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Julien Danjou  
Ben Darnell  
Ben Davis  
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# 1.8 chardet 3.0.2

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## 1.9 falcon 1.1.0

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Metadata-Version: 1.1

Name: falcon

Version: 1.1.0

Summary: An unladen web framework for building APIs and app backends.

Home-page: <http://falconframework.org>

Author: Kurt Griffiths

Author-email: [mail@kgriffs.com](mailto:mail@kgriffs.com)

License: Apache 2.0

Description: Falcon |[Docs](#)| [Build Status](#)| [codecov.io](#)

=====

Perfection is finally attained not when there is no longer anything to add, but when there is no longer anything to take away.

\*- Antoine de Saint-Exup<sup>©</sup>ry\*

Falcon is a `high-performance Python framework` <http://falconframework.org/index.html> for building cloud APIs. It encourages the REST architectural style, and tries to do as little as possible while remaining `highly effective` <http://falconframework.org/index.html#Benefits>.

#### Quick Links

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- \* `Read the docs` <https://falcon.readthedocs.io/en/stable>
- \* `Join the discussion group` <https://groups.google.com/forum/#!forum/falconframework>
- \* `Hang out in #falconframework on freenode` <https://kiwiirc.com/client/irc.freenode.net/?#falconframework>

#### Design Goals

-----

**Fast.** Cloud APIs need to turn around requests quickly, and make efficient use of hardware. This is particularly important when serving many concurrent requests. Falcon is among the fastest WSGI frameworks available, processing requests `several times faster` <http://falconframework.org/#Metrics> than other Python web frameworks.

**Light.** Only the essentials are included, with `six` and `mimemagic` being the only dependencies outside the standard library. We work hard to keep the code lean, making Falcon easier to test, secure, optimize, and deploy.

**Flexible.** Falcon is not opinionated when it comes to talking to databases, rendering content, authorizing requests, etc. You are free to mix and match your own favorite libraries. Falcon apps work with

any WSGI server, and run great under `CPython 2.6-2.7, PyPy, Jython 2.7, and CPython 3.3-3.5` <<https://travis-ci.org/falconry/falcon>>` \_.

## Features

-----

- Highly-optimized, extensible code base
- Intuitive routing via URI templates and REST-inspired resource classes
- Easy access to headers and bodies through request and response classes
- DRY request processing via middleware components and hooks
- Idiomatic HTTP error responses
- Straightforward exception handling
- Snappy unit testing through WSGI helpers and mocks
- CPython 2.6-2.7, PyPy, Jython 2.7, and CPython 3.3-3.5 support
- ~20% speed boost when Cython is available

## Who's Using Falcon?

-----

Falcon is used around the world by a growing number of organizations, including:

- 7ideas
- Cronitor
- EMC
- Hurricane Electric
- Leadpages
- OpenStack
- Rackspace
- Shiftgig
- tempfil.es
- Opera Software

If you are using the Falcon framework for a community or commercial project, please consider adding your information to our wiki under `Who's Using Falcon?` <<https://github.com/falconry/falcon/wiki/Who's-using-Falcon%3F>>` \_

You might also like to view our `Add-on Catalog` <<https://github.com/falconry/falcon/wiki/Add-on-Catalog>>`\_, where you can find a list of add-ons maintained by the community.

## Installation

-----

PyPy

^^^

PyPy <<http://pypy.org/>>\_\_ is the fastest way to run your Falcon app. However, note that only the PyPy 2.7 compatible release is currently supported.

```
.. code:: bash
```

```
$ pip install falcon
```

CPython  
^^^^^^

Falcon also fully supports

CPython <<https://www.python.org/downloads/>>\_\_ 2.6-3.5.

A universal wheel is available on PyPI for the the Falcon framework. Installing it is as simple as:

```
.. code:: bash
```

```
$ pip install falcon
```

Installing the wheel is a great way to get up and running with Falcon quickly in a development environment, but for an extra speed boost when deploying your application in production, Falcon can compile itself with Cython.

The following commands tell pip to install Cython, and then to invoke Falcon's ``setup.py``, which will in turn detect the presence of Cython and then compile (AKA cythonize) the Falcon framework with the system's default C compiler.

```
.. code:: bash
```

```
$ pip install cython
$ pip install --no-binary :all: falcon
```

**\*\*Installing on OS X\*\***

Xcode Command Line Tools are required to compile Cython. Install them with this command:

```
.. code:: bash
```

```
$ xcode-select --install
```

The Clang compiler treats unrecognized command-line options as errors; this can cause problems under Python 2.6, for example:

```
.. code:: bash
```

```
clang: error: unknown argument: '-mno-fused-madd' [-Wunused-command-line-argument-hard-error-in-future]
```

You might also see warnings about unused functions. You can work around these issues by setting additional Clang C compiler flags as follows:

```
.. code:: bash
```

```
$ export CFLAGS="-Qunused-arguments -Wno-unused-function"
```

## Dependencies

```
^^^^^^^^^^^^^^
```

Falcon depends on `six`` and `python-mimeparse``. `python-mimeparse`` is a better-maintained fork of the similarly named `mimeparse`` project. Normally the correct package will be selected by Falcon's `setup.py``. However, if you are using an alternate strategy to manage dependencies, please take care to install the correct package in order to avoid errors.

## WSGI Server

```
-----
```

Falcon speaks WSGI, and so in order to serve a Falcon app, you will need a WSGI server. Gunicorn and uWSGI are some of the more popular ones out there, but anything that can load a WSGI app will do.

```
.. code:: bash
```

```
$ pip install [gunicorn|uwsgi]
```

## Source Code

```
-----
```

Falcon `lives on GitHub <<https://github.com/falconry/falcon>>`, making the code easy to browse, download, fork, etc. Pull requests are always welcome! Also, please remember to star the project if it makes you happy. :)

Once you have cloned the repo or downloaded a tarball from GitHub, you can install Falcon like this:

```
.. code:: bash
```

```
$ cd falcon
$ pip install .
```

Or, if you want to edit the code, first fork the main repo, clone the fork to your desktop, and then run the following to install it using symbolic linking, so that when you change your code, the changes will be automatically available to your app without having to reinstall the package:

```
.. code:: bash

$ cd falcon
$ pip install -e .
```

You can manually test changes to the Falcon framework by switching to the directory of the cloned repo and then running pytest:

```
.. code:: bash

$ cd falcon
$ pip install -r tools/test-requirements
$ pytest tests
```

Or, to run the default set of tests:

```
.. code:: bash

$ pip install tox && tox
```

See also the `tox.ini` <<https://github.com/falconry/falcon/blob/master/tox.ini>> file for a full list of available environments.

Read the docs

-----

The docstrings in the Falcon code base are quite extensive, and we recommend keeping a REPL running while learning the framework so that you can query the various modules and classes as you have questions.

Online docs are available at: <https://falcon.readthedocs.io>

You can build the same docs locally as follows:

```
.. code:: bash

$ pip install tox && tox -e docs
```

Once the docs have been built, you can view them by opening the following index page in your browser. On OS X it's as simple as::

```
$ open docs/_build/html/index.html
```

Or on Linux:

```
$ xdg-open docs/_build/html/index.html
```

Getting started

-----

Here is a simple, contrived example showing how to create a Falcon-based API.

.. code:: python

```
# things.py

# Let's get this party started!
import falcon

# Falcon follows the REST architectural style, meaning (among
# other things) that you think in terms of resources and state
# transitions, which map to HTTP verbs.
class ThingsResource(object):
    def on_get(self, req, resp):
        """Handles GET requests"""
        resp.status = falcon.HTTP_200 # This is the default status
        resp.body = ('\nTwo things awe me most, the starry sky '
                    'above me and the moral law within me.\n'
                    '\n'
                    ' ~ Immanuel Kant\n\n')

# falcon.API instances are callable WSGI apps
app = falcon.API()

# Resources are represented by long-lived class instances
things = ThingsResource()

# things will handle all requests to the '/things' URL path
app.add_route('/things', things)
```

You can run the above example using any WSGI server, such as uWSGI or Gunicorn. For example:

.. code:: bash

```
$ pip install gunicorn
$ gunicorn things:app
```

Then, in another terminal:

```
.. code:: bash
```

```
$ curl localhost:8000/things
```

A more complex example

-----

Here is a more involved example that demonstrates reading headers and query parameters, handling errors, and working with request and response bodies.

```
.. code:: python
```

```
import json
import logging
import uuid
from wsgiref import simple_server
```

```
import falcon
import requests
```

```
class StorageEngine(object):
```

```
    def get_things(self, marker, limit):
        return [{'id': str(uuid.uuid4()), 'color': 'green'}]
```

```
    def add_thing(self, thing):
        thing['id'] = str(uuid.uuid4())
        return thing
```

```
class StorageError(Exception):
```

```
    @staticmethod
    def handle(ex, req, resp, params):
        description = ('Sorry, couldn\'t write your thing to the '
                      'database. It worked on my box.')
```

```
        raise falcon.HTTPError(falcon.HTTP_725,
                               'Database Error',
                               description)
```

```
class SinkAdapter(object):
```

```

engines = {
    'ddg': 'https://duckduckgo.com',
    'y': 'https://search.yahoo.com/search',
}

def __call__(self, req, resp, engine):
    url = self.engines[engine]
    params = {'q': req.get_param('q', True)}
    result = requests.get(url, params=params)

    resp.status = str(result.status_code) + ' ' + result.reason
    resp.content_type = result.headers['content-type']
    resp.body = result.text

class AuthMiddleware(object):

    def process_request(self, req, resp):
        token = req.get_header('Authorization')
        account_id = req.get_header('Account-ID')

        challenges = ["Token type=\"Fernet\""]

        if token is None:
            description = ('Please provide an auth token '
                           'as part of the request.')

            raise falcon.HTTPUnauthorized('Auth token required',
                                          description,
                                          challenges,
                                          href='http://docs.example.com/auth')

        if not self._token_is_valid(token, account_id):
            description = ('The provided auth token is not valid. '
                           'Please request a new token and try again.')

            raise falcon.HTTPUnauthorized('Authentication required',
                                          description,
                                          challenges,
                                          href='http://docs.example.com/auth')

    def _token_is_valid(self, token, account_id):
        return True # Suuuuuure it's valid...

class RequireJSON(object):

    def process_request(self, req, resp):

```



```

if not req.client_accepts_json:
    raise falcon.HTTPNotAcceptable(
        'This API only supports responses encoded as JSON.',
        href='http://docs.examples.com/api/json')

if req.method in ('POST', 'PUT'):
    if 'application/json' not in req.content_type:
        raise falcon.HTTPUnsupportedMediaType(
            'This API only supports requests encoded as JSON.',
            href='http://docs.examples.com/api/json')

class JSONTranslator(object):

    def process_request(self, req, resp):
        # req.stream corresponds to the WSGI wsgi.input environ variable,
        # and allows you to read bytes from the request body.
        #
        # See also: PEP 3333
        if req.content_length in (None, 0):
            # Nothing to do
            return

        body = req.stream.read()
        if not body:
            raise falcon.HTTPBadRequest('Empty request body',
                'A valid JSON document is required.')

        try:
            req.context['doc'] = json.loads(body.decode('utf-8'))

        except (ValueError, UnicodeDecodeError):
            raise falcon.HTTPError(falcon.HTTP_753,
                'Malformed JSON',
                'Could not decode the request body. The '
                'JSON was incorrect or not encoded as '
                'UTF-8.')

    def process_response(self, req, resp, resource):
        if 'result' not in req.context:
            return

        resp.body = json.dumps(req.context['result'])

    def max_body(limit):

    def hook(req, resp, resource, params):

```

```

length = req.content_length
if length is not None and length > limit:
    msg = ('The size of the request is too large. The body must not '
          'exceed ' + str(limit) + ' bytes in length.')

    raise falcon.HTTPRequestEntityTooLarge(
        'Request body is too large', msg)

return hook

```

```
class ThingsResource(object):
```

```

def __init__(self, db):
    self.db = db
    self.logger = logging.getLogger('thingsapp.' + __name__)

def on_get(self, req, resp, user_id):
    marker = req.get_param('marker') or ""
    limit = req.get_param_as_int('limit') or 50

    try:
        result = self.db.get_things(marker, limit)
    except Exception as ex:
        self.logger.error(ex)

    description = ('Aliens have attacked our base! We will '
                  'be back as soon as we fight them off. '
                  'We appreciate your patience.')

    raise falcon.HTTPServiceUnavailable(
        'Service Outage',
        description,
        30)

# An alternative way of doing DRY serialization would be to
# create a custom class that inherits from falcon.Request. This
# class could, for example, have an additional 'doc' property
# that would serialize to JSON under the covers.
req.context['result'] = result

resp.set_header('Powered-By', 'Falcon')
resp.status = falcon.HTTP_200

@falcon.before(max_body(64 * 1024))
def on_post(self, req, resp, user_id):
    try:
        doc = req.context['doc']

```

```

except KeyError:
    raise falcon.HTTPBadRequest(
        'Missing thing',
        'A thing must be submitted in the request body.')

proper_thing = self.db.add_thing(doc)

resp.status = falcon.HTTP_201
resp.location = '/%s/things/%s' % (user_id, proper_thing['id'])

# Configure your WSGI server to load "things.app" (app is a WSGI callable)
app = falcon.API(middleware=[
    AuthMiddleware(),
    RequireJSON(),
    JSONTranslator(),
])

db = StorageEngine()
things = ThingsResource(db)
app.add_route('/{user_id}/things', things)

# If a responder ever raised an instance of StorageError, pass control to
# the given handler.
app.add_error_handler(StorageError, StorageError.handle)

# Proxy some things to another service; this example shows how you might
# send parts of an API off to a legacy system that hasn't been upgraded
# yet, or perhaps is a single cluster that all data centers have to share.
sink = SinkAdapter()
app.add_sink(sink, r'/search/(?P<engine>ddg|y)\Z')

# Useful for debugging problems in your API; works with pdb.set_trace(). You
# can also use Gunicorn to host your app. Gunicorn can be configured to
# auto-restart workers when it detects a code change, and it also works
# with pdb.
if __name__ == '__main__':
    httpd = simple_server.make_server('127.0.0.1', 8000, app)
    httpd.serve_forever()

```

## Community

-----

The Falcon community maintains a discussion group that you can use to share your ideas and ask questions about the framework. To join the discussion, please visit <https://groups.google.com/d/forum/falconframework>.

Per our

Code of Conduct <https://github.com/falconry/falcon/blob/master/CODEOFCONDUCT.md>, we expect everyone who participates in community discussions to act professionally, and lead by example in encouraging constructive discussions. Each individual in the community is responsible for creating a positive, constructive, and productive culture.

We also hang out in

#falconframework <https://kiwiirc.com/client/irc.freenode.net/?#falconframework> on freenode, where everyone is always welcome to ask questions and share ideas.

Contributing

-----

Kurt Griffiths (kgriffs) is the creator and current maintainer of the Falcon framework, with the generous help of a number of stylish and talented contributors.

Pull requests are always welcome. We use the GitHub issue tracker to organize our work, but you do not need to open a new issue before submitting a PR.

Before submitting a pull request, please ensure you have added/updated the appropriate tests (and that all existing tests still pass with your changes), and that your coding style follows PEP 8 and doesn't cause pyflakes to complain.

Commit messages should be formatted using AngularJS conventions <http://goo.gl/QpbS7>.

Comments follow Google's style guide <https://google.github.io/styleguide/pyguide.html?showone=Comments#Comments>, with the additional requirement of prefixing inline comments using your GitHub nick and an appropriate prefix:

- TODO(riker): Damage report!
- NOTE(riker): Well, that's certainly good to know.
- PERF(riker): Travel time to the nearest starbase?
- APPSEC(riker): In all trust, there is the possibility for betrayal.

See also: CONTRIBUTING.md <https://github.com/falconry/falcon/blob/master/CONTRIBUTING.md>

Legal

-----

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O'Neill <<https://commons.wikimedia.org/wiki/File:Brown-Falcon,-Vic,-3.1.2008.jpg>>` \_\_\_.

