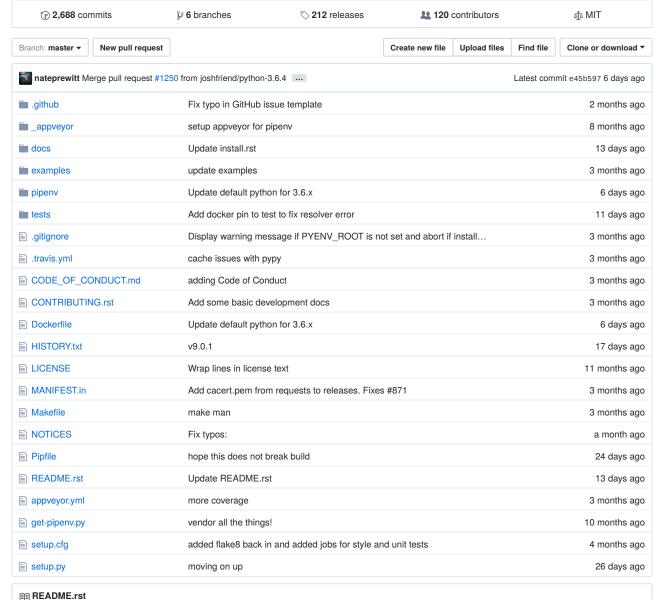
The vote is over, but the fight for net neutrality isn't. Show your support for a free and open internet.

Learn more

pypa / pipenv

Python Development Workflow for Humans. https://docs.pipenv.org/

#pip #python #packaging #virtualenv #pipfile #kennethreitz



E README.rst

Pipenv: Python Development Workflow for Humans

pypi v9.0.1 license MIT python 2.7, 3.3, 3.4, 3.5, 3.6 build passing build passing Say Thanks !

第1页 共5页 2018/1/2 上午10:29

Pipenv — the officially recommended Python packaging tool from 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.

http://media.kennethreitz.com.s3.amazonaws.com/pipenv.gif

The problems that Pipenv seeks to solve are multi-faceted:

- You no longer need to use pip and virtualenv separately. They work together.
- Managing a requirements.txt file can be problematic, so Pipenv uses the upcoming Pipfile and Pipfile.lock instead, which is superior for basic use cases.
- Hashes are used everywhere, always. Security. Automatically expose security vulnerabilities.
- Give you insight into your dependency graph (e.g. \$ pipenv graph).
- Streamline development workflow by loading .env files.

Installation

\$ pip install pipenv



Testimonials

Jannis Leidel, former pip maintainer-

Pipenv is the porcelain I always wanted to build for pip. It fits my brain and mostly replaces virtualenvwrapper and manual pip calls for me. Use it.

Justin Myles Holmes—

Pipenv is finally an abstraction meant to engage the mind instead of merely the filesystem.

Isaac Sanders-

Pipenv is literally the best thing about my day today. Thanks, Kenneth!

Features

- Enables truly deterministic builds, while easily specifying only what you want.
- Generates and checks file hashes for locked dependencies.
- Automatically install required Pythons, if pyenv is available.
- ullet Automatically finds your project home, recursively, by looking for a Pipfile .
- Automatically generates a Pipfile, if one doesn't exist.
- Automatically creates a virtualenv in a standard location.
- Automatically adds/removes packages to a Pipfile when they are un/installed.
- · Automatically loads .env files, if they exist.

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 (to activate a virtualenv, run \$ pipenv shell).

Basic Concepts

第2页 共5页 2018/1/2 上午10:29

- A virtualenv will automatically be created, when one doesn't exist.
- When no parameters are passed to install, all packages [packages] specified will be installed.
- To initialize a Python 3 virtual environment, run \$ pipenv --three .
- To initialize a Python 2 virtual environment, run \$ pipenv --two.
- Otherwise, whatever virtualenv defaults to 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.
- graph will print a pretty graph of all your installed dependencies.

Shell Completion

For example, with fish, put this in your ~/.config/fish/completions/pipenv.fish:

```
eval (pipenv --completion)
```

Alternatively, with bash, put this in your .bashrc or .bash_profile:

```
eval "$(pipenv --completion)"
```

Magic shell completions are now enabled! There is also a fish plugin, which will automatically activate your subshells for you!

Fish is the best shell. You should use it.

♥ Usage

```
$ pipenv
Usage: pipenv [OPTIONS] COMMAND [ARGS]...
Options:
               Update Pipenv & pip to latest.
  --update
  --where
                 Output project home information.
                Output virtualenv information.
 --venv
 - - py
                Output Python interpreter information.
  --envs
                Output Environment Variable options.
  --rm
                 Remove the virtualenv.
  --bare
                  Minimal output.
  --completion
                 Output completion (to be eval'd).
  --man
                 Display manpage.
 --three / --two Use Python 3/2 when creating virtualenv.
  --python TEXT Specify which version of Python virtualenv should use.
  --site-packages Enable site-packages for the virtualenv.
  --jumbotron An easter egg, effectively.
 --version
-h, --help
                  Show the version and exit.
                Show this message and exit.
Usage Examples:
  Create a new project using Python 3.6, specifically:
  $ pipenv --python 3.6
  Install all dependencies for a project (including dev):
  $ pipenv install --dev
```

