

VirtualEnv

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1 Installation

Install PIP:

```
wget http://pypi.python.org/pypi/pip/1.1#downloads
tar xzf pip-1.1.tar.gz
cd pip-1.1
python setup.py install
```

Install virtualenv, virtualenvwrapper:

```
pip install virtualenv virtualenvwrapper
```

Show installed packages:

```
pip freeze
```

Use requirements files to install exactly the correct versions:

```
pip freeze > requirements.txt
pip install -r requirements.txt
```

read <http://www.doughellmann.com/projects/virtualenvwrapper/>
read <http://virtualenvwrapper.readthedocs.org/en/latest/index.html>

2 Usage

2.1 VirtualenvWrapper

Features:

1. Organizes all of your virtual environments in one place.
2. Wrappers for managing your virtual environments (create, delete, copy).
3. Use a single command to switch between environments.
4. Tab completion for commands that take a virtual environment as argument.
5. User-configurable hooks for all operations (see Per-User Customization).
6. Plugin system for more creating sharable extensions (see Extending Virtualenvwrapper).

Usage: create directory to hold your environments:

```
mkdir $WORKON_HOME
```

Then create the Variable WORKON_HOME and source the wrapper script (it's a good idea to put this into your bashrc):

```
export WORKON_HOME=~/.virtualenv
source /usr/local/bin/virtualenvwrapper.sh
```

create a new virtual environment:

```
mkvirtualenv test_environment
```

switch to an existing virtual environment:

```
workon test_envirnoment
```

stop using an environment:

```
deactivate
```

show all environments that exist in folder \$WORKON_HOME:

```
lsvirtualenv
```

change into the directory of an environment:

```
cdvirtualenv <env>
```

You can go crazy on customizing the individual scripts for each environment:

in file WORKON_HOME/<ENV>/bin/postactivate

```
export OLD_VIRTUAL_ENV=$PWD  
cd $VIRTUAL_ENV/bin
```

in file \$WORKON_HOME/<ENV>/bin/postdeactivate

```
cd $OLD_VIRTUAL_ENV
```