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```
.. |Docs| image:: https://readthedocs.org/projects/falcon/badge/?version=stable
   :target: https://falcon.readthedocs.io/en/stable/?badge=stable
   :alt: Falcon web framework docs
.. |Runner| image:: https://a248.e.akamai.net/assets.github.com/images/icons/emoji/runner.png
   :width: 20
   :height: 20
.. |Build Status| image:: https://travis-ci.org/falconry/falcon.svg
   :target: https://travis-ci.org/falconry/falcon
.. |codecov.io| image:: http://codecov.io/github/falconry/falcon/coverage.svg?branch=master
   :target: http://codecov.io/github/falconry/falcon?branch=master
```

Keywords: wsgi web api framework rest http cloud

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Web Environment

Classifier: Natural Language :: English

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: System Administrators

Classifier: License :: OSI Approved :: Apache Software License

Classifier: Operating System :: MacOS :: MacOS X

Classifier: Operating System :: Microsoft :: Windows

Classifier: Operating System :: POSIX

Classifier: Topic :: Internet :: WWW/HTTP :: WSGI

Classifier: Topic :: Software Development :: Libraries :: Application Frameworks

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: Implementation :: CPython

Classifier: Programming Language :: Python :: Implementation :: PyPy

Classifier: Programming Language :: Python :: Implementation :: Jython

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Found in path(s):

\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/PKG-INFO  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon.egg-info/PKG-INFO

No license file was found, but licenses were detected in source scan.

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# Licensed under the Apache License, Version 2.0 (the "License");  
# you may not use this file except in compliance with the License.  
# You may obtain a copy of the License at  
#   http://www.apache.org/licenses/LICENSE-2.0  
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```

Found in path(s):

\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/util/structures.py

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#   http://www.apache.org/licenses/LICENSE-2.0  
# distributed under the License is distributed on an "AS IS" BASIS,
```

Found in path(s):

\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/resource.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/cmd/bench.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/http\_error.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/responders.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/queues/api.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/queues/stats.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/util/misc.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/client.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/request\_helpers.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/response\_helpers.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/redirects.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/routing/\_\_init\_\_.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/cmd/print\_routes.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/request.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/errors.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/queues/claims.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/hooks.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/\_\_init\_\_.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/queues/messages.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/util/uri.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/response.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/base.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/tools/build.sh

```
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/status_codes.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/queues/queues.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/version.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/bench.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/api_helpers.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/__init__.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/http_status.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/routing/compiled.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/api.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/routing/util.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/srmock.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/test_case.py
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/create.py
```

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```

Found in path(s):

```
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/helpers.py
```

## 1.10 pax-utils 1.2.4-r0

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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The End

## 1.13 pytest 2.5.2

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# 1.14 python-requests 2.18.1

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# 1.15 pep8 1.4.6

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Found in path(s):

\* /opt/cola/permits/1182334864\_1626812027.94/0/pep8-1-4-6-1-tar-gz/pep8-1.4.6/setup.py

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Metadata-Version: 1.1

Name: pep8

Version: 1.4.6

Summary: Python style guide checker

Home-page: <http://pep8.readthedocs.org/>

Author: Johann C. Rocholl

Author-email: [johann@rocholl.net](mailto:johann@rocholl.net)

License: Expat license

Description: pep8 - Python style guide checker

=====

pep8 is a tool to check your Python code against some of the style  
conventions in `PEP 8`\_.

.. \_PEP 8: <http://www.python.org/dev/peps/pep-0008/>

Features

- 
- \* Plugin architecture: Adding new checks is easy.
  - \* Parseable output: Jump to error location in your editor.
  - \* Small: Just one Python file, requires only stdlib. You can use just the pep8.py file for this purpose.
  - \* Comes with a comprehensive test suite.

## Installation

-----

You can install, upgrade, uninstall pep8.py with these commands::

```
$ pip install pep8
$ pip install --upgrade pep8
$ pip uninstall pep8
```

There's also a package for Debian/Ubuntu, but it's not always the latest version.

## Example usage and output

-----

```
::

$ pep8 --first optparse.py
optparse.py:69:11: E401 multiple imports on one line
optparse.py:77:1: E302 expected 2 blank lines, found 1
optparse.py:88:5: E301 expected 1 blank line, found 0
optparse.py:222:34: W602 deprecated form of raising exception
optparse.py:347:31: E211 whitespace before '('
optparse.py:357:17: E201 whitespace after '{'
optparse.py:472:29: E221 multiple spaces before operator
optparse.py:544:21: W601 .has_key() is deprecated, use 'in'
```

You can also make pep8.py show the source code for each error, and even the relevant text from PEP 8::

```
$ pep8 --show-source --show-pep8 testsuite/E40.py
testsuite/E40.py:2:10: E401 multiple imports on one line
import os, sys
      ^
```

Imports should usually be on separate lines.

Okay: import os\nimport sys

E401: import sys, os

Or you can display how often each error was found::

```
$ pep8 --statistics -qq Python-2.5/Lib
232  E201 whitespace after '['
599  E202 whitespace before ')'
631  E203 whitespace before ','
842  E211 whitespace before '('
2531 E221 multiple spaces before operator
4473 E301 expected 1 blank line, found 0
4006 E302 expected 2 blank lines, found 1
165  E303 too many blank lines (4)
325  E401 multiple imports on one line
3615 E501 line too long (82 characters)
612  W601 .has_key() is deprecated, use 'in'
1188 W602 deprecated form of raising exception
```

#### Links

-----

.. image:: <https://api.travis-ci.org/jcrocholl/pep8.png?branch=master>  
:target: <https://travis-ci.org/jcrocholl/pep8>  
:alt: Build status

\* `Read the documentation <<http://pep8.readthedocs.org/>>` \_

\* `Fork me on GitHub <<http://github.com/jcrocholl/pep8>>` \_

#### Changelog

=====

1.4.6 (2013-07-02)

-----

\* Honor ``# noqa`` for errors E711 and E712. (Issue #180)

\* When both a ``tox.ini`` and a ``setup.cfg`` are present in the project directory, merge their contents. The ``tox.ini`` file takes precedence (same as before). (Issue #182)

\* Give priority to ``--select`` over ``--ignore``. (Issue #188)

\* Compare full path when excluding a file. (Issue #186)

- \* Correctly report other E12 errors when E123 is ignored. (Issue #103)
- \* New option `--hang-closing` to switch to the alternative style of closing bracket indentation for hanging indent. Add error E133 for closing bracket which is missing indentation. (Issue #103)
- \* Accept both styles of closing bracket indentation for hanging indent. Do not report error E123 in the default configuration. (Issue #103)
- \* Do not crash when running AST checks and the document contains null bytes. (Issue #184)
- \* Fix false positive E261/E262 when the file contains a BOM. (Issue #193)
- \* Fix E701, E702 and E703 not detected sometimes. (Issue #196)
- \* Fix E122 not detected in some cases. (Issue #201 and #208)
- \* Fix false positive E121 with multiple brackets. (Issue #203)

#### 1.4.5 (2013-03-06)

-----

- \* When no path is specified, do not try to read from stdin. The feature was added in 1.4.3, but it is not supported on Windows. Use `-` filename argument to read from stdin. This usage is supported since 1.3.4. (Issue #170)
- \* Do not require `setuptools` in `setup.py`. It works around an issue with `pip` and Python 3. (Issue #172)
- \* Add `__pycache__` to the ignore list.
- \* Change misleading message for E251. (Issue #171)
- \* Do not report false E302 when the source file has a coding cookie or a comment on the first line. (Issue #174)
- \* Reorganize the tests and add tests for the API and for the command line usage and options. (Issues #161 and #162)
- \* Ignore all checks which are not explicitly selected when `select` is passed to the `StyleGuide` constructor.

#### 1.4.4 (2013-02-24)

-----



- \* Report E227 or E228 instead of E225 for whitespace around bitwise, shift or modulo operators. (Issue #166)
- \* Change the message for E226 to make clear that it is about arithmetic operators.
- \* Fix a false positive E128 for continuation line indentation with tabs.
- \* Fix regression with the `--diff` option. (Issue #169)
- \* Fix the `TestReport` class to print the unexpected warnings and errors.

#### 1.4.3 (2013-02-22)

-----

- \* Hide the `--doctest` and `--testsuite` options when installed.
- \* Fix crash with AST checkers when the syntax is invalid. (Issue #160)
- \* Read from standard input if no path is specified.
- \* Initiate a graceful shutdown on `Control+C`.
- \* Allow to change the `checker_class` for the `StyleGuide`.

#### 1.4.2 (2013-02-10)

-----

- \* Support AST checkers provided by third-party applications.
- \* Register new checkers with `register_check(func_or_cls, codes)`.
- \* Allow to construct a `StyleGuide` with a custom parser.
- \* Accept visual indentation without parenthesis after the `if` statement. (Issue #151)
- \* Fix `UnboundLocalError` when using `# noqa` with continued lines. (Issue #158)
- \* Re-order the lines for the `StandardReport`.
- \* Expand tabs when checking E12 continuation lines. (Issue #155)

- \* Refactor the testing class `TestReport` and the specific test functions into a separate test module.

#### 1.4.1 (2013-01-18)

-----

- \* Allow `sphinx.ext.autodoc` syntax for comments. (Issue #110)
- \* Report E703 instead of E702 for the trailing semicolon. (Issue #117)
- \* Honor `# noqa` in addition to `# nopep8`. (Issue #149)
- \* Expose the `OptionParser` factory for better extensibility.

#### 1.4 (2012-12-22)

-----

- \* Report E226 instead of E225 for optional whitespace around common operators (`*`, **`, ^`, +` and -``). This new error code is ignored in the default configuration because PEP 8 recommends to "use your own judgement". (Issue #96)
- \* Lines with a `# nopep8` at the end will not issue errors on line length E501 or continuation line indentation E12\*. (Issue #27)
- \* Fix `AssertionError` when the source file contains an invalid line ending `"\r\n"`. (Issue #119)
- \* Read the `[pep8]` section of `tox.ini` or `setup.cfg` if present. (Issue #93 and #141)
- \* Add the Sphinx-based documentation, and publish it on <http://pep8.readthedocs.org/>. (Issue #105)

#### 1.3.4 (2012-12-18)

-----

- \* Fix false positive E124 and E128 with comments. (Issue #100)
- \* Fix error on stdin when running with `bpython`. (Issue #101)
- \* Fix false positive E401. (Issue #104)
- \* Report E231 for nested dictionary in list. (Issue #142)

- \* Catch E271 at the beginning of the line. (Issue #133)
- \* Fix false positive E126 for multi-line comments. (Issue #138)
- \* Fix false positive E221 when operator is preceded by a comma. (Issue #135)
- \* Fix ``--diff`` failing on one-line hunk. (Issue #137)
- \* Fix the ``--exclude`` switch for directory paths. (Issue #111)
- \* Use ``-`` filename to read from standard input. (Issue #128)

### 1.3.3 (2012-06-27)

-----

- \* Fix regression with continuation line checker. (Issue #98)

### 1.3.2 (2012-06-26)

-----

- \* Revert to the previous behaviour for ``--show-pep8``: do not imply ``--first``. (Issue #89)
- \* Add E902 for IO errors. (Issue #87)
- \* Fix false positive for E121, and missed E124. (Issue #92)
- \* Set a sensible default path for config file on Windows. (Issue #95)
- \* Allow ``verbose`` in the configuration file. (Issue #91)
- \* Show the enforced ``max-line-length`` in the error message. (Issue #86)

### 1.3.1 (2012-06-18)

-----

- \* Explain which configuration options are expected. Accept and recommend the options names with hyphen instead of underscore. (Issue #82)
- \* Do not read the user configuration when used as a module (except if ``config\_file=True`` is passed to the ``StyleGuide`` constructor).
- \* Fix wrong or missing cases for the E12 series.
- \* Fix cases where E122 was missed. (Issue #81)

1.3 (2012-06-15)

-----

.. warning::

The internal API is backwards incompatible.

- \* Remove global configuration and refactor the library around a `StyleGuide` class; add the ability to configure various reporters. (Issue #35 and #66)
- \* Read user configuration from `~/config/pep8` and local configuration from `./pep8`. (Issue #22)
- \* Fix E502 for backslash embedded in multi-line string. (Issue #68)
- \* Fix E225 for Python 3 iterable unpacking (PEP 3132). (Issue #72)
- \* Enable the new checkers from the E12 series in the default configuration.
- \* Suggest less error-prone alternatives for E712 errors.
- \* Rewrite checkers to run faster (E22, E251, E27).
- \* Fixed a crash when parsed code is invalid (too many closing brackets).
- \* Fix E127 and E128 for continuation line indentation. (Issue #74)
- \* New option `--format` to customize the error format. (Issue #23)
- \* New option `--diff` to check only modified code. The unified diff is read from STDIN. Example: `hg diff | pep8 --diff` (Issue #39)
- \* Correctly report the count of failures and set the exit code to 1 when the `--doctest` or the `--testsuite` fails.
- \* Correctly detect the encoding in Python 3. (Issue #69)
- \* Drop support for Python 2.3, 2.4 and 3.0. (Issue #78)

1.2 (2012-06-01)

-----

- \* Add E121 through E128 for continuation line indentation. These checks are disabled by default. If you want to force all checks, use switch `--select=E,W`. Patch by Sam Vilain. (Issue #64)
- \* Add E721 for direct type comparisons. (Issue #47)
- \* Add E711 and E712 for comparisons to singletons. (Issue #46)
- \* Fix spurious E225 and E701 for function annotations. (Issue #29)
- \* Add E502 for explicit line join between brackets.
- \* Fix E901 when printing source with `--show-source`.
- \* Report all errors for each checker, instead of reporting only the first occurrence for each line.
- \* Option `--show-pep8` implies `--first`.

1.1 (2012-05-24)

-----

- \* Add E901 for syntax errors. (Issues #63 and #30)
- \* Add E271, E272, E273 and E274 for extraneous whitespace around keywords. (Issue #57)
- \* Add `tox.ini` configuration file for tests. (Issue #61)
- \* Add `.travis.yml` configuration file for continuous integration. (Issue #62)

1.0.1 (2012-04-06)

-----

- \* Fix inconsistent version numbers.

1.0 (2012-04-04)

-----

- \* Fix W602 `raise` to handle multi-char names. (Issue #53)

0.7.0 (2012-03-26)

-----

- \* Now `--first` prints only the first occurrence of each error.  
The `--repeat` flag becomes obsolete because it is the default behaviour. (Issue #6)
- \* Allow to specify `--max-line-length`. (Issue #36)
- \* Make the shebang more flexible. (Issue #26)
- \* Add test suite to the bundle. (Issue #25)
- \* Fixes for Jython. (Issue #49)
- \* Add PyPI classifiers. (Issue #43)
- \* Fix the `--exclude` option. (Issue #48)
- \* Fix W602, accept `raise` with 3 arguments. (Issue #34)
- \* Correctly select all tests if `DEFAULT_IGNORE == ""`.

0.6.1 (2010-10-03)

-----

- \* Fix inconsistent version numbers. (Issue #21)

0.6.0 (2010-09-19)

-----

- \* Test suite reorganized and enhanced in order to check more failures with fewer test files. Read the `run_tests` docstring for details about the syntax.
- \* Fix E225: accept `print >>sys.stderr, "..."` syntax.
- \* Fix E501 for lines containing multibyte encoded characters. (Issue #7)
- \* Fix E221, E222, E223, E224 not detected in some cases. (Issue #16)
- \* Fix E211 to reject `v = dic['a'] ['b']`. (Issue #17)
- \* Exit code is always 1 if any error or warning is found. (Issue #10)
- \* `--ignore` checks are now really ignored, especially in conjunction with `--count`. (Issue #8)

- \* Blank lines with spaces yield W293 instead of W291: some developers want to ignore this warning and indent the blank lines to paste their code easily in the Python interpreter.
- \* Fix E301: do not require a blank line before an indented block. (Issue #14)
- \* Fix E203 to accept NumPy slice notation `a[0, :]`. (Issue #13)
- \* Performance improvements.
- \* Fix decoding and checking non-UTF8 files in Python 3.
- \* Fix E225: reject `True+False` when running on Python 3.
- \* Fix an exception when the line starts with an operator.
- \* Allow a new line before closing ```)``, ``}`` or ``]``. (Issue #5)`

#### 0.5.0 (2010-02-17)

-----

- \* Changed the `--count` switch to print to `sys.stderr` and set exit code to 1 if any error or warning is found.
- \* E241 and E242 are removed from the standard checks. If you want to include these checks, use switch `--select=E,W`. (Issue #4)
- \* Blank line is not mandatory before the first class method or nested function definition, even if there's a docstring. (Issue #1)
- \* Add the switch `--version`.
- \* Fix decoding errors with Python 3. (Issue #13 [1]\_)
- \* Add `--select` option which is mirror of `--ignore`.
- \* Add checks E261 and E262 for spaces before inline comments.
- \* New check W604 warns about deprecated usage of backticks.
- \* New check W603 warns about the deprecated operator `<>`.
- \* Performance improvement, due to rewriting of E225.
- \* E225 now accepts:
  - no whitespace after unary operator or similar. (Issue #9 [1]\_)

- lambda function with argument unpacking or keyword defaults.

\* Reserve "2 blank lines" for module-level logical blocks. (E303)

\* Allow multi-line comments. (E302, issue #10 [1]\_)

0.4.2 (2009-10-22)

-----

\* Decorators on classes and class methods are OK now.

0.4 (2009-10-20)

-----

\* Support for all versions of Python from 2.3 to 3.1.