第3页 共5页 2018/1/2 上午10:29

```
Create a lockfile containing pre-releases:
           $ pipenv lock --pre
           Show a graph of your installed dependencies:
           $ pipenv graph
           Check your installed dependencies for security vulnerabilities:
           $ pipenv check
           Install a local setup.py into your virtual environment/Pipfile:
           $ pipenv install -e .
    Commands:
         check
                                 Checks for security vulnerabilities and...
         graph
                                 Displays currently-installed dependency graph...
         install Installs provided packages and adds them to...
         lock
                                 Generates Pipfile.lock.
                                 View a given module in your editor.
         open
                                 Spawns a command installed into the...
         shell
                                  Spawns a shell within the virtualenv.
         uninstall Un-installs a provided package and removes it...
         update
                                 Uninstalls all packages, and re-installs...
Locate the project:
    $ pipenv --where
    /Users/kennethreitz/Library/Mobile \ Documents/com-apple-CloudDocs/repos/kr/pipenv/test-property/com-apple-CloudDocs/repos/kr/pipenv/test-property/com-apple-CloudDocs/repos/kr/pipenv/test-property/com-apple-CloudDocs/repos/kr/pipenv/test-property/com-apple-CloudDocs/repos/kr/pipenv/test-property/com-apple-CloudDocs/repos/kr/pipenv/test-property/com-apple-CloudDocs/repos/kr/pipenv/test-property/com-apple-CloudDocs/repos/kr/pipenv/test-property/com-apple-CloudDocs/repos/kr/pipenv/test-property/com-apple-CloudDocs/repos/kr/pipenv/test-property/com-apple-CloudDocs/repos/kr/pipenv/test-property/com-apple-CloudDocs/repos/kr/pipenv/test-property/com-apple-CloudDocs/repos/kr/pipenv/test-property/com-apple-CloudDocs/repos/kr/pipenv/test-property/com-apple-CloudDocs/repos/kr/pipenv/test-property/com-apple-CloudDocs/repos/kr/pipenv/test-property/com-apple-CloudDocs/repos/kr/pipenv/test-property/com-apple-CloudDocs/repos/kr/pipenv/test-property/com-apple-CloudDocs/repos/kr/pipenv/test-property/com-apple-CloudDocs/repos/kr/pipenv/test-property/com-apple-CloudDocs/repos/kr/pipenv/test-property/com-apple-CloudDocs/repos/kr/pipenv/test-property/com-apple-CloudDocs/repos/kr/pipenv/test-property/com-apple-CloudDocs/repos/kr/pipenv/test-property/com-apple-CloudDocs/repos/kr/pipenv/test-property/com-apple-CloudDocs/repos/kr/pipenv/test-property/com-apple-CloudDocs/repos/kr/pipenv/test-property/com-apple-CloudDocs/repos/kr/pipenv/test-property/com-apple-CloudDocs/kr/pipenv/test-property/com-apple-CloudDocs/repos/kr/pipenv/test-property/com-apple-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-Cloud-C
Locate the virtualenv:
    $ pipenv --venv
    /Users/kennethreitz/.local/share/virtualenvs/test-Skyy4vre
Locate the Python interpreter:
    $ pipenv --pv
    /Users/kennethreitz/.local/share/virtualenvs/test-Skyy4vre/bin/python
Install packages:
    $ pipenv install
    Creating a virtualenv for this project...
    No package provided, installing all dependencies.
    Virtualenv location: /Users/kennethreitz/.local/share/virtualenvs/test-EJkjoYts
    Installing dependencies from Pipfile.lock...
    To activate this project's virtualenv, run the following:
    $ pipenv shell
Install a dev dependency:
    $ pipenv install pytest --dev
    Installing pytest...
    Adding pytest to Pipfile's [dev-packages]...
Show a dependency graph:
```

第4页 共5页 2018/1/2 上午10:29

```
$ pipenv graph
 requests==2.18.4
   - certifi [required: >=2017.4.17, installed: 2017.7.27.1]
    - chardet [required: >=3.0.2,<3.1.0, installed: 3.0.4]
    - idna [required: >=2.5,<2.7, installed: 2.6]
   - urllib3 [required: <1.23,>=1.21.1, installed: 1.22]
Generate a lockfile:
 $ 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
Install all dev dependencies:
 $ pipenv install --dev
 Pipfile found at /Users/kennethreitz/repos/kr/pip2/test/Pipfile. Considering this to be the project home.
 Pipfile.lock out of date, updating...
 Assuring all dependencies from Pipfile are installed...
 Locking [dev-packages] dependencies...
 Locking [packages] dependencies...
Uninstall everything:
 $ pipenv uninstall --all
 No package provided, un-installing all dependencies.
 Found 25 installed package(s), purging...
 Environment now purged and fresh!
Use the shell:
 $ pipenv shell
 Loading .env environment variables...
  Launching subshell in virtual environment. Type 'exit' or 'Ctrl+D' to return.
 $ □
* Documentation
Documentation resides over at pipenv.org.
```

第5页 共5页 2018/1/2 上午10:29