

Who is Evan Misshula?
What is a virtual environment and why do you want one?
What is a non-system version of python?
What is pyenv?
How do I use pyenv?
What is pyenv virtualenv?
How do I use pyenv virtualenv?

Python interpreter and library management with pyenv

Evan Misshula

2014-02-06 mon

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Outline

- 1 Who is Evan Misshula?
- 2 What is a virtual environment and why do you want one?
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- 4 What is pyenv?
- 5 How do I use pyenv?
- 6 What is pyenv virtualenv?
- 7 How do I use pyenv virtualenv?

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Who is Evan Misshula?

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What is a virtual environment and why do you want one?

A virtual environment which allows you to work on a specific project without worry of affecting other projects.(pydocs)

New project requires Django 1.7, old one requires Django 1.5.

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Figure : Managed library conflict

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What is a *non-system* version of python?

For Linux and Mac OS X versions of python come pre-installed. These lag the bleeding edge versions.

Upgrading by compiling from source can break your system.

See stack overflow questions:

- I-broke-python,
- Upgrading-to-python-2.7.5

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Non-system version of python

Important libraries require a specific version of python

critical features depend on the version for:

- Django (django-requires-2.7.x)
- IPython (IPython-requires-2.6.x)
- pandas (pandas-no-longer-supports-2.5.x)
- matplotlib
- scikit-learn
- scipy. (required-python-version-not-found)

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What is pyenv?

Pyenv is a series of shell scripts that manage your python versions through the use of shims. It does not depend on any version of python and was forked from rebenv.

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- First install it (mine, KBowen or Yyuu)
- Demo time...

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- pyenv-virtualenv is a pyenv plugin that provides a pyenv virtualenv command to create virtualenv for Python on UNIX-like systems.

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Figure : An organized work area

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