\* New and greatly expanded self tests.

\* Added ``--count`` option to print the total number of errors and warnings.

\* Further improvements to the handling of comments and blank lines.  
(Issue #1 [1]\_ and others changes.)

\* Check all py files in directory when passed a directory (Issue  
#2 [1]\_). This also prevents an exception when traversing directories  
with non ``\*.py`` files.

\* E231 should allow commas to be followed by ``)``. (Issue #3 [1]\_)

\* Spaces are no longer required around the equals sign for keyword  
arguments or default parameter values.

.. [1] These issues refer to the `previous issue tracker` \_\_.

.. \_\_: <http://github.com/cburroughs/pep8.py/issues>

0.3.1 (2009-09-14)

-----

\* Fixes for comments: do not count them when checking for blank lines between  
items.

\* Added setup.py for pypi upload and easy\_installability.



0.2 (2007-10-16)

-----

\* Loads of fixes and improvements.

0.1 (2006-10-01)

-----

\* First release.

Keywords: pep8

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Console

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: MIT License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 3

Classifier: Topic :: Software Development :: Libraries :: Python Modules

Found in path(s):

\* /opt/cola/permits/1182334864\_1626812027.94/0/pep8-1-4-6-1-tar-gz/pep8-1.4.6/PKG-INFO

\* /opt/cola/permits/1182334864\_1626812027.94/0/pep8-1-4-6-1-tar-gz/pep8-1.4.6/pep8.egg-info/PKG-INFO

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\* /opt/cola/permits/1182334864\_1626812027.94/0/pep8-1-4-6-1-tar-gz/pep8-1.4.6/pep8.py

## 1.16 certifi 2017.11.5

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

## 1.17 libtls-standalone 2.9.1-r0

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## 1.18 pycparser 2.14

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## 1.19 six 1.14.0

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## 1.20 websocket-client 0.44.0

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## 1.24 websocket-client 0.11.0

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# Contributions to the urllib3 project

## Creator & Maintainer

\* Andrey Petrov <[andrey.petrov@shazow.net](mailto:andrey.petrov@shazow.net)>

## Contributors

In chronological order:

\* victor.vde <<http://code.google.com/u/victor.vde/>>

\* HTTPS patch (which inspired HTTPSConnectionPool)

\* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>

\* NTLM-authenticated HTTPSConnectionPool

\* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)

\* niphlod <[niphlod@gmail.com](mailto:niphlod@gmail.com)>

\* Client-verified SSL certificates for HTTPSConnectionPool

\* Response gzip and deflate encoding support

\* Better unicode support for filepost using StringIO buffers

\* btoconnor <[brian@btoconnor.net](mailto:brian@btoconnor.net)>

\* Non-multipart encoding for POST requests

\* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>

\* Code review, PEP8 compliance, benchmark fix

\* kennethreitz <[me@kennethreitz.com](mailto:me@kennethreitz.com)>

\* Bugfixes, suggestions, Requests integration

\* georgemarshall <<http://github.com/georgemarshall>>

\* Bugfixes, Improvements and Test coverage

\* Thomas Kluyver <[thomas@kluyver.me.uk](mailto:thomas@kluyver.me.uk)>

\* Python 3 support

- \* brandon-rhodes <<http://rhodesmill.org/brandon>>
  - \* Design review, bugfixes, test coverage.
  
- \* studer <[theo.studer@gmail.com](mailto:theo.studer@gmail.com)>
  - \* IPv6 url support and test coverage
  
- \* Shivaram Lingamneni <[slingamn@cs.stanford.edu](mailto:slingamn@cs.stanford.edu)>
  - \* Support for explicitly closing pooled connections
  
- \* hartator <[hartator@gmail.com](mailto:hartator@gmail.com)>
  - \* Corrected multipart behavior for params
  
- \* Thomas Weischuh <[thomas@t-8ch.de](mailto:thomas@t-8ch.de)>
  - \* Support for TLS SNI
  - \* API unification of ssl\_version/cert\_reqs
  - \* SSL fingerprint and alternative hostname verification
  - \* Bugfixes in testsuite
  
- \* Sune Kirkeby <[mig@ibofobi.dk](mailto:mig@ibofobi.dk)>
  - \* Optional SNI-support for Python 2 via PyOpenSSL.
  
- \* Marc Schlaich <[marc.schlaich@gmail.com](mailto:marc.schlaich@gmail.com)>
  - \* Various bugfixes and test improvements.
  
- \* Bryce Boe <[bbzbryce@gmail.com](mailto:bbzbryce@gmail.com)>
  - \* Correct six.moves conflict
  - \* Fixed pickle support of some exceptions
  
- \* Boris Figovsky <[boris.figovsky@ravellosystems.com](mailto:boris.figovsky@ravellosystems.com)>
  - \* Allowed to skip SSL hostname verification
  
- \* Cory Benfield <<http://lukasa.co.uk/about/>>
  - \* Stream method for Response objects.
  - \* Return native strings in header values.
  - \* Generate 'Host' header when using proxies.
  
- \* Jason Robinson <[jaywink@basshero.org](mailto:jaywink@basshero.org)>
  - \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
- \* Audrius Butkevicius <[audrius.butkevicius@elastichosts.com](mailto:audrius.butkevicius@elastichosts.com)>
  - \* Fixed a race condition
  
- \* Stanislav Vitkovskiy <[stas.vitkovsky@gmail.com](mailto:stas.vitkovsky@gmail.com)>
  - \* Added HTTPS (CONNECT) proxy support
  
- \* Stephen Holsapple <[sholsapp@gmail.com](mailto:sholsapp@gmail.com)>
  - \* Added abstraction for granular control of request fields

- \* Martin von Gagern <Martin.vGagern@gmx.net>
- \* Support for non-ASCII header parameters
  
- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- \* Support for separate connect and request timeouts
  
- \* Peter Waller <p@pwaller.net>
- \* HTTPResponse.tell() for determining amount received over the wire
  
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <http://dbrgn.ch/>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module
- \* Configurable cipher suites in pyopenssl contrib module
  
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- \* Account retries on proxy errors
  
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
- \* Use the platform-specific CA certificate locations
  
- \* Josh Schneier <https://github.com/jschneier>
- \* HTTPHeaderDict and associated tests and docs
- \* Bugfixes, docs, test coverage
  
- \* Tahia Khan <http://tahia.tk/>
- \* Added Timeout examples in docs
  
- \* Arthur Grunseid <http://grunseid.com>
- \* source\_address support and tests (with https://github.com/bui)
  
- \* Ian Cordasco <graffatcolmingov@gmail.com>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <erik.tollerud@gmail.com>
- \* Support for standard library io module.
  
- \* Krishna Prasad <kprasad.iitd@gmail.com>
- \* Google App Engine documentation
  
- \* Aaron Meurer <asmeurer@gmail.com>
- \* Added Url.url, which unparses a Url
  
- \* Evgeny Kapun <abacabadabacaba@gmail.com>
- \* Bugfixes

- \* Benjamin Meyer <bm\_witness@yahoo.com>
- \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <github@sornars.com>
- \* Support for using ConnectionPool and PoolManager as context managers.
  
- \* Alex Gaynor <alex.gaynor@gmail.com>
- \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <ttomecek@redhat.com>
- \* Implemented generator for getting chunks from chunked responses.
  
- \* tlynn <https://github.com/tlynn>
- \* Respect the warning preferences at import.
  
- \* David D. Riddle <ddriddle@illinois.edu>
- \* IPv6 bugfixes in testsuite
  
- \* Jon Wayne Parrott <jonwayne@google.com>
- \* App Engine environment tests.
  
- \* John Krauss <https://github.com/talos>
- \* Clues to debugging problems with `cryptography` dependency in docs
  
- \* Disassem <https://github.com/Disassem>
- \* Fix pool-default headers not applying for url-encoded requests like GET.
  
- \* James Atherfold <jlatherfold@hotmail.com>
- \* Bugfixes relating to cleanup of connections during errors.
  
- \* Christian Pedersen <https://github.com/chripede>
- \* IPv6 HTTPS proxy bugfix
  
- \* Jordan Moldow <https://github.com/jmoldow>
- \* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
- \* Bugfix for ``ConnectionPool.urlopen(release\_conn=False)``.
- \* Creation of ``HTTPConnectionPool.ResponseCls``.
  
- \* Predrag Gruevski <https://github.com/obi1kenobi>
- \* Made cert digest comparison use a constant-time algorithm.
  
- \* Adam Talsma <https://github.com/a-tal>
- \* Bugfix to ca\_cert file paths.
  
- \* Evan Meagher <https://evanmeagher.net>
- \* Bugfix related to `memoryview` usage in PyOpenSSL adapter

- \* John Vandenberg <jayvdb@gmail.com>
  - \* Python 2.6 fixes; pyflakes and pep8 compliance
  
- \* Andy Caldwell <andy.m.caldwell@googlemail.com>
  - \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <ville.skytta@iki.fi>
  - \* Logging efficiency improvements, spelling fixes, Travis config.
  
- \* Shige Takeda <smtakeda@gmail.com>
  - \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* Jesse Shapiro <jesse@jesseshapiro.net>
  - \* Various character-encoding fixes/tweaks
  - \* Disabling IPv6 DNS when IPv6 connections not supported
  
- \* David Foster <http://dafoster.net/>
  - \* Ensure order of request and response headers are preserved.
  
- \* Jeremy Cline <jeremy@jcline.org>
  - \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <palaviv@gmail.com>
  - \* History list to Retry object.
  - \* HTTPResponse contains the last Retry object.
  
- \* Nate Prewitt <nate.prewitt@gmail.com>
  - \* Ensure timeouts are not booleans and greater than zero.
  - \* Fixed infinite loop in ``stream`` when amt=None.
  - \* Added length\_remaining to determine remaining data to be read.
  - \* Added enforce\_content\_length to raise exception when incorrect content-length received.
  
- \* Seth Michael Larson <sethmichaellarson@protonmail.com>
  - \* Created selectors backport that supports PEP 475.
  
- \* Alexandre Dias <alex.dias@smarkets.com>
  - \* Don't retry on timeout if method not in whitelist
  
- \* Moinuddin Quadri <moin18@gmail.com>
  - \* Lazily load idna package
  
- \* Tom White <s6yg1ez3@mail2tor.com>
  - \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
  
- \* Tim Burke <tim.burke@gmail.com>
  - \* Stop buffering entire deflate-encoded responses.
  
- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>

\* Add counter for status\_forcelist retries.

\* Erik Rose <erik@mozilla.com>

\* Bugfix to pyopenssl vendoring

\* [Your name or handle] <[email or website]>

\* [Brief summary of your changes]

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same

year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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```
---  
title: Notice  
description : "Message pour vous aider structurer votre contenu"  
---
```

Le shortcode `*Notice*` permet d'afficher 4 types de message pour vous aider structurer votre contenu.

### Note

```
---  
{%/* notice note */% }  
Une notice de type *note*  
{%/* /notice */% }  
---
```

s'affiche comme

```
{% notice note % }  
Une notice de type *note*  
{% /notice % }
```

### Info

```
---  
{%/* notice info */% }  
Une notice de type *info*  
{%/* /notice */% }  
---
```

s'affiche comme

```
{% notice info % }  
Une notice de type *info*  
{% /notice % }
```

### Tip

```
---  
{%/* notice tip */% }  
Une notice de type *tip*
```

{{%/ \* /notice \*/% }}

...

s'affiche comme

{{% notice tip % }}

Une notice de type \*tip\*

{{% /notice % }}

### Warning

...

{{%/ \* notice warning \*/% }}

Une notice de type \*warning\*

{{%/ \* /notice \*/% }}

...

s'affiche comme

{{% notice warning % }}

Une notice de type \*warning\*

{{% /notice % }}

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Last updated: 2009-02-28

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pycparser -- A C parser in Python

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- \* [Nathaniel Manista](https://github.com/nathanielmanistaatgoogle)
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- \* [Craig Citro](https://github.com/craigcitro)
- \* [Joe Gregorio](https://github.com/jcgregorio)

## Contributors

This list is generated from git commit authors.

- \* aalexand <aalexand@google.com>
- \* Aaron <aaronwinter@users.noreply.github.com>
- \* Adam Chainz <me@adamj.eu>
- \* ade@google.com
- \* Alexandre Vivien <alx.vivien@gmail.com>
- \* Ali Afshar <afshar@google.com>
- \* Andrzej Pragacz <apragacz@o2.pl>
- \* api.nickm@gmail.com
- \* Ben Demaree <bendemaree@gmail.com>
- \* Bill Prin <waprin@gmail.com, waprin@google.com>
- \* Brendan McCollam <brendan@mccollam.com, bmccollam@uchicago.edu>
- \* Craig Citro <craigcitro@gmail.com, craigcitro@google.com>
- \* Dan Ring <dfring@gmail.com>
- \* Daniel Hermes <dhermes@google.com, daniel.j.hermes@gmail.com>
- \* Danilo Akamine <danilowz@gmail.com>
- \* daryl herzmans <akrherz@iastate.edu>
- \* dlorenc <lorenc.d@gmail.com>
- \* Dominik Miedziski <dominik@mdzn.pl>
- \* dr. Kertsz Csaba-Zoltn <cskertes@gmail.com>
- \* Dustin Farris <dustin@dustinfarris.com>
- \* Eddie Warner <happyspace@gmail.com>
- \* Edwin Amsler <EdwinGuy@GMail.com>
- \* elibixby <elibixby@google.com>
- \* Emanuele Pucciarelli <ep@acm.org>
- \* Eric Koleda <eric.koleda@google.com>

\* Frederik Creemers <frederikcreemers@gmail.com>  
\* Guido van Rossum <guido@google.com>  
\* Harsh Vardhan <harshvd95@gmail.com>  
\* Herr Kaste <thdz.x@gmx.net>  
\* INADA Naoki <inada-n@klab.com>  
\* JacobMoshenko <moshenko@google.com>  
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\* Jeffrey Sorensen <sorensenjs@users.noreply.github.com>  
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\* Kevin Regan <regank@google.com>  
\* Iracomando <iracomando@gmail.com>  
\* Luar Roji <cyberplant@users.noreply.github.com>  
\* Luke Blanshard <leadpipe@google.com>  
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Roman V. Kiseliiov  
Russia  
Kursk  
Libknecht St., 4

+7(0712)56-09-83

<roman@kiseliov.ru>  
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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#



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@(#) \$RCSfile: certdata.txt,v \$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

=====

Advice for new contributors

=====

New contributor and not sure what to do? Want to help but just don't know how to get started? This is the section for you.

.. admonition:: Basic tools and workflow

If you are new to contributing to Django, the `:doc:`/intro/contributing`` tutorial will give you an introduction to the tools and the workflow.

First steps

=====

Start with these easy tasks to discover Django's development process.

**\*\*Sign the Contributor License Agreement\*\***

The code that you write belongs to you or your employer. If your contribution is more than one or two lines of code, you need to sign the ``CLA``. See the ``Contributor License Agreement FAQ`` for a more thorough explanation.

**\*\*Triage tickets\*\***

If an ``unreviewed ticket`` reports a bug, try and reproduce it. If you can reproduce it and it seems valid, make a note that you confirmed the bug and accept the ticket. Make sure the ticket is filed under the correct component area. Consider writing a patch that adds a test for the bug's behavior, even if you don't fix the bug itself. See more at `:ref:`how-can-i-help-with-triaging``

**\*\*Look for tickets that are accepted and review patches to build familiarity with the codebase and the process\*\***

Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible with older but still supported versions of Python. `:doc:`Run the tests </internals/contributing/writing-code/unit-tests>`` and make sure they pass. Where possible and relevant, try them out on a database other than SQLite.

Leave comments and feedback!

**\*\*Keep old patches up to date\*\***

Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as expected. Simply updating a patch is both useful and important! See more on `:doc:`writing-code/submitting-patches``.

**\*\*Write some documentation\*\***

Django's documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on `:doc:`writing-documentation``.

.. note::

The ``reports page`_` contains links to many useful Trac queries, including several that are useful for triaging tickets and reviewing patches as suggested above.

.. `_reports page`: <https://code.djangoproject.com/wiki/Reports>

.. `_CLA`: <https://www.djangoproject.com/foundation/cla/>

.. `_Contributor License Agreement FAQ`: <https://www.djangoproject.com/foundation/cla/faq/>

.. `_unreviewed ticket`: <https://code.djangoproject.com/query?status=!closed&stage=Unreviewed>

## Guidelines

=====

As a newcomer on a large project, it's easy to experience frustration. Here's some advice to make your work on Django more useful and rewarding.

**\*\*Pick a subject area that you care about, that you are familiar with, or that you want to learn about\*\***

You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

**\*\*Analyze tickets' context and history\*\***

Trac isn't an absolute; the context is just as important as the words.

When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who *\*hasn't\** spoken -- for example, if an experienced contributor hasn't been

recently involved in a discussion, then a ticket may not have the support required to get into Django.

\* **Start small** \*

It's easier to get feedback on a little issue than on a big one. See the ``easy pickings`_`.

\* **If you're going to engage in a big task, make sure that your idea has support first** \*

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that there's consensus on a proposed feature before you go implementing it.

\* **Be bold! Leave feedback!** \*

Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without **you**!

\* **Err on the side of caution when marking things Ready For Check-in** \*

If you're really not certain if a ticket is ready, don't mark it as such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

\* **Wait for feedback, and respond to feedback that you receive** \*

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.

\* **Be rigorous** \*

When we say `":pep:`8`", and must have docs and tests`", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

.. `_easy pickings`: <https://code.djangoproject.com/query?status=!closed&easy=1>

.. `_new-contributors-faq`:

## FAQ

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1. **\*\*This ticket I care about has been ignored for days/weeks/months! What can I do to get it committed?\***

First off, it's not personal. Django is entirely developed by volunteers (except the Django fellow), and sometimes folks just don't have time. The best thing to do is to send a gentle reminder to the |django-developers| mailing list asking for review on the ticket, or to bring it up in the `#django-dev` IRC channel.

2. **\*\*I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC myself?\***

Short answer: No. It's always better to get another set of eyes on a ticket. If you're having trouble getting that second set of eyes, see question 1, above.

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI) in the Netherlands as a successor of a language called ABC. Guido is Python's principal author, although it includes many contributions from others. The last version released from CWI was Python 1.2. In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI) in Reston, Virginia where he released several versions of the software. Python 1.6 was the last of the versions released by CNRI. In 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. Python 2.0 was the first and only release from BeOpen.com.

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Every contribution to Celery is as important to us,  
as every coin in the money bin is to Scrooge McDuck.

The first commit to the Celery codebase was made on  
Fri Apr 24 13:30:00 2009 +0200, and has since  
then been improved by many contributors.

Everyone who have ever contributed to Celery should be in  
this list, but in a recent policy change it has been decided  
that everyone must add themselves here, and not be added  
by others, so it's currently incomplete waiting for everyone  
to add their names.

The list of authors added before the policy change can be found in docs/AUTHORS.txt.

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gunicorn.logging\_config

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doc/sitemap\_gen.py

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util/unlink.py

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backport from python3 Lib/test/support.py

unicorn/selectors.py

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## 1.28 pyasn1 0.1.9

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## 1.29 tre 1.1.24-r0

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## 1.30 mock 0.8.0

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## 1.31 idna 2.1

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Found in path(s):

