtualenv will automatically be created, when one doesn't exist.
- When no parameters are passed to `install`, all packages specified will be installed.
- When no parameters are passed to `uninstall`, all packages will be uninstalled.
- To initialize a Python 3 virtual environment, run `$ pipenv --three` first.
- To initialize a Python 2 virtual environment, run `$ pipenv --two` first.
- Otherwise, whatever `$ which python` will be the default.

Other Commands

- `shell` will spawn a shell with the virtualenv activated.
- `run` will run a given command from the virtualenv, with any arguments forwarded (e.g. `$ pipenv run python`).
- `check` asserts that PEP 508 requirements are being met by the current environment.

Usage

```

$ pipenv
Usage: pipenv [OPTIONS] COMMAND [ARGS]...

Options:
  --where          Output project home information.
  --bare          Minimal output.
  --three / --two  Use Python 3/2 when creating virtualenv.
  --version       Show the version and exit.
  --help          Show this message and exit.

Commands:
  check      Checks PEP 508 markers provided in Pipfile.
  install    Installs a provided package and adds it to...
  lock       Generates Pipfile.lock.
  run        Spans a command installed into the...
  shell      Spans a shell within the virtualenv.
  uninstall  Un-installs a provided package and removes it...
  update     Updates pip to latest version, uninstalls all...

$ pipenv --where
Pipfile found at /Users/kennethreitz/repos/kr/pip2/test/Pipfile.
Considering this to be the project home.

$ pipenv install
Creating a virtualenv for this project...
...
No package provided, installing all dependencies.
Virtualenv location: /Users/kennethreitz/repos/kr/pip2/test/.venv
Installing dependencies from Pipfile.lock...
...
To activate this project's virtualenv, run the following:
$ pipenv shell

$ pipenv install pytest --dev
Installing pytest...
...
Adding pytest to Pipfile's [dev-packages]...

$ pipenv lock

```

```
Assuring all dependencies from Pipfile are installed...
Locking [dev-packages] dependencies...
Locking [packages] dependencies...
Note: your project now has only default [packages] installed.
To install [dev-packages], run: $ pipenv install --dev

$ pipenv uninstall
No package provided, un-installing all dependencies.
Found 25 installed package(s), purging...
...
Environment now purged and fresh!

$ pipenv shell
Spawning virtualenv shell (/bin/zsh).
(test)$
```

Installation

```
$ pip install pipenv
```

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