

virtualenvs

A “must” for Python developers

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Quickstart

```
sudo pip install virtualenv
sudo pip install virtualenvwrapper
nano ~/.bashrc
# append the following lines
    export WORKON_HOME=/opt/venvs
    export PROJECT_HOME=$HOME/prog/WS/virtualenv
    source /usr/local/bin/virtualenvwrapper.sh

sudo chown username:username /opt
mkdir /opt/venvs
mkdir -p ~/prog/WS/virtualenv
source ~/.bashrc

mkvirtualenv myfirstvirtualenv

# it will “work on” myfirstvirtualenv upon creation
# to “exit” that virtualenv:
deactivate
```

Long story

NOTE: if you have multiple Python versions in your system

- replace all “pip” mentions with “pip-2.7”, supposing you have versions 2.6 (default) and 2.7, and want to use 2.7.
- Add to “.bashrc”

```
VIRTUALENVWRAPPER_PYTHON=/usr/local/bin/python2.7
```

virtualenv

[Home and docs](#), [pypi](#), [repo](#)

Install

```
sudo pip install virtualenv
```

Usage

Create a virtual environment, which will have the python interpreter, pip and a few basic packages. Then, to use the new virtual environment, it needs to be activated. Commands are:

```
virtualenv DEST_DIR
source DEST_DIR/bin/activate
```

virtualenvwrapper

[Home](#), [docs](#), [repo](#)

Install

```
sudo pip install virtualenvwrapper
```

Configure

<http://virtualenvwrapper.readthedocs.org/en/latest/install.html>

Suppose you want your virtual environments to be created at /opt/venvs

```
export WORKON_HOME=/opt/venvs
mkdir -p $WORKON_HOME
source /usr/local/bin/virtualenvwrapper.sh
```

To make it persist (i.e. work the same after rebooting), append this at the end of ~/.bashrc

```
export WORKON_HOME=/opt/venvs
export PROJECT_HOME=$HOME/Prog/WS/virtualenv
source /usr/local/bin/virtualenvwrapper.sh
```

Then create projects home dir

```
mkdir -p $HOME/Prog/WS/virtualenv
```

Then reload the file

```
source ~/.bashrc
```

Usage

The last command created all the shortcuts needed to work.

Commands

http://virtualenvwrapper.readthedocs.org/en/latest/command_ref.html

- mkvirtualenv
- lsvirtualenv
- showvirtualenv
- rmvirtualenv
- cpvirtualenv
- workon
- deactivate
- cdvirtualenv
- cdsitepackages
- lssitepackages