```
* /opt/cola/permits/1156185735_1619141854.94/0/kjd-idna-v2-1-0-gcb8ae9a-1-tar-gz/kjd-idna-45839b9/LICENSE.rst
```

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\*\*\*\*

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

\*\*\*\*

```
import sys
from setuptools import setup
import io
```

```
version = "2.1"
```

```
def main():
```

```
    python_version = sys.version_info[:2]
    if python_version < (2,6):
        raise SystemExit("Sorry, Python 2.6 or newer required")
```

```
    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': version,
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
```

```

'url': 'https://github.com/kjd/idna',
'classifiers': [
    'Development Status :: 5 - Production/Stable',
    'Intended Audience :: Developers',
    'Intended Audience :: System Administrators',
    'License :: OSI Approved :: BSD License',
    'Operating System :: OS Independent',
    'Programming Language :: Python',
    'Programming Language :: Python :: 2.6',
    'Programming Language :: Python :: 2.7',
    'Programming Language :: Python :: 3',
    'Programming Language :: Python :: 3.3',
    'Programming Language :: Python :: 3.4',
    'Topic :: Internet :: Name Service (DNS)',
    'Topic :: Software Development :: Libraries :: Python Modules',
    'Topic :: Utilities',
],
'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

```

Found in path(s):

```
* /opt/cola/permits/1156185735_1619141854.94/0/kjd-idna-v2-1-0-gcb8ae9a-1-tar-gz/kjd-idna-45839b9/setup.py
```

## 1.32 py 1.4.20

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## 1.33 coverage 3.7.1

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/**
 * QUnit - A JavaScript Unit Testing Framework
 *
 * http://docs.jquery.com/QUnit
 *
 * Copyright (c) 2011 John Resig, Jörn Zaefferer
 * Dual licensed under the MIT (MIT-LICENSE.txt)
 * or GPL (GPL-LICENSE.txt) licenses.
 */
/**
 * jsDump
 * Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com | http://flesler.blogspot.com
 * Licensed under BSD (http://www.opensource.org/licenses/bsd-license.php)
 * Date: 5/15/2008
 * @projectDescription Advanced and extensible data dumping for Javascript.
 * @version 1.0.0
 * @author Ariel Flesler
 * @link {http://flesler.blogspot.com/2008/05/jsdump-pretty-dump-of-any-javascript.html}
 */
/*
 * Javascript Diff Algorithm
 * By John Resig (http://ejohn.org/)
 * Modified by Chu Alan "sprite"
 *
 * Released under the MIT license.
 *
 * More Info:
 * http://ejohn.org/projects/javascript-diff-algorithm/
 *
 * Usage: QUnit.diff(expected, actual)
 *
 * QUnit.diff("the quick brown fox jumped over", "the quick fox jumps over") == "the quick <del>brown </del> fox
<del>jumped </del><ins>jumps </ins> over"
 */
```

Found in path(s):

```
* /opt/cola/permits/1120566857_1627551379.43/0/coverage-3-7-1-1-tar-gz/coverage-3.7.1/tests/qunit/qunit.js
```

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```
/* Copyright (c) 2010
 * @author Laurence Wheway
 * Dual licensed under the MIT (http://www.opensource.org/licenses/mit-license.php)
 * and GPL (http://www.opensource.org/licenses/gpl-license.php) licenses.
 *
 * @version 1.2.0
 */
```

Found in path(s):

```
* /opt/cola/permits/1120566857_1627551379.43/0/coverage-3-7-1-1-tar-gz/coverage-3.7.1/tests/farm/html/src/htmlcov/jquery.isonscreen.js
* /opt/cola/permits/1120566857_1627551379.43/0/coverage-3-7-1-1-tar-gz/coverage-3.7.1/coverage/htmlfiles/jquery.isonscreen.js
```

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```
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 * QUnit - A JavaScript Unit Testing Framework
 *
 * http://docs.jquery.com/QUnit
 *
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 */
```

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```
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```

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```
/*!
 * jQuery JavaScript Library v1.4.3
 * http://jquery.com/
 *
 * Copyright 2010, John Resig
 * Dual licensed under the MIT or GPL Version 2 licenses.
 * http://jquery.org/license
 *
 * Includes Sizzle.js
 * http://sizzlejs.com/
 * Copyright 2010, The Dojo Foundation
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 *
 * Date: Thu Oct 14 23:10:06 2010 -0400
 */
```

Found in path(s):

```
* /opt/cola/permits/1120566857_1627551379.43/0/coverage-3-7-1-1-tar-gz/coverage-3.7.1/coverage/htmlfiles/jquery.min.js
```

```
* /opt/cola/permits/1120566857_1627551379.43/0/coverage-3-7-1-1-tar-gz/coverage-3.7.1/tests/farm/html/src/htmlcov/jquery-1.4.3.min.js
```

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```
/*
```

```
* jQuery Hotkeys Plugin
```

```
* Copyright 2010, John Resig
```

```
* Dual licensed under the MIT or GPL Version 2 licenses.
```

```
*
```

```
* Based upon the plugin by Tzury Bar Yochay:
```

```
* http://github.com/tzuryby/hotkeys
```

```
*
```

```
* Original idea by:
```

```
* Binny V A, http://www.openjs.com/scripts/events/keyboard\_shortcuts/
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1120566857_1627551379.43/0/coverage-3-7-1-1-tar-gz/coverage-3.7.1/tests/farm/html/src/htmlcov/jquery.hotkeys.js
```

```
* /opt/cola/permits/1120566857_1627551379.43/0/coverage-3-7-1-1-tar-gz/coverage-3.7.1/coverage/htmlfiles/jquery.hotkeys.js
```

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```
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```

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Metadata-Version: 1.0

Name: coverage

Version: 3.7.1

Summary: Code coverage measurement for Python

Home-page: <http://nedbatchelder.com/code/coverage>

Author: Ned Batchelder and others

Author-email: [ned@nedbatchelder.com](mailto:ned@nedbatchelder.com)

License: BSD

Description: Coverage.py measures code coverage, typically during test execution. It uses

the code analysis tools and tracing hooks provided in the Python standard

library to determine which lines are executable, and which have been executed.

Coverage.py runs on Pythons 2.3 through 3.3, and PyPy 1.9.

Documentation is at `nedbatchelder.com` <<http://nedbatchelder.com/code/coverage>>`. Code repository and issue

tracker are on `Bitbucket` <<http://bitbucket.org/ned/coveragepy>>`, with a mirrored repo on `Github` <<https://github.com/nedbat/coveragepy>>`.

New in 3.7: `--debug``, and 12 bugs closed.

New in 3.6: `--fail-under``, and >20 bugs closed.

New in 3.5: Branch coverage exclusions, keyboard shortcuts in HTML report.

New in 3.4: Better control over source to measure, and unexecuted files can be reported.

New in 3.3: `.coveragerc` files.

New in 3.2: Branch coverage!

Keywords: code coverage testing

Platform: UNKNOWN

Classifier: Environment :: Console

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 3

Classifier: Topic :: Software Development :: Quality Assurance

Classifier: Topic :: Software Development :: Testing

Classifier: Development Status :: 5 - Production/Stable

Found in path(s):

\* `/opt/cola/permits/1120566857_1627551379.43/0/coverage-3-7-1-1-tar-gz/coverage-3.7.1/coverage.egg-info/PKG-INFO`

\* `/opt/cola/permits/1120566857_1627551379.43/0/coverage-3-7-1-1-tar-gz/coverage-3.7.1/PKG-INFO`

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\* jQuery Templates Plugin 1.0.0pre

\* <http://github.com/jquery/jquery-tmpl>

\* Requires jQuery 1.4.2

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- \*/

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## 1.34 visual-studio-runtime 14.16.27012.6

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Authors/contributors include:

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Alexander Monakov  
Andre McCurdy  
Andrew Kelley  
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Aric Belsito  
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## 1.45 setuptools-scm 1.15.0-2.ph2

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## 1.46 cryptography 1.7.1

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## 1.48 pam 0.1.4

### 1.48.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
from setuptools import setup, find_packages
import sys, os
```

```
version = '0.1.4'
```

```
setup(name='pam',
      version=version,
      description="PAM interface using ctypes",
      long_description=""
```

```
An interface to the Pluggable Authentication Modules (PAM) library on linux, written in pure python (using ctypes)""",
```

```
classifiers=["Development Status :: 3 - Alpha",
```



```

    "Intended Audience :: Developers",
    "License :: OSI Approved :: MIT License",
    "Operating System :: POSIX :: Linux",
    "Operating System :: MacOS :: MacOS X",
    "Programming Language :: Python",
    "Topic :: Software Development :: Libraries :: Python Modules",
    "Topic :: System :: Systems Administration :: Authentication/Directory"
],
keywords="",
author='Chris AtLee',
author_email='chris@atlee.ca',
url='http://atlee.ca/software/pam',
download_url = "http://atlee.ca/software/pam/dist/%s" % version,
license='MIT',
py_modules=["pam"],
zip_safe=True,
install_requires=[],
entry_points="""
# -*- Entry points: -*-
""",
)

```

Found in path(s):

\* /opt/cola/permits/1119811840\_1609793495.63/0/pam-0-1-4-1-tar-gz/pam-0.1.4/setup.py

No license file was found, but licenses were detected in source scan.

# Licensed under the MIT license:

Found in path(s):

\* /opt/cola/permits/1119811840\_1609793495.63/0/pam-0-1-4-1-tar-gz/pam-0.1.4/pam.py

No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.0

Name: pam

Version: 0.1.4

Summary: PAM interface using ctypes

Home-page: <http://atlee.ca/software/pam>

Author: Chris AtLee

Author-email: [chris@atlee.ca](mailto:chris@atlee.ca)

License: MIT

Download-URL: <http://atlee.ca/software/pam/dist/0.1.4>

Description: An interface to the Pluggable Authentication Modules (PAM) library on linux, written in pure python (using ctypes)

Platform: UNKNOWN

Classifier: Development Status :: 3 - Alpha

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: MIT License

Classifier: Operating System :: POSIX :: Linux

Classifier: Operating System :: MacOS :: MacOS X  
Classifier: Programming Language :: Python  
Classifier: Topic :: Software Development :: Libraries :: Python Modules  
Classifier: Topic :: System :: Systems Administration :: Authentication/Directory

Found in path(s):

\* /opt/cola/permits/1119811840\_1609793495.63/0/pam-0-1-4-1-tar-gz/pam-0.1.4/pam.egg-info/PKG-INFO  
\* /opt/cola/permits/1119811840\_1609793495.63/0/pam-0-1-4-1-tar-gz/pam-0.1.4/PKG-INFO

## 1.49 email 4.0.2

### 1.49.1 Available under license :

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Return-Path: <barry@python.org>  
Delivered-To: barry@python.org  
Received: by mail.python.org (Postfix, from userid 889)  
id C2BF0D37C6; Tue, 11 Sep 2001 00:05:05 -0400 (EDT)  
MIME-Version: 1.0  
Content-Type: multipart/mixed; boundary="h90VIIIKmx"  
Content-Transfer-Encoding: 7bit  
Message-ID: <15261.36209.358846.118674@anthem.python.org>  
From: barry@python.org (Barry A. Warsaw)  
To: barry@python.org  
Subject: a simple multipart  
Date: Tue, 11 Sep 2001 00:05:05 -0400  
X-Mailer: VM 6.95 under 21.4 (patch 4) "Artificial Intelligence" XEmacs Lucid  
X-Attribution: BAW  
X-Oblique-Strategy: Make a door into a window

--h90VIIIKmx  
Content-Type: text/plain  
Content-Disposition: inline;  
filename="msg.txt"  
Content-Transfer-Encoding: 7bit

a simple kind of mirror  
to reflect upon our own

--h90VIIIKmx  
Content-Type: text/plain  
Content-Disposition: inline;  
filename="msg.txt"  
Content-Transfer-Encoding: 7bit

a simple kind of mirror

to reflect upon our own

--h90VIIIKmx--

Found in path(s):

\* /opt/cola/permits/1156180176\_1619139157.6/0/email-4-0-2-1-tar-gz/email-4.0.2/email/test/data/msg\_04.txt

No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.0

Name: email

Version: 4.0.2

Summary: Standalone email package

Home-page: <http://www.python.org/sigs/email-sig>

Author: Email SIG

Author-email: [email-sig@python.org](mailto:email-sig@python.org)

License: Python software Foundation

Description: This is the standalone email package. This is a copy of what's available in Python but you may want to use the standalone version if you want the latest and greatest email package, even in older Pythons.

Keywords: email

Platform: UNKNOWN

Found in path(s):

\* /opt/cola/permits/1156180176\_1619139157.6/0/email-4-0-2-1-tar-gz/email-4.0.2/PKG-INFO

\* /opt/cola/permits/1156180176\_1619139157.6/0/email-4-0-2-1-tar-gz/email-4.0.2/email.egg-info/PKG-INFO

No license file was found, but licenses were detected in source scan.

Return-Path: <[barry@python.org](mailto:barry@python.org)>

Delivered-To: [barry@python.org](mailto:barry@python.org)

Received: by mail.python.org (Postfix, from userid 889)  
id C2BF0D37C6; Tue, 11 Sep 2001 00:05:05 -0400 (EDT)

MIME-Version: 1.0

Content-Type: multipart/mixed; boundary="h90VIIIKmx"

Content-Transfer-Encoding: 7bit

Message-ID: <15261.36209.358846.118674@anthem.python.org>

From: [barry@python.org](mailto:barry@python.org) (Barry A. Warsaw)

To: [barry@python.org](mailto:barry@python.org)

Subject: a simple multipart

Date: Tue, 11 Sep 2001 00:05:05 -0400

X-Mailer: VM 6.95 under 21.4 (patch 4) "Artificial Intelligence" XEmacs Lucid

X-Attribution: BAW

X-Oblique-Strategy: Make a door into a window

--h90VIIIKmx

Content-Type: text/plain

Content-Disposition: inline; name="msg.txt"

Content-Transfer-Encoding: 7bit

a simple kind of mirror  
to reflect upon our own

--h90V8IIKmx  
Content-Type: text/plain  
Content-Disposition: inline; name="msg.txt"  
Content-Transfer-Encoding: 7bit

a simple kind of mirror  
to reflect upon our own

--h90V8IIKmx--

Found in path(s):

\* /opt/cola/permits/1156180176\_1619139157.6/0/email-4-0-2-1-tar-gz/email-4.0.2/email/test/data/msg\_44.txt

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Return-Path: <barry@python.org>  
Delivered-To: barry@python.org  
MIME-Version: 1.0  
Content-Type: message/rfc822  
Content-Description: forwarded message  
Content-Transfer-Encoding: 7bit  
Message-ID: <15265.9482.641338.555352@python.org>  
From: barry@zope.com (Barry A. Warsaw)  
Sender: barry@python.org  
To: barry@python.org  
Subject: forwarded message from Barry A. Warsaw  
Date: Thu, 13 Sep 2001 17:28:42 -0400  
X-Mailer: VM 6.95 under 21.4 (patch 4) "Artificial Intelligence" XEmacs Lucid  
X-Attribution: BAW  
X-Oblique-Strategy: Be dirty  
X-Url: http://barry.wooz.org

MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Return-Path: <barry@python.org>  
Delivered-To: barry@python.org  
Message-ID: <15265.9468.713530.98441@python.org>  
From: barry@zope.com (Barry A. Warsaw)  
Sender: barry@python.org  
To: barry@python.org  
Subject: testing  
Date: Thu, 13 Sep 2001 17:28:28 -0400  
X-Mailer: VM 6.95 under 21.4 (patch 4) "Artificial Intelligence" XEmacs Lucid  
X-Attribution: BAW  
X-Oblique-Strategy: Spectrum analysis

X-Url: <http://barry.wooz.org>

Found in path(s):

\* /opt/cola/permits/1156180176\_1619139157.6/0/email-4-0-2-1-tar-gz/email-4.0.2/email/test/data/msg\_06.txt

# 1.50 ca-certificates 20191127-r0

## 1.50.1 Available under license :

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```
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```

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type 'show c' for details.
```

