**Python包管理工具——Pip**

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**Python包管理工具——Pip**

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**1 前言**

pip 是一个Python包管理工具，主要是用于安装 PyPI 上的软件包，可以替代 easy\_install 工具。

* GitHub: <https://github.com/pypa/pip>
* Doc: <https://pip.pypa.io/en/latest/>

**2 获取pip**

**2.1 脚本安装pip**

$ curl -O https://raw.github.com/pypa/pip/master/contrib/get-pip.py

$ python get-pip.py

**2.2 使用包管理软件安装**

$ sudo yum install python-pip

$ sudo apt-get install python-pip

**2.3 更新pip**

$ pip install -U pip

**3 pip基本使用**

**3.1 安装PyPI软件**

$ pip install SomePackage

[...]

Successfully installed SomePackage

**3.2 查看具体安装文件**

$ pip show --files SomePackage

Name: SomePackage

Version: 1.0

Location: /my/env/lib/pythonx.x/site-packages

Files:

../somepackage/\_\_init\_\_.py

[...]

**3.3 查看哪些软件需要更新**

$ pip list --outdated

SomePackage (Current: 1.0 Latest: 2.0)

**3.4 升级软件包**

$ pip install --upgrade SomePackage

[...]

Found existing installation: SomePackage 1.0

Uninstalling SomePackage:

Successfully uninstalled SomePackage

Running setup.py install for SomePackage

Successfully installed SomePackage

**3.5 卸载软件包**

$ pip uninstall SomePackage

Uninstalling SomePackage:

/my/env/lib/pythonx.x/site-packages/somepackage

Proceed (y/n)? y

Successfully uninstalled SomePackage

**4 pip简明手册**

**4.1 安装具体版本软件**

$ pip install SomePackage # latest version

$ pip install SomePackage==1.0.4 # specific version

$ pip install 'SomePackage>=1.0.4' # minimum version

**4.2 Requirements文件安装依赖软件**

Requirements文件 一般记录的是依赖软件列表，通过pip可以一次性安装依赖软件包:

$ pip freeze > requirements.txt

$ pip install -r requirements.txt

**4.3 列出软件包清单**

$ pip list

$ pip list --outdated

ipython (Current: 1.2.0 Latest: 2.3.0)

**4.4 查看软件包信息**

$ pip show pip

---

Name: pip

Version: 1.4.1

Location: /Library/Python/2.7/site-packages/pip-1.4.1-py2.7.egg

Requires:

$ pip show pyopencl

---

Name: pyopencl

Version: 2014.1

Location: /Library/Python/2.7/site-packages

Requires: pytools, pytest, decorator

**4.5 搜寻**

$ pip search pycuda

pycuda - Python wrapper for Nvidia CUDA

pyfft - FFT library for PyCuda and PyOpenCL

cudatree - Random Forests for the GPU using PyCUDA

reikna - GPGPU algorithms for PyCUDA and PyOpenCL

compyte - A common set of compute primitives for PyCUDA and PyOpenCL (to be created)

**4.6 配置文件**

配置文件: $HOME/.pip/pip.conf, 举例:

[global]

timeout = 60

index-url = http://download.zope.org/ppix

[install]

ignore-installed = true

no-dependencies = yes

**4.7 命令行自动补全**

对于bash:

$ pip completion --bash >> ~/.profile

对于zsh:

$ pip completion --zsh >> ~/.zprofile

加载此配置文件后，则pip命令支持自动补全功能.

**5 后记**

应该尽量使用pip，不要继续使用easy\_install.

[▲](http://lesliezhu.github.io/Python/Doc/2014-11-08-pip.html)

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