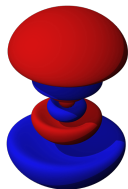


# Using Virtualenv

## ATOM - Austin's Thing of the Month

Simplify your python project dependency management.

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- Source: <http://github.com/godber/ATOM>



# What does it do?

Creates isolated environments for your python dependencies.

- Have you ever had project A need version 0.75 of libX and project B need version 0.82 of the same library?
- Solving mixed dependencies on complex projects gets messy fast.
- Works on windows, though this presentation is Unix-ish.

# Getting Started

Installing with easy\_install:

```
sudo easy_install virtualenv
```

Using it:

```
virtualenv <envname>  
virtualenv project1  
virtualenv --relocatable relocatable-project  
virtualenv --no-site-packages isolated-project
```

# What do you get?

```
project1/
|-- bin
|-- include
|   +-- python2.6 -> /usr/include/python2.6
+-- lib
    +-- python2.6
        |-- config -> /usr/lib/python2.6/config
        |-- distutils
        |-- encodings -> /usr/lib/python2.6/encodings
        |-- lib-dynload -> /usr/lib/python2.6/lib-dynload
    +-- site-packages
```

# What is in bin/?

A few helper scripts and any package executables go here:

```
activate{,.csh,.fish}  
activate_this.py  
easy_install  
pip  
python
```

On windows it is: `activate.bat` and `deactivate.bat`

# How to use it.

Activate!

```
project1/bin/activate
```

Work!

```
pip install django #NO SUDO!!!!
```

Deactivate!

```
deactivate
```

# Go Orbital with virutalenvwrapper

## Install

```
sudo easy_install virtualenvwrapper
# prep your environment
export WORKON_HOME=~/.python-environments
mkdir -p $WORKON_HOME
ln -s $WORKON_HOME ~/.virtualenvs
source /usr/local/bin/virtualenvwrapper.sh
```

Put the `source` line in your shell startup file.

# What does this provide?

- Common environment installation location
- Tab Completion and Hooks
- Convenient shortcuts
  - `mkvirtualenv` - Creates environment
  - `workon` - Activates
  - `lssitepackages` - Show packages



# References

- [virtualenv](#)
- [virtualenvwrapper](#)
- [P5M1 Orbital Image](#)
- Presentation Source - <http://github.com/godber/ATOM>