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Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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# 1.51 futures 2.1.6

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# 1.52 urllib3 1.21.1

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# Contributions to the urllib3 project

## Creator & Maintainer

\* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

\* victor.vde <<http://code.google.com/u/victor.vde/>>

\* HTTPS patch (which inspired HTTPSConnectionPool)

\* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>

\* NTLM-authenticated HTTPSConnectionPool

\* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)

\* niphlod <niphlod@gmail.com>

\* Client-verified SSL certificates for HTTPSConnectionPool

\* Response gzip and deflate encoding support

\* Better unicode support for filepost using StringIO buffers

\* btoconnor <brian@btoconnor.net>

\* Non-multipart encoding for POST requests

\* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>

\* Code review, PEP8 compliance, benchmark fix

\* kennethreitz <me@kennethreitz.com>

\* Bugfixes, suggestions, Requests integration

\* georgemarshall <<http://github.com/georgemarshall>>

\* Bugfixes, Improvements and Test coverage

\* Thomas Kluyver <thomas@kluyver.me.uk>

\* Python 3 support

\* brandon-rhodes <<http://rhodesmill.org/brandon>>

\* Design review, bugfixes, test coverage.

\* studer <theo.studer@gmail.com>

- \* IPv6 url support and test coverage
- \* Shivaram Lingamneni <slingamn@cs.stanford.edu>
- \* Support for explicitly closing pooled connections
- \* hartator <hartator@gmail.com>
- \* Corrected multipart behavior for params
- \* Thomas Weischuh <thomas@t-8ch.de>
- \* Support for TLS SNI
- \* API unification of ssl\_version/cert\_reqs
- \* SSL fingerprint and alternative hostname verification
- \* Bugfixes in testsuite
- \* Sune Kirkeby <mig@ibofobi.dk>
- \* Optional SNI-support for Python 2 via PyOpenSSL.
- \* Marc Schlaich <marc.schlaich@gmail.com>
- \* Various bugfixes and test improvements.
- \* Bryce Boe <bbzbryce@gmail.com>
- \* Correct six.moves conflict
- \* Fixed pickle support of some exceptions
- \* Boris Figovsky <boris.figovsky@ravellosystems.com>
- \* Allowed to skip SSL hostname verification
- \* Cory Benfield <<http://lukasa.co.uk/about/>>
- \* Stream method for Response objects.
- \* Return native strings in header values.
- \* Generate 'Host' header when using proxies.
- \* Jason Robinson <jaywink@basshero.org>
- \* Add missing WrappedSocket.fileno method in PyOpenSSL
- \* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- \* Fixed a race condition
- \* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- \* Added HTTPS (CONNECT) proxy support
- \* Stephen Holsapple <sholsapp@gmail.com>
- \* Added abstraction for granular control of request fields
- \* Martin von Gagern <Martin.vGagern@gmx.net>
- \* Support for non-ASCII header parameters
- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>

- \* Support for separate connect and request timeouts
  
- \* Peter Waller <p@pwaller.net>
- \* HTTPResponse.tell() for determining amount received over the wire
  
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <http://dbrgn.ch/>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module
- \* Configurable cipher suites in pyopenssl contrib module
  
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- \* Account retries on proxy errors
  
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
- \* Use the platform-specific CA certificate locations
  
- \* Josh Schneier <https://github.com/jschneier>
- \* HTTPHeaderDict and associated tests and docs
- \* Bugfixes, docs, test coverage
  
- \* Tahia Khan <http://tahia.tk/>
- \* Added Timeout examples in docs
  
- \* Arthur Grunseid <http://grunseid.com>
- \* source\_address support and tests (with https://github.com/bui)
  
- \* Ian Cordasco <graffatcolmingov@gmail.com>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <erik.tollerud@gmail.com>
- \* Support for standard library io module.
  
- \* Krishna Prasad <kprasad.iitd@gmail.com>
- \* Google App Engine documentation
  
- \* Aaron Meurer <asmeurer@gmail.com>
- \* Added Url.url, which unparses a Url
  
- \* Evgeny Kapun <abacabadabacaba@gmail.com>
- \* Bugfixes
  
- \* Benjamin Meyer <bm\_witness@yahoo.com>
- \* Security Warning Documentation update for proper capture



- \* Shivan Sornarajah <github@sornars.com>
- \* Support for using ConnectionPool and PoolManager as context managers.
  
- \* Alex Gaynor <alex.gaynor@gmail.com>
- \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <ttomecek@redhat.com>
- \* Implemented generator for getting chunks from chunked responses.
  
- \* tlynn <https://github.com/tlynn>
- \* Respect the warning preferences at import.
  
- \* David D. Riddle <ddriddle@illinois.edu>
- \* IPv6 bugfixes in testsuite
  
- \* Jon Wayne Parrott <jonwayne@google.com>
- \* App Engine environment tests.
  
- \* John Krauss <https://github.com/talos>
- \* Clues to debugging problems with `cryptography` dependency in docs
  
- \* Disassem <https://github.com/Disassem>
- \* Fix pool-default headers not applying for url-encoded requests like GET.
  
- \* James Atherfold <jlatherfold@hotmail.com>
- \* Bugfixes relating to cleanup of connections during errors.
  
- \* Christian Pedersen <https://github.com/chripede>
- \* IPv6 HTTPS proxy bugfix
  
- \* Jordan Moldow <https://github.com/jmoldow>
- \* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
- \* Bugfix for ``ConnectionPool.urlopen(release\_conn=False)``.
- \* Creation of ``HTTPConnectionPool.ResponseCls``.
  
- \* Predrag Gruevski <https://github.com/obi1kenobi>
- \* Made cert digest comparison use a constant-time algorithm.
  
- \* Adam Talsma <https://github.com/a-tal>
- \* Bugfix to ca\_cert file paths.
  
- \* Evan Meagher <https://evanmeagher.net>
- \* Bugfix related to `memoryview` usage in PyOpenSSL adapter
  
- \* John Vandenberg <jayvdb@gmail.com>
- \* Python 2.6 fixes; pyflakes and pep8 compliance
  
- \* Andy Caldwell <andy.m.caldwell@googlemail.com>

- \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <ville.skytta@iki.fi>
- \* Logging efficiency improvements, spelling fixes, Travis config.
  
- \* Shige Takeda <smtakeda@gmail.com>
- \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* Jesse Shapiro <jesse@jesseshapiro.net>
- \* Various character-encoding fixes/tweaks
- \* Disabling IPv6 DNS when IPv6 connections not supported
  
- \* David Foster <http://dafoster.net/>
- \* Ensure order of request and response headers are preserved.
  
- \* Jeremy Cline <jeremy@jcline.org>
- \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <palaviv@gmail.com>
- \* History list to Retry object.
- \* HTTPResponse contains the last Retry object.
  
- \* Nate Prewitt <nate.prewitt@gmail.com>
- \* Ensure timeouts are not booleans and greater than zero.
- \* Fixed infinite loop in ``stream`` when amt=None.
- \* Added length\_remaining to determine remaining data to be read.
- \* Added enforce\_content\_length to raise exception when incorrect content-length received.
  
- \* Seth Michael Larson <sethmichaellarson@protonmail.com>
- \* Created selectors backport that supports PEP 475.
  
- \* Alexandre Dias <alex.dias@smarkets.com>
- \* Don't retry on timeout if method not in whitelist
  
- \* Moinuddin Quadri <moin18@gmail.com>
- \* Lazily load idna package
  
- \* Tom White <s6yg1ez3@mail2tor.com>
- \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
  
- \* Tim Burke <tim.burke@gmail.com>
- \* Stop buffering entire deflate-encoded responses.
  
- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>
- \* Add counter for status\_forcelist retries.
  
- \* [Your name or handle] <[email or website]>
- \* [Brief summary of your changes]

# 1.53 backbone-forms 0.11.0

## 1.53.1 Available under license :

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# 1.54 ws4py 0.3.5

## 1.54.1 Available under license :

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Metadata-Version: 1.1

Name: ws4py

Version: 0.3.5

Summary: WebSocket client and server library for Python 2 and 3 as well as PyPy

Home-page: <https://github.com/Lawouach/WebSocket-for-Python>

Author: Sylvain Hellegouarch

Author-email: [sh@defuze.org](mailto:sh@defuze.org)

License: BSD

Download-URL: <https://pypi.python.org/pypi/ws4py>

Description: WebSocket client and server library for Python 2 and 3 as well as PyPy

Platform: any

Classifier: Development Status :: 5 - Production/Stable

Classifier: Framework :: CherryPy

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2  
Classifier: Programming Language :: Python :: 2.7  
Classifier: Programming Language :: Python :: 3  
Classifier: Programming Language :: Python :: 3.3  
Classifier: Programming Language :: Python :: 3.4  
Classifier: Programming Language :: Python :: 3.5  
Classifier: Programming Language :: Python :: Implementation :: CPython  
Classifier: Programming Language :: Python :: Implementation :: PyPy  
Classifier: Topic :: Communications  
Classifier: Topic :: Internet :: WWW/HTTP :: WSGI :: Middleware  
Classifier: Topic :: Internet :: WWW/HTTP :: WSGI :: Server  
Classifier: Topic :: Software Development :: Libraries :: Python Modules

Found in path(s):

\* /opt/cola/permits/1156180131\_1619139153.46/0/ws4py-0-3-5-tar-gz/ws4py-0.3.5/ws4py.egg-info/PKG-INFO

\* /opt/cola/permits/1156180131\_1619139153.46/0/ws4py-0-3-5-tar-gz/ws4py-0.3.5/PKG-INFO

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```

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\* /opt/cola/permits/1156180131\_1619139153.46/0/ws4py-0-3-5-tar-gz/ws4py-0.3.5/ws4py/utf8validator.py

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Found in path(s):

\* /opt/cola/permits/1156180131\_1619139153.46/0/ws4py-0-3-5-tar-gz/ws4py-0.3.5/setup.py

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# in the documentation and/or other materials provided with the  
# * Neither the name of ws4py nor the names of its  
# this software without specific prior written permission.
```

Found in path(s):

\* /opt/cola/permits/1156180131\_1619139153.46/0/ws4py-0-3-5-tar-gz/ws4py-0.3.5/ws4py/\_\_init\_\_.py

# 1.55 vcversioner 2.16.0.0-2.ph4

## 1.55.1 Available under license :

No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1

Name: vcversioner

Version: 2.16.0.0

Summary: Use version control tags to discover version numbers

Home-page: <https://github.com/habnabit/vcversioner>

Author: Aaron Gallagher

Author-email: [\\_@habnab.it](mailto: @_@habnab.it)

License: ISC

Description: .. image:: <https://travis-ci.org/habnabit/vcversioner.png>

```
=====  
vcversioner  
=====
```

`Elevator pitch`\_: you can write a ``setup.py`` with no version information specified, and vcversioner will find a recent, properly-formatted VCS tag and extract a version from it.

It's much more convenient to be able to use your version control system's tagging mechanism to derive a version number than to have to duplicate that information all over the place. I eventually ended up copy-pasting the same code into a couple different ``setup.py`` files just to avoid duplicating version information. But, copy-pasting is dumb and unit testing ``setup.py`` files is hard. This code got factored out into vcversioner.

### Basic usage

-----

vcversioner installs itself as a setuptools hook, which makes its use exceedingly simple::

```
from setuptools import setup  
  
setup(  
    # [...]  
    setup_requires=['vcversioner'],  
    vcversioner={},  
)
```

The presence of a ``vcversioner`` argument automatically activates vcversioner and updates the project's version. The parameter to the ``vcversioner``

argument can also be a dict of keyword arguments which `|find_version|` will be called with.

To allow tarballs to be distributed without requiring a ``.git`` (or ``.hg``, etc.) directory, `vcversioner` will also write out a file named (by default) ``.version.txt``. Then, if there is no VCS program or the program is unable to find any version information, `vcversioner` will read version information from the ``.version.txt`` file. However, this file needs to be included in a distributed tarball, so the following line should be added to ``.MANIFEST.in``:

```
include version.txt
```

This isn't necessary if ``.setup.py`` will always be run from a checkout, but otherwise is essential for `vcversioner` to know what version to use.

The name ``.version.txt`` also can be changed by specifying the ``.version_file`` parameter. For example::

```
from setuptools import setup

setup(
    # [...]
    setup_requires=['vcversioner'],
    vcversioner={
        'version_file': 'custom_version.txt',
    },
)
```

For compatibility with ``.semantic versioning``, ``.vcversioner`` will strip leading ``.v``\s from version tags. That is, the tag ``.v1.0`` will be treated as if it was ``.1.0``.

Other prefixes can be specified to be stripped by using the ``.strip_prefix`` argument to `vcversioner`. For compatibility with ``.git-dch``, one could specify the ``.strip_prefix`` as ``.debian/``.

Non-hook usage

-----

It's not necessary to depend on `vcversioner`; while ``.pip`` will take care of dependencies automatically, sometimes having a self-contained project is simpler. `vcversioner` is a single file which is easy to add to a project. Simply copy the entire ``.vcversioner.py`` file adjacent to the existing ``.setup.py`` file and update the usage slightly::

```
from setuptools import setup
import vcversioner
```

```

setup(
    # [...]
    version=vcversioner.find_version().version,
)

```

This is necessary because the ``vcversioner`` distutils hook won't be available.

## Version modules

-----

``setup.py`` isn't the only place that version information gets duplicated. By generating a version module, the ``\_\_init\_\_.py`` file of a package can import version information. For example, with a package named ``spam``::

```

from setuptools import setup

setup(
    # [...]
    setup_requires=['vcversioner'],
    vcversioner={
        'version_module_paths': ['spam/_version.py'],
    },
)

```

This will generate a ``spam/\_version.py`` file that defines ``\_\_version\_\_`` and ``\_\_revision\_\_``. Then, in ``spam/\_\_init\_\_.py``::

```

from spam._version import __version__, __revision__

```

Since this acts like (and *is*) a regular python module, changing ``MANIFEST.in`` is not required.

## Customizing VCS commands

-----

vcversioner by default tries to detect which VCS is being used and picks a command to run based on that. For git, that is ``git --git-dir %(root)s/.git describe --tags --long``. For hg, that is ``hg log -R %(root)s -r . --template '{latesttag}-{latesttagdistance}-hg{node|short}'``.

Any command should output a string that describes the current commit in the format ``1.0-0-gdeadbeef``. Specifically, that is ``<version number>-<number of commits between the current commit and the version tagged commit>-<revision>``.

The revision should have a VCS-specific prefix, e.g. ``g`` for git and ``hg``

for hg.

However, sometimes this isn't sufficient. If someone wanted to only use annotated tags, the git command could be amended like so::

```
from setuptools import setup

setup(
    # [...]
    setup_requires=['vcversioner'],
    vcversioner={
        'vcs_args': ['git', 'describe', '--long'],
    },
)
```

The `vcs_args` parameter must always be a list of strings, which will not be interpreted by the shell. This is the same as what `subprocess.Popen` expects.

This argument used to be spelled `git_args` until support for multiple VCS systems was added.

#### Development versions

-----

`vcversioner` can also automatically make a version that corresponds to a commit that isn't itself tagged. Following [PEP 386](#), this is done by adding a `.post` suffix to the version specified by a tag on an earlier commit. For example, if the current commit is three revisions past the `1.0` tag, the computed version will be `1.0.post3`.

This behavior can be disabled by setting the `include_dev_version` parameter to `False`. In that case, the aforementioned untagged commit's version would be just `1.0`.

Since hg requires a commit to make a tag, there's a parameter `decrement_dev_version` to subtract one from the number of commits after the most recent tag. If the VCS used is detected to be hg (i.e. the revision starts with `hg`) and `decrement_dev_version` is not specified as `False`, `decrement_dev_version` will be automatically set to `True`.

#### Project roots

-----

In order to prevent contamination from other source repositories, `vcversioner` in the 1.x version series will only look in the project root directory for



repositories. The project root defaults to the current working directory, which is often the case when running `setup.py`. This can be changed by specifying the ```root``` parameter. Someone concerned with being able to run `setup.py` from directories other than the directory containing `setup.py` should determine the project root from ```__file__``` in `setup.py`:

```
from setuptools import setup
import os

setup(
    # [...]
    setup_requires=['vcversioner'],
    vcversioner={
        'root': os.path.dirname(os.path.abspath(__file__)),
    },
)
```

To get the same behavior in the 0.x version series, ```vcs_args``` can be set to include the ```--git-dir``` flag:

```
from setuptools import setup

setup(
    # [...]
    setup_requires=['vcversioner'],
    vcversioner={
        vcs_args=['git', '--git-dir', '%(root)s/.git', 'describe',
                 '--tags', '--long'],
    },
)
```

By default, ```version.txt``` is also read from the project root.

## Substitutions

~~~~~

As seen above, `*root*`, `*version_file*`, and `*vcs_args*` each support some substitutions:

```%(root)s```

The value provided for `*root*`. This is not available for the `*root*` parameter itself.

