setup.py

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Python distribution utilities ("Distutils")

setup.py

"If all you want to do is distribute a module called foo, contained in a file foo.py, then your setup script can be as simple as this:"

```python
from distutils.core import setup
setup(name='foo',
      version='1.0',
      py_modules=['foo'])
```

Or:

```python
from distutils.core import setup
setup(name='foomatic',
      version='1.0',
      packages=['foomatic'])
```

Create a source distribution

```
% python setup.py sdist
% tar tf ./dist/foo-1.0.tar.gz
foo-1.0/
foo-1.0/foo.py
foo-1.0/PKG-INFO
foo-1.0/setup.py
```

Install the module

```
% python setup.py install
```

Required metadata

```
setup(name='foomatic',
      version='1.0',
      author='Memyself Andi',
      author_email='mandi@example.net',
      url='http://example.net',
      packages=['foomatic'])
```

Recommended metadata

```
setup(...
    description='Automating foo',
    long_description="""\
        A multi-line string in reStructuredText
        format. PyPI converts this to HTML.""",
    classifiers=[
        'Development Status :: 4 - Beta',
        'Programming Language :: Python'])
```

Requiring other packages

Version specifiers:

```
<        >        ==
<=       >=       !=
```

```
setup(...
    requires=[
        'bar==1.3',
        'meh>1.0, !=1.5.1, <2.0',
    ])
```

Satisfying requirements

```
setup(...
    provides=[
        'baz',
    ])
```

Installing scripts

```
setup(...
    scripts=[
        'scripts/runfoo'])
```

Grabbing the version

```python
import pkg_resources
version = pkg_resources.require(
    "foomatic")[0].version
```

Directory structure

```
foomatic/
    |- README.txt
    |- LICENSE.txt
    |- setup.py
    |- docs/
        |- stuff
    |- foomatic/
        |- __init__.py
        |- foo.py
    |- scripts/
        |- runfoo
```

setuptools

setuptools

```
easy_install SomePackage
easy_install "SomePackage==2.0"
easy_install "SomePackage>2.0"
easy_install --upgrade SomePackage
easy_install http://example.com/ExamplePackage-2.0-
```

Distribute

```
% curl -O \
    http://python-distribute.org/distribute_setup.p
% python ./distribute_setup.py
...
% easy_install --version
distribute 0.6.10
```

The Python Package Index

Register

```
python ./setup.py register
```

Python 3

disutils2 is dead; long live packaging

```
http:
//docs.python.org/dev/packaging/index.html
```