```%(pwd)s```

The current working directory.

```/``` will automatically be translated into the correct path separator for the

current platform, such as ``:`` or ``\``.

## Sphinx documentation

-----

``Sphinx``\_ documentation is yet another place where version numbers get duplicated. Fortunately, since sphinx configuration is python code, `vcversioner` can be used there too. Assuming `vcversioner` is installed system-wide, this is quite easy. Since Sphinx is typically run with the current working directory as ``<your project root>/docs``, it's necessary to tell `vcversioner` where the project root is. Simply change your ``conf.py`` to include::

```
import vcversioner
version = release = vcversioner.find_version(root='.').version
```

This assumes that your project root is the parent directory of the current working directory. A slightly longer version which is a little more robust would be::

```
import vcversioner, os
version = release = vcversioner.find_version(
    root=os.path.dirname(os.path.dirname(os.path.abspath(__file__))))).version
```

This version is more robust because it finds the project root not relative to the current working directory but instead relative to the ``conf.py`` file.

If `vcversioner` is bundled with your project instead of relying on it being installed, you might have to add the following to your ``conf.py`` before ``import vcversioner``::

```
import sys, os
sys.path.insert(0, os.path.abspath('.'))
```

This line, or something with the same effect, is sometimes already present when using the sphinx ``autodoc`` extension.

## Read the Docs

~~~~~

Using `vcversioner` is even possible when building documentation on `Read the Docs`_`. If `vcversioner` is bundled with your project, nothing further needs to be done. Otherwise, you need to tell Read the Docs to install `vcversioner` before it builds the documentation. This means using a ``requirements.txt`` file.

If your project is already set up to install dependencies with a

``requirements.txt`` file, add ``vcversioner`` to it. Otherwise, create a ``requirements.txt`` file. Assuming your documentation is in a ``docs`` subdirectory of the main project directory, create ``docs/requirements.txt`` containing a ``vcversioner`` line.

Then, make the following changes to your project's configuration: (Project configuration is edited at e.g.

<https://readthedocs.org/dashboard/vcversioner/edit/>)

- Check the checkbox under **Use virtualenv**.
- If there was no ``requirements.txt`` previously, set the **Requirements file** to the newly-created one, e.g. ``docs/requirements.txt``.

```
.. _Elevator pitch: http://en.wikipedia.org/wiki/Elevator\_pitch
.. _pip: https://pypi.python.org/pypi/pip
.. _PEP 386: http://www.python.org/dev/peps/pep-0386/
.. _Sphinx: http://sphinx-doc.org
.. _Read the Docs: https://readthedocs.org/
.. _semantic versioning: http://semver.org/

.. |find_version| replace:: ``find_version``
```

Platform: UNKNOWN

Classifier: Development Status :: 3 - Alpha

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: ISC License (ISCL)

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Topic :: Software Development :: Version Control

Found in path(s):

```
* /opt/cola/permits/1175617864_1626889955.84/0/vcversioner-2-16-0-0-1-tar-gz/vcversioner-2.16.0.0/vcversioner.egg-info/PKG-INFO
```

```
* /opt/cola/permits/1175617864_1626889955.84/0/vcversioner-2-16-0-0-1-tar-gz/vcversioner-2.16.0.0/PKG-INFO
```

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```

Found in path(s):

\* /opt/cola/permits/1175617864\_1626889955.84/0/vcversioner-2-16-0-0-1-tar-gz/vcversioner-2.16.0.0/vcversioner.py

## 1.56 pyflakes 0.7.3

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## 1.57 apk-tools 2.10.4 r3

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## 1.58 cheroot 6.5.8

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## 1.60 alpine-keys 2.1 r2

## 1.61 Izmaffi 0.3.0

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Found in path(s):

\* /opt/cola/permits/1182334854\_1626812014.86/0/lzmaffi-0-3-0-1-tar-gz/lzmaffi-0.3.0/setup.py

No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.0

Name: lzmaffi

Version: 0.3.0

Summary: Port of Python 3.3's 'lzma' module for XZ/LZMA compressed files to cffi.

Home-page: <https://github.com/r3m0t/backports.lzma>

Author: Tomer Chachamu, based on work by Peter Cock

Author-email: [tomer.chachamu@gmail.com](mailto:tomer.chachamu@gmail.com)

License: 3-clause BSD License

Description: This is a port of the 'lzma' module included in Python 3.3 or later

by Nadeem Vawda and Per Oyvind Karlsen, which provides a Python wrapper for XZ Utils  
(aka LZMA Utils v2) by Igor Pavlov.

Unlike backports.lzma which is a straight backport, this version uses cffi which means  
it runs on PyPy without having to use the (very slow) CPyExt. It also runs perfectly  
well on CPython 2.6, 2.7 or 3.

To use, either `import lzmaffi as lzma`, or add this at the beginning of your script:

```
import lzmaffi.compat  
lzmaffi.compat.register()
```

Then `import lzma` as usual.

In order to compile this, you will need to install XZ Utils from <http://tukaani.org/xz/>

Keywords: xz lzma compression decompression cffi ffi

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Topic :: Software Development :: Libraries :: Python Modules

Classifier: Intended Audience :: Developers

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Classifier: Topic :: System :: Archiving :: Compression

Found in path(s):

\* /opt/cola/permits/1182334854\_1626812014.86/0/lzmaffi-0-3-0-1-tar-gz/lzmaffi-0.3.0/PKG-INFO

# 1.62 pyopenssl 19.0.0

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## 1.63 ip-address 1.0.17

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## 1.64 docker-pycreds 0.3.0

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## 1.65 mock 1.0.1

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## 1.66 pyyaml 4.1

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# 1.67 pytest-cov 1.6

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# 1.68 cheroot 8.3.0

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## 1.69 zlib 1.2.11 r3

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## 1.70 python-setuptools 12.0.5

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Metadata-Version: 1.1

Name: setuptools

Version: 12.0.5

Summary: Easily download, build, install, upgrade, and uninstall Python packages

Home-page: <https://bitbucket.org/pypa/setuptools>

Author: Python Packaging Authority

Author-email: [distutils-sig@python.org](mailto:distutils-sig@python.org)

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Description: =====

Installing and Using Setuptools

=====

.. contents:: **Table of Contents**

[Change History <https://pythonhosted.org/setuptools/history.html>](https://pythonhosted.org/setuptools/history.html)

-----  
Installation Instructions  
-----

The recommended way to bootstrap setuptools on any system is to download `ez_setup.py` and run it using the target Python environment. Different operating systems have different recommended techniques to accomplish this basic routine, so below are some examples to get you started.

Setuptools requires Python 2.6 or later. To install setuptools on Python 2.4 or Python 2.5, use the `bootstrap` script for Setuptools 1.x [<https://bitbucket.org/pypa/setuptools/raw/bootstrap-py24/ez\\_setup.py>](https://bitbucket.org/pypa/setuptools/raw/bootstrap-py24/ez_setup.py)

The link provided to `ez_setup.py` is a bookmark to bootstrap script for the latest known stable release.

.. `ez_setup.py`: [https://bootstrap.pypa.io/ez\\_setup.py](https://bootstrap.pypa.io/ez_setup.py)

Windows (Powershell 3 or later)

=====

For best results, uninstall previous versions FIRST (see `Uninstalling`).

Using Windows 8 (which includes PowerShell 3) or earlier versions of Windows with PowerShell 3 installed, it's possible to install with one simple Powershell command. Start up Powershell and paste this command:

```
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | python -
```

You must start the Powershell with Administrative privileges or you may choose to install a user-local installation:

```
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | python - --user
```

If you have Python 3.3 or later, you can use the `python` command to install to different Python versions. For example, to install to Python 3.3 if you have Python 2.7 installed::

```
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | python -3 -
```

The recommended way to install `setuptools` on Windows is to download `ez_setup.py`_` and run it. The script will download the appropriate distribution file and install it for you.`

Once installation is complete, you will find an `easy_install` program in your Python `Scripts` subdirectory. For simple invocation and best results, add this directory to your PATH` environment variable, if it is not already present. If you did a user-local install, the Scripts` subdirectory is %env:APPDATA\Python\Scripts`.`

#### Windows (simplified)

=====

For Windows without PowerShell 3 or for installation without a command-line, download `ez_setup.py`_` using your preferred web browser or other technique and "run" that file.`

#### Unix (wget)

=====

Most Linux distributions come with `wget`.

Download `ez_setup.py`_` and run it using the target Python version. The script will download the appropriate version and install it for you::`

```
> wget https://bootstrap.pypa.io/ez_setup.py -O - | python
```

Note that you will may need to invoke the command with superuser privileges to install to the system Python::

```
> wget https://bootstrap.pypa.io/ez_setup.py -O - | sudo python
```

Alternatively, `Setuptools` may be installed to a user-local path::

```
> wget https://bootstrap.pypa.io/ez_setup.py -O - | python - --user
```

Note that on some older systems (noted on Debian 6 and CentOS 5 installations), `wget` may refuse to download ez_setup.py` , complaining that the certificate common name *.c.ssl.fastly.net``

does not match the host name `bootstrap.pypa.io`. In addition, the `ez\_setup.py` script may then encounter similar problems using

`wget` internally to download `setuptools-x.y.zip`, complaining that the certificate common name of `www.python.org` does not match the host name `pypi.python.org`. Those are known issues, related to a bug in the older versions of `wget` (see `Issue 59` <<https://bitbucket.org/pypa/pypi/issue/59#comment-5881915>>). If you happen to encounter them,

install Setuptools as follows::

```
> wget --no-check-certificate https://bootstrap.pypa.io/ez_setup.py
> python ez_setup.py --insecure
```

Unix including Mac OS X (curl)

=====

If your system has curl installed, follow the ``wget`` instructions but replace ``wget`` with ``curl`` and ``-O`` with ``-o``. For example::

```
> curl https://bootstrap.pypa.io/ez_setup.py -o - | python
```

Advanced Installation

=====

For more advanced installation options, such as installing to custom locations or prefixes, download and extract the source tarball from `Setuptools on PyPI` <<https://pypi.python.org/pypi/setuptools>> and run setup.py with any supported distutils and Setuptools options. For example::

```
setuptools-x.x$ python setup.py install --prefix=/opt/setuptools
```

Use ``--help`` to get a full options list, but we recommend consulting the `EasyInstall manual`\_ for detailed instructions, especially the section on custom installation locations`\_.

.. \_EasyInstall manual: <https://pythonhosted.org/setuptools/EasyInstall>  
.. \_the section on custom installation locations: <https://pythonhosted.org/setuptools/EasyInstall#custom-installation-locations>

Downloads

=====

All setuptools downloads can be found at the project's home page in the Python Package Index`. Scroll to the very bottom of the page to find the links.

.. \_the project's home page in the Python Package Index: <https://pypi.python.org/pypi/setuptools>

In addition to the PyPI downloads, the development version of ``setuptools`` is available from the `Bitbucket repo`\_, and in-development versions of the `0.6 branch`\_ are available as well.

.. \_Bitbucket repo: <https://bitbucket.org/pypa/setuptools/get/default.tar.gz#egg=setuptools-dev>

.. \_0.6 branch: <http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06>

## Uninstalling

=====

On Windows, if Setuptools was installed using an ``.exe`` or ``.msi`` installer, simply use the uninstall feature of "Add/Remove Programs" in the Control Panel.

Otherwise, to uninstall Setuptools or Distribute, regardless of the Python version, delete all ``setuptools\*`` and ``distribute\*`` files and directories from your system's ``site-packages`` directory (and any other ``sys.path`` directories) FIRST.

If you are upgrading or otherwise plan to re-install Setuptools or Distribute, nothing further needs to be done. If you want to completely remove Setuptools, you may also want to remove the 'easy\_install' and 'easy\_install-x.x' scripts and associated executables installed to the Python scripts directory.

-----

## Using Setuptools and EasyInstall

-----

Here are some of the available manuals, tutorials, and other resources for learning about Setuptools, Python Eggs, and EasyInstall:

- \* `The EasyInstall user's guide and reference manual`\_
- \* `The setuptools Developer's Guide`\_
- \* `The pkg\_resources API reference`\_
- \* `The Internal Structure of Python Eggs`\_

Questions, comments, and bug reports should be directed to the `distutils-sig mailing list`\_. If you have written (or know of) any tutorials, documentation, plug-ins, or other resources for setuptools users, please let us know about them there, so this reference list can be updated. If you have working, \*tested\* patches to correct problems or add features, you may submit them to the `setuptools bug tracker`\_.

.. \_setuptools bug tracker: <https://bitbucket.org/pypa/setuptools/issues>

.. \_The Internal Structure of Python Eggs: <https://pythonhosted.org/setuptools/formats.html>

.. \_The setuptools Developer's Guide: <https://pythonhosted.org/setuptools/setuptools.html>



.. \_The pkg\_resources API reference: [https://pythonhosted.org/setuptools/pkg\\_resources.html](https://pythonhosted.org/setuptools/pkg_resources.html)  
.. \_The EasyInstall user's guide and reference manual: [https://pythonhosted.org/setuptools/easy\\_install.html](https://pythonhosted.org/setuptools/easy_install.html)  
.. \_distutils-sig mailing list: <http://mail.python.org/pipermail/distutils-sig/>

-----  
Credits  
-----

- \* The original design for the ``.egg`` format and the ``pkg\_resources`` API was co-created by Phillip Eby and Bob Ippolito. Bob also implemented the first version of ``pkg\_resources``, and supplied the OS X operating system version compatibility algorithm.
- \* Ian Bicking implemented many early "creature comfort" features of easy\_install, including support for downloading via Sourceforge and Subversion repositories. Ian's comments on the Web-SIG about WSGI application deployment also inspired the concept of "entry points" in eggs, and he has given talks at PyCon and elsewhere to inform and educate the community about eggs and setuptools.
- \* Jim Fulton contributed time and effort to build automated tests of various aspects of ``easy\_install``, and supplied the doctests for the command-line ``.exe`` wrappers on Windows.
- \* Phillip J. Eby is the seminal author of setuptools, and first proposed the idea of an importable binary distribution format for Python application plug-ins.
- \* Significant parts of the implementation of setuptools were funded by the Open Source Applications Foundation, to provide a plug-in infrastructure for the Chandler PIM application. In addition, many OSAF staffers (such as Mike "Code Bear" Taylor) contributed their time and stress as guinea pigs for the use of eggs and setuptools, even before eggs were "cool". (Thanks, guys!)
- \* Tarek Ziad is the principal author of the Distribute fork, which re-invigorated the community on the project, encouraged renewed innovation, and addressed many defects.
- \* Since the merge with Distribute, Jason R. Coombs is the maintainer of setuptools. The project is maintained in coordination with the Python Packaging Authority (PyPA) and the larger Python community.

.. \_files:

Keywords: CPAN PyPI distutils eggs package management

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers  
Classifier: License :: OSI Approved :: Python Software Foundation License  
Classifier: License :: OSI Approved :: Zope Public License  
Classifier: Operating System :: OS Independent  
Classifier: Programming Language :: Python :: 2.6  
Classifier: Programming Language :: Python :: 2.7  
Classifier: Programming Language :: Python :: 3  
Classifier: Programming Language :: Python :: 3.1  
Classifier: Programming Language :: Python :: 3.2  
Classifier: Programming Language :: Python :: 3.3  
Classifier: Programming Language :: Python :: 3.4  
Classifier: Topic :: Software Development :: Libraries :: Python Modules  
Classifier: Topic :: System :: Archiving :: Packaging  
Classifier: Topic :: System :: Systems Administration  
Classifier: Topic :: Utilities

Found in path(s):

\* /opt/cola/permits/1155085362\_1618931365.18/0/setuptools-12-0-5-tar-gz/setuptools-12.0.5/PKG-INFO  
\* /opt/cola/permits/1155085362\_1618931365.18/0/setuptools-12-0-5-tar-gz/setuptools-12.0.5/setuptools.egg-info/PKG-INFO

No license file was found, but licenses were detected in source scan.

=====  
CHANGES  
=====

-----  
12.0.5  
-----

\* Issue #339: Correct Attribute reference in ``cant\_write\_to\_target``.

-----  
12.0.4  
-----

\* Issue #335: Fix script header generation on Windows.

-----  
12.0.3  
-----

\* Fixed incorrect class attribute in ``install\_scripts``. Tests would be nice.

-----  
12.0.2  
-----

\* Issue #331: Fixed `install_scripts` command on Windows systems corrupting the header.

-----  
12.0.1  
-----

\* Restore `setuptools.command.easy_install.sys_executable` for pbr compatibility. For the future, tools should construct a `CommandSpec` explicitly.

----  
12.0  
----

\* Issue #188: Setuptools now support multiple entities in the value for `build.executable`, such that an executable of `"/usr/bin/env my-python"` may be specified. This means that systems with a specified executable whose name has spaces in the path must be updated to escape or quote that value.  
\* Deprecated `easy_install.ScriptWriter.get_writer`, replaced by `.best()` with slightly different semantics (no `force_windows` flag).

-----  
11.3.1  
-----

\* Issue #327: Formalize and restore support for any printable character in an entry point name.

----  
11.3  
----

\* Expose `EntryPoint.resolve` in place of `EntryPoint._load`, implementing the simple, non-requiring load. Deprecated all uses of `EntryPoint._load` except for calling with no parameters, which is just a shortcut for `ep.require(); ep.resolve();`.

Apps currently invoking `ep.load(require=False)` should instead do the following if wanting to avoid the deprecating warning::

```
getattr(ep, "resolve", lambda: ep.load(require=False))()
```

----  
11.2  
----

\* Pip #2326: Report deprecation warning at stacklevel 2 for easier diagnosis.

----

## 11.1

----

\* Issue #281: Since Setuptools 6.1 (Issue #268), a ValueError would be raised in certain cases where VersionConflict was raised with two arguments, which occurred in `pkg_resources.WorkingSet.find``. This release adds support for indicating the dependent packages while maintaining support for a VersionConflict when no dependent package context is known. New unit tests now capture the expected interface.

----

## 11.0

----

\* Interop #3: Upgrade to Packaging 15.0; updates to PEP 440 so that >1.7 does not exclude 1.7.1 but does exclude 1.7.0 and 1.7.0.post1.

-----

## 10.2.1

-----

\* Issue #323: Fix regression in entry point name parsing.

----

## 10.2

----

\* Deprecated use of `EntryPoint.load(require=False)`. Passing a boolean to a function to select behavior is an anti-pattern. Instead use `EntryPoint.load()`.

\* Substantial refactoring of all unit tests. Tests are now much leaner and re-use a lot of fixtures and contexts for better clarity of purpose.

----

## 10.1

----

\* Issue #320: Added a compatibility implementation of `sdist._default_revctrl`` so that systems relying on that interface do not fail (namely, Ubuntu 12.04 and similar Debian releases).

-----

## 10.0.1

-----

\* Issue #319: Fixed issue installing pure distutils packages.

----  
10.0  
----

\* Issue #313: Removed built-in support for subversion. Projects wishing to retain support for subversion will need to use a third party library. The extant implementation is being ported to `setuptools_svn` <[https://pypi.python.org/pypi/setuptools\\_svn](https://pypi.python.org/pypi/setuptools_svn)>`\_.

\* Issue #315: Updated setuptools to hide its own loaded modules during installation of another package. This change will enable setuptools to upgrade (or downgrade) itself even when its own metadata and implementation change.

---  
9.1  
---

\* Prefer vendored packaging library `as recommended

<<https://github.com/jaraco/setuptools/commit/170657b68f4b92e7e1bf82f5e19a831f5744af67#commitcomment-9109448>>`\_.

-----  
9.0.1  
-----

\* Issue #312: Restored presence of `pkg_resources` API tests (doctest) to `sdist`.

---  
9.0  
---

\* Issue #314: Disabled support for `setup_requires` metadata to avoid issue where Setuptools was unable to upgrade over earlier versions.

---  
8.4  
---

\* Pull Request #106: Now write `setup_requires` metadata.

---  
8.3  
---

\* Issue #311: Decoupled `pkg_resources` from setuptools once again. `pkg_resources` is now a package instead of a module.

-----

### 8.2.1

-----

\* Issue #306: Suppress warnings about Version format except in select scenarios (such as installation).

---

## 8.2

---

\* Pull Request #85: Search egg-base when adding egg-info to manifest.

---

## 8.1

---

\* Upgrade ``packaging`` to 14.5, giving preference to "rc" as designator for release candidates over "c".

\* PEP-440 warnings are now raised as their own class, ``pkg\_resources.PEP440Warning``, instead of RuntimeWarning.

\* Disabled warnings on empty versions.

-----

### 8.0.4

-----

\* Upgrade ``packaging`` to 14.4, fixing an error where there is a different result for if 2.0.5 is contained within >2.0dev and >2.0.dev even though normalization rules should have made them equal.

\* Issue #296: Add warning when a version is parsed as legacy. This warning will make it easier for developers to recognize deprecated version numbers.

-----

### 8.0.3

-----

\* Issue #296: Restored support for ``\_\_hash\_\_`` on parse\_version results.

-----

### 8.0.2

-----

\* Issue #296: Restored support for ``\_\_getitem\_\_`` and sort operations on parse\_version result.

-----

## 8.0.1

-----

\* Issue #296: Restore support for iteration over `parse_version` result, but deprecated that usage with a warning. Fixes failure with buildout.

---

## 8.0

---

\* Implement `PEP 440` <<http://legacy.python.org/dev/peps/pep-0440/>> within `pkg_resources` and `setuptools`. This change deprecates some version numbers such that they will no longer be installable without using the ```===``` escape hatch. See `the changes to test_resources` <[https://bitbucket.org/pypa/setuptools/commits/dcd552da643c4448056de84c73d56da6d70769d5#chg-setuptools/tests/test\\_resources.py](https://bitbucket.org/pypa/setuptools/commits/dcd552da643c4448056de84c73d56da6d70769d5#chg-setuptools/tests/test_resources.py)> for specific examples of version numbers and specifiers that are no longer supported. `Setuptools` now "vendors" the `packaging` <<https://github.com/pypa/packaging>> library.

---

## 7.0

---

\* Issue #80, Issue #209: Eggs that are downloaded for ```setup_requires```, ```test_requires```, etc. are now placed in a ```./eggs``` directory instead of directly in the current directory. This choice of location means the files can be readily managed (removed, ignored). Additionally, later phases or invocations of `setuptools` will not detect the package as already installed and ignore it for permanent install (See #209).

This change is indicated as backward-incompatible as installations that depend on the installation in the current directory will need to account for the new location. Systems that ignore ```*.egg``` will probably need to be adapted to ignore ```.eggs```. The files will need to be manually moved or will be retrieved again. Most use cases will require no attention.

---

## 6.1

---

\* Issue #268: When resolving package versions, a `VersionConflict` now reports which package previously required the conflicting version.

-----

## 6.0.2

-----

\* Issue #262: Fixed regression in pip install due to egg-info directories being omitted. Re-opens Issue #118.

-----  
6.0.1

-----  
\* Issue #259: Fixed regression with namespace package handling on ``single version, externally managed`` installs.

---  
6.0  
---

\* Issue #100: When building a distribution, Setuptools will no longer match default files using platform-dependent case sensitivity, but rather will only match the files if their case matches exactly. As a result, on Windows and other case-insensitive file systems, files with names such as 'readme.txt' or 'README.TXT' will be omitted from the distribution and a warning will be issued indicating that 'README.txt' was not found. Other filenames affected are:

- README.rst
- README
- setup.cfg
- setup.py (or the script name)
- test/test\*.py

Any users producing distributions with filenames that match those above case-insensitively, but not case-sensitively, should rename those files in their repository for better portability.

\* Pull Request #72: When using ``single\_version\_externally\_managed``, the exclusion list now includes Python 3.2 ``\_\_pycache\_\_`` entries.

\* Pull Request #76 and Pull Request #78: lines in top\_level.txt are now ordered deterministically.

\* Issue #118: The egg-info directory is now no longer included in the list of outputs.

\* Issue #258: Setuptools now patches distutils msvc9compiler to recognize the specially-packaged compiler package for easy extension module support on Python 2.6, 2.7, and 3.2.

---  
5.8  
---

\* Issue #237: ``pkg\_resources`` now uses explicit detection of Python 2 vs. Python 3, supporting environments where builtins have been patched to make Python 3 look more like Python 2.



---  
5.7  
---

\* Issue #240: Based on real-world performance measures against 5.4, zip manifests are now cached in all circumstances. The ``PKG\_RESOURCES\_CACHE\_ZIP\_MANIFESTS`` environment variable is no longer relevant. The observed "memory increase" referenced in the 5.4 release notes and detailed in Issue #154 was likely not an increase over the status quo, but rather only an increase over not storing the zip info at all.

---  
5.6  
---

\* Issue #242: Use absolute imports in svn\_utils to avoid issues if the installing package adds an xml module to the path.

-----  
5.5.1  
-----

\* Issue #239: Fix typo in 5.5 such that fix did not take.

---  
5.5  
---

\* Issue #239: Setuptools now includes the setup\_requires directive on Distribution objects and validates the syntax just like install\_requires and tests\_require directives.

-----  
5.4.2  
-----

\* Issue #236: Corrected regression in execfile implementation for Python 2.6.

-----  
5.4.1  
-----

\* Python #7776: (ssl\_support) Correct usage of host for validation when tunneling for HTTPS.

---  
5.4

---

\* Issue #154: `pkg_resources` will now cache the zip manifests rather than re-processing the same file from disk multiple times, but only if the environment variable `PKG_RESOURCES_CACHE_ZIP_MANIFESTS` is set. Clients that package many modules in the same zip file will see some improvement in startup time by enabling this feature. This feature is not enabled by default because it causes a substantial increase in memory usage.

---

### 5.3

---

\* Issue #185: Make svn tagging work on the new style SVN metadata.  
Thanks cazabon!  
\* Prune revision control directories (e.g. `.svn`) from base path as well as sub-directories.

---

### 5.2

---

\* Added a `Developer Guide` [\(<https://pythonhosted.org/setuptools/developer-guide.html>\)](https://pythonhosted.org/setuptools/developer-guide.html) to the official documentation.  
\* Some code refactoring and cleanup was done with no intended behavioral changes.  
\* During `install_egg_info`, the generated lines for namespace package `.pth` files are now processed even during a dry run.

---

### 5.1

---

\* Issue #202: Implemented more robust cache invalidation for the `ZipImporter`, building on the work in Issue #168. Special thanks to Jurko Gospodnetic and PJE.

-----

### 5.0.2

-----

\* Issue #220: Restored script templates.

-----

### 5.0.1

-----

\* Renamed script templates to end with .tmpl now that they no longer need to be processed by 2to3. Fixes spurious syntax errors during build/install.

---  
5.0  
---

\* Issue #218: Re-release of 3.8.1 to signal that it supersedes 4.x.  
\* Incidentally, script templates were updated not to include the triple-quote escaping.

-----  
3.7.1 and 3.8.1 and 4.0.1  
-----

\* Issue #213: Use legacy StringIO behavior for compatibility under pbr.  
\* Issue #218: Setuptools 3.8.1 superseded 4.0.1, and 4.x was removed from the available versions to install.

---  
4.0  
---

\* Issue #210: ``setup.py develop`` now copies scripts in binary mode rather than text mode, matching the behavior of the ``install`` command.

---  
3.8  
---

\* Extend Issue #197 workaround to include all Python 3 versions prior to 3.2.2.

---  
3.7  
---

\* Issue #193: Improved handling of Unicode filenames when building manifests.

---  
3.6  
---

\* Issue #203: Honor proxy settings for Powershell downloader in the bootstrap routine.

-----  
3.5.2

-----

\* Issue #168: More robust handling of replaced zip files and stale caches.  
Fixes ZipImportError complaining about a 'bad local header'.

-----

3.5.1

-----

\* Issue #199: Restored ``install.\_install`` for compatibility with earlier  
NumPy versions.

---

3.5

---

\* Issue #195: Follow symbolic links in find\_packages (restoring behavior  
broken in 3.4).  
\* Issue #197: On Python 3.1, PKG-INFO is now saved in a UTF-8 encoding instead  
of ``sys.getpreferredencoding`` to match the behavior on Python 2.6-3.4.  
\* Issue #192: Preferred bootstrap location is now  
[https://bootstrap.pypa.io/ez\\_setup.py](https://bootstrap.pypa.io/ez_setup.py) (mirrored from former location).

-----

3.4.4

-----

\* Issue #184: Correct failure where find\_package over-matched packages  
when directory traversal isn't short-circuited.

-----

3.4.3

-----

\* Issue #183: Really fix test command with Python 3.1.

-----

3.4.2

-----

\* Issue #183: Fix additional regression in test command on Python 3.1.

-----

3.4.1

-----

\* Issue #180: Fix regression in test command not caught by py.test-run tests.

---

3.4

---

- \* Issue #176: Add parameter to the test command to support a custom test runner: `--test-runner` or `-r`.
- \* Issue #177: Now assume most common invocation to install command on platforms/environments without stack support (issuing a warning). Setuptools now installs naturally on IronPython. Behavior on CPython should be unchanged.

---

3.3

---

- \* Add `include` parameter to `setuptools.find_packages()`.

---

3.2

---

- \* Pull Request #39: Add support for C++ targets from Cython `.pyx` files.
- \* Issue #162: Update dependency on `certifi` to 1.0.1.
- \* Issue #164: Update dependency on `wincertstore` to 0.2.

---

3.1

---

- \* Issue #161: Restore Features functionality to allow backward compatibility (for Features) until the uses of that functionality is sufficiently removed.

-----

3.0.2

-----

- \* Correct typo in previous bugfix.

-----

3.0.1

-----

- \* Issue #157: Restore support for Python 2.6 in bootstrap script where `zipfile.ZipFile` does not yet have support for context managers.

---

3.0

---

- \* Issue #125: Prevent Subversion support from creating a `~/subversion` directory just for checking the presence of a Subversion repository.
- \* Issue #12: Namespace packages are now imported lazily. That is, the mere declaration of a namespace package in an egg on `sys.path` no longer causes it to be imported when `pkg_resources` is imported. Note that this change means that all of a namespace package's `__init__.py` files must include a `declare_namespace()` call in order to ensure that they will be handled properly at runtime. In 2.x it was possible to get away without including the declaration, but only at the cost of forcing namespace packages to be imported early, which 3.0 no longer does.
- \* Issue #148: When building (bdist\_egg), setuptools no longer adds `__init__.py` files to namespace packages. Any packages that rely on this behavior will need to create `__init__.py` files and include the `declare_namespace()`.
- \* Issue #7: Setuptools itself is now distributed as a zip archive in addition to tar archive. `ez_setup.py` now uses zip archive. This approach avoids the potential security vulnerabilities presented by use of tar archives in `ez_setup.py`. It also leverages the security features added to `ZipFile.extract` in Python 2.7.4.
- \* Issue #65: Removed deprecated Features functionality.
- \* Pull Request #28: Remove backport of `_bytecode_filenames` which is available in Python 2.6 and later, but also has better compatibility with Python 3 environments.
- \* Issue #156: Fix spelling of `__PYVENV_LAUNCHER__` variable.

---  
2.2  
---

- \* Issue #141: Restored fix for allowing `setup_requires` dependencies to override installed dependencies during setup.
- \* Issue #128: Fixed issue where only the first dependency link was honored in a distribution where multiple dependency links were supplied.

-----  
2.1.2  
-----

- \* Issue #144: Read `long_description` using `codecs` module to avoid errors installing on systems where `LANG=C`.

-----  
2.1.1  
-----

- \* Issue #139: Fix regression in `re_finder` for CVS repos (and maybe Git repos as well).

---

2.1

---

\* Issue #129: Suppress inspection of ``\*.whl`` files when searching for files in a zip-imported file.

\* Issue #131: Fix RuntimeError when constructing an egg fetcher.

-----

2.0.2

-----

\* Fix NameError during installation with Python implementations (e.g. Jython) not containing parser module.

\* Fix NameError in ``sdist:re\_finder``.

-----

2.0.1

-----

\* Issue #124: Fixed error in list detection in upload\_docs.

---

2.0

---

\* Issue #121: Exempt lib2to3 pickled grammars from DirectorySandbox.

\* Issue #41: Dropped support for Python 2.4 and Python 2.5. Clients requiring setuptools for those versions of Python should use setuptools 1.x.

\* Removed ``setuptools.command.easy\_install.HAS\_USER\_SITE``. Clients expecting this boolean variable should use ``site.ENABLE\_USER\_SITE`` instead.

\* Removed ``pkg\_resources.ImpWrapper``. Clients that expected this class should use ``pkgutil.ImpImporter`` instead.

-----

1.4.2

-----

\* Issue #116: Correct TypeError when reading a local package index on Python 3.

-----

1.4.1

-----

\* Issue #114: Use ``sys.getfilesystemencoding`` for decoding config in ``bdist\_wininst`` distributions.

\* Issue #105 and Issue #113: Establish a more robust technique for determining the terminal encoding::

1. Try `getpreferredencoding`
2. If that returns `US_ASCII` or `None`, try the encoding from `getdefaultlocale`. If that encoding was a "fallback" because Python could not figure it out from the environment or OS, encoding remains unresolved.
3. If the encoding is resolved, then make sure Python actually implements the encoding.
4. On the event of an error or unknown codec, revert to fallbacks (UTF-8 on Darwin, ASCII on everything else).
5. On the encoding is 'mac-roman' on Darwin, use UTF-8 as 'mac-roman' was a bug on older Python releases.

On a side note, it would seem that the encoding only matters for when SVN does not yet support `--xml` and when getting repository and svn version numbers. The `--xml` technique should yield UTF-8 according to some messages on the SVN mailing lists. So if the version numbers are always 7-bit ASCII clean, it may be best to only support the file parsing methods for legacy SVN releases and support for SVN without the subprocess command would simple go away as support for the older SVNs does.

---  
1.4  
---

- \* Issue #27: `easy_install` will now use credentials from `.pypirc` if present for connecting to the package index.
- \* Pull Request #21: Omit unwanted newlines in `package_index._encode_auth` when the username/password pair length indicates wrapping.

-----  
1.3.2  
-----

- \* Issue #99: Fix filename encoding issues in SVN support.

-----  
1.3.1  
-----

- \* Remove exuberant warning in SVN support when SVN is not used.

---  
1.3  
---



- \* Address security vulnerability in SSL match\_hostname check as reported in Python #17997.
- \* Prefer `backports.ssl_match_hostname`  
<[https://pypi.python.org/pypi/backports.ssl\\_match\\_hostname](https://pypi.python.org/pypi/backports.ssl_match_hostname)>\_ for backport implementation if present.
- \* Correct NameError in `ssl_support` module (`socket.error`).

---  
1.2  
---

- \* Issue #26: Add support for SVN 1.7. Special thanks to Philip Thiem for the contribution.
- \* Issue #93: Wheels are now distributed with every release. Note that as reported in Issue #108, as of Pip 1.4, scripts aren't installed properly from wheels. Therefore, if using Pip to install setuptools from a wheel, the `easy_install` command will not be available.
- \* Setuptools "natural" launcher support, introduced in 1.0, is now officially supported.

-----  
1.1.7  
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- \* Fixed behavior of NameError handling in 'script template (dev).py' (script launcher for 'develop' installs).
- \* `ez_setup.py` now ensures partial downloads are cleaned up following a failed download.
- \* Distribute #363 and Issue #55: Skip an sdist test that fails on locales other than UTF-8.

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1.1.6  
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- \* Distribute #349: `sandbox.execfile` now opens the target file in binary mode, thus honoring a BOM in the file when compiled.

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1.1.5  
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- \* Issue #69: Second attempt at fix (logic was reversed).

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1.1.4  
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\* Issue #77: Fix error in upload command (Python 2.4).

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1.1.3

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\* Fix NameError in previous patch.

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1.1.2

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\* Issue #69: Correct issue where 404 errors are returned for URLs with fragments in them (such as #egg=).

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1.1.1

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\* Issue #75: Add ``--insecure`` option to ez\_setup.py to accommodate environments where a trusted SSL connection cannot be validated.  
\* Issue #76: Fix AttributeError in upload command with Python 2.4.

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1.1

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\* Issue #71 (Distribute #333): EasyInstall now puts less emphasis on the condition when a host is blocked via ``--allow-hosts``.  
\* Issue #72: Restored Python 2.4 compatibility in ``ez\_setup.py``.

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1.0

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\* Issue #60: On Windows, Setuptools supports deferring to another launcher, such as Vinay Sajip's `pylauncher` <<https://bitbucket.org/pypa/pylauncher>> (included with Python 3.3) to launch console and GUI scripts and not install its own launcher executables. This experimental functionality is currently only enabled if the `SETUPTOOLS_LAUNCHER` environment variable is set to "natural". In the future, this behavior may become default, but only after it has matured and seen substantial adoption. The `SETUPTOOLS_LAUNCHER` also accepts "executable" to force the default behavior of creating launcher executables.

\* Issue #63: Bootstrap script (ez\_setup.py) now prefers Powershell, curl, or wget for retrieving the Setuptools tarball for improved security of the install. The script will still fall back to a simple `urlopen` on

platforms that do not have these tools.

- \* Issue #65: Deprecated the ``Features`` functionality.
- \* Issue #52: In ``VerifyingHTTPSConn``, handle a tunnelled (proxied) connection.

## Backward-Incompatible Changes

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This release includes a couple of backward-incompatible changes, but most if not all users will find 1.0 a drop-in replacement for 0.9.

- \* Issue #50: Normalized API of environment marker support. Specifically, removed line number and filename from `SyntaxErrors` when returned from ``pkg_resources.invalid_marker``. Any clients depending on the specific string representation of exceptions returned by that function may need to be updated to account for this change.
- \* Issue #50: `SyntaxErrors` generated by ``pkg_resources.invalid_marker`` are normalized for cross-implementation consistency.
- \* Removed ``--ignore-conflicts-at-my-risk`` and ``--delete-conflicting`` options to `easy_install`. These options have been deprecated since 0.6a11.

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0.9.8  
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- \* Issue #53: Fix `NameErrors` in ``_vcs_split_rev_from_url``.

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0.9.7  
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- \* Issue #49: Correct `AttributeError` on PyPy where a `hashlib.HASH` object does not have a ``.name`` attribute.
- \* Issue #34: Documentation now refers to bootstrap script in code repository referenced by bookmark.
- \* Add underscore-separated keys to environment markers (markerlib).

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0.9.6  
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- \* Issue #44: Test failure on Python 2.4 when MD5 hash doesn't have a ``.name`` attribute.

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0.9.5  
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\* Python #17980: Fix security vulnerability in SSL certificate validation.

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0.9.4

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\* Issue #43: Fix issue (introduced in 0.9.1) with version resolution when upgrading over other releases of Setuptools.

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0.9.3

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\* Issue #42: Fix new ``AttributeError`` introduced in last fix.

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0.9.2

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\* Issue #42: Fix regression where blank checksums would trigger an ``AttributeError``.

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0.9.1

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\* Distribute #386: Allow other positional and keyword arguments to os.open.  
\* Corrected dependency on certifi mis-referenced in 0.9.

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0.9

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\* `package\_index` now validates hashes other than MD5 in download links.

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0.8

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\* Code base now runs on Python 2.4 - Python 3.3 without Python 2to3 conversion.

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0.7.8

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\* Distribute #375: Yet another fix for yet another regression.

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0.7.7

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- \* Distribute #375: Repair AttributeError created in last release (redo).
- \* Issue #30: Added test for get\_cache\_path.

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0.7.6

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- \* Distribute #375: Repair AttributeError created in last release.

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0.7.5

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- \* Issue #21: Restore Python 2.4 compatibility in `test_easy_install``.
- \* Distribute #375: Merged additional warning from Distribute 0.6.46.
- \* Now honor the environment variable `SETUPTOOLS_DISABLE_VERSIONED_EASY_INSTALL_SCRIPT`` in addition to the now deprecated `DISTRIBUTE_DISABLE_VERSIONED_EASY_INSTALL_SCRIPT``.

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0.7.4

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- \* Issue #20: Fix comparison of parsed SVN version on Python 3.

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0.7.3

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- \* Issue #1: Disable installation of Windows-specific files on non-Windows systems.
- \* Use new sysconfig module with Python 2.7 or  $\geq 3.2$ .

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0.7.2

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- \* Issue #14: Use markerlib when the `parser`` module is not available.
- \* Issue #10: `ez_setup.py`` now uses HTTPS to download setuptools from PyPI.

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0.7.1

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- \* Fix NameError (Issue #3) again - broken in bad merge.

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0.7  
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\* Merged Setuptools and Distribute. See docs/merge.txt for details.

Added several features that were slated for setuptools 0.6c12:

- \* Index URL now defaults to HTTPS.
- \* Added experimental environment marker support. Now clients may designate a PEP-426 environment marker for "extra" dependencies. Setuptools uses this feature in ``setup.py`` for optional SSL and certificate validation support on older platforms. Based on Distutils-SIG discussions, the syntax is somewhat tentative. There should probably be a PEP with a firmer spec before the feature should be considered suitable for use.
- \* Added support for SSL certificate validation when installing packages from an HTTPS service.

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0.7b4  
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\* Issue #3: Fixed NameError in SSL support.

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0.6.49  
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\* Move warning check in ``get\_cache\_path`` to follow the directory creation to avoid errors when the cache path does not yet exist. Fixes the error reported in Distribute #375.

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0.6.48  
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\* Correct AttributeError in ``ResourceManager.get\_cache\_path`` introduced in 0.6.46 (redo).

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0.6.47  
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\* Correct AttributeError in ``ResourceManager.get\_cache\_path`` introduced in 0.6.46.

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0.6.46

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\* Distribute #375: Issue a warning if the PYTHON\_EGG\_CACHE or otherwise customized egg cache location specifies a directory that's group- or world-writable.

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0.6.45

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\* Distribute #379: ``distribute\_setup.py`` now traps VersionConflict as well, restoring ability to upgrade from an older setuptools version.

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0.6.44

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\* ``distribute\_setup.py`` has been updated to allow Setuptools 0.7 to satisfy use\_setuptools.

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0.6.43

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\* Distribute #378: Restore support for Python 2.4 Syntax (regression in 0.6.42).

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0.6.42

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\* External links finder no longer yields duplicate links.

\* Distribute #337: Moved site.py to setuptools/site-patch.py (graft of very old patch from setuptools trunk which inspired PR #31).

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0.6.41

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\* Distribute #27: Use public api for loading resources from zip files rather than the private method ``\_zip\_directory\_cache``.

\* Added a new function ``easy\_install.get\_win\_launcher`` which may be used by third-party libraries such as buildout to get a suitable script launcher.

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0.6.40

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\* Distribute #376: brought back cli.exe and gui.exe that were deleted in the previous release.

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0.6.39

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- \* Add support for console launchers on ARM platforms.
  - \* Fix possible issue in GUI launchers where the subsystem was not supplied to the linker.
  - \* Launcher build script now refactored for robustness.
  - \* Distribute #375: Resources extracted from a zip egg to the file system now also check the contents of the file against the zip contents during each invocation of `get_resource_filename`.

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0.6.38

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- \* Distribute #371: The launcher manifest file is now installed properly.

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0.6.37

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- \* Distribute #143: Launcher scripts, including `easy_install` itself, are now accompanied by a manifest on 32-bit Windows environments to avoid the Installer Detection Technology and thus undesirable UAC elevation described in [this Microsoft article](http://technet.microsoft.com/en-us/library/cc709628%28WS.10%29.aspx) `<http://technet.microsoft.com/en-us/library/cc709628%28WS.10%29.aspx>`_.`

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0.6.36

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- \* Pull Request #35: In Buildout #64, it was reported that under Python 3, installation of `distutils` scripts could attempt to copy the `__pycache__` directory as a file, causing an error, apparently only under Windows. `Easy_install` now skips all directories when processing metadata scripts.

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0.6.35

Note this release is backward-incompatible with distribute 0.6.23-0.6.34 in how it parses version numbers.



\* Distribute #278: Restored compatibility with distribute 0.6.22 and setuptools 0.6. Updated the documentation to match more closely with the version parsing as intended in setuptools 0.6.

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0.6.34  
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\* Distribute #341: 0.6.33 fails to build under Python 2.4.

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0.6.33  
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\* Fix 2 errors with Jython 2.5.  
\* Fix 1 failure with Jython 2.5 and 2.7.  
\* Disable workaround for Jython scripts on Linux systems.  
\* Distribute #336: `setup.py` no longer masks failure exit code when tests fail.  
\* Fix issue in pkg\_resources where try/except around a platform-dependent import would trigger hook load failures on Mercurial. See pull request 32 for details.  
\* Distribute #341: Fix a ResourceWarning.

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0.6.32  
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\* Fix test suite with Python 2.6.  
\* Fix some DeprecationWarnings and ResourceWarnings.  
\* Distribute #335: Backed out `setup\_requires` superceding installed requirements until regression can be addressed.

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0.6.31  
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\* Distribute #303: Make sure the manifest only ever contains UTF-8 in Python 3.  
\* Distribute #329: Properly close files created by tests for compatibility with Jython.  
\* Work around Jython #1980 and Jython #1981.  
\* Distribute #334: Provide workaround for packages that reference `sys.\_\_stdout\_\_` such as numpy does. This change should address `virtualenv #359 <https://github.com/pypa/virtualenv/issues/359>` as long as the system encoding is UTF-8 or the IO encoding is specified in the environment, i.e.:

```
PYTHONIOENCODING=utf8 pip install numpy
```

- \* Fix for encoding issue when installing from Windows executable on Python 3.
- \* Distribute #323: Allow `setup_requires` requirements to supercede installed requirements. Added some new keyword arguments to existing `pkg_resources` methods. Also had to updated how `__path__` is handled for namespace packages to ensure that when a new egg distribution containing a namespace package is placed on `sys.path`, the entries in `__path__` are found in the same order they would have been in had that egg been on the path when `pkg_resources` was first imported.

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0.6.30  
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- \* Distribute #328: Clean up temporary directories in `distribute_setup.py`.
- \* Fix fatal bug in `distribute_setup.py`.

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0.6.29  
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- \* Pull Request #14: Honor file permissions in zip files.
- \* Distribute #327: Merged pull request #24 to fix a dependency problem with pip.
- \* Merged pull request #23 to fix <https://github.com/pypa/virtualenv/issues/301>.
- \* If Sphinx is installed, the `upload_docs` command now runs `build_sphinx` to produce uploadable documentation.
- \* Distribute #326: `upload_docs` provided mangled auth credentials under Python 3.
- \* Distribute #320: Fix check for "createable" in `distribute_setup.py`.
- \* Distribute #305: Remove a warning that was triggered during normal operations.
- \* Distribute #311: Print metadata in UTF-8 independent of platform.
- \* Distribute #303: Read manifest file with UTF-8 encoding under Python 3.
- \* Distribute #301: Allow to run tests of namespace packages when using 2to3.
- \* Distribute #304: Prevent import loop in `site.py` under Python 3.3.
- \* Distribute #283: Reenable scanning of `*.pyc` / `*.pyo` files on Python 3.3.
- \* Distribute #299: The `develop` command didn't work on Python 3, when using 2to3, as the egg link would go to the Python 2 source. Linking to the 2to3'd code in `build/lib` makes it work, although you will have to rebuild the module before testing it.
- \* Distribute #306: Even if 2to3 is used, we build in-place under Python 2.
- \* Distribute #307: Prints the full path when `.svn/entries` is broken.
- \* Distribute #313: Support for `sdist` subcommands (Python 2.7)
- \* Distribute #314: `test_local_index()` would fail an OS X.
- \* Distribute #310: Non-ascii characters in a namespace `__init__.py` causes errors.
- \* Distribute #218: Improved documentation on behavior of `package_data` and `include_package_data`. Files indicated by `package_data` are now included in the manifest.
- \* `distribute_setup.py` now allows a `--download-base` argument for retrieving distribute from a specified location.

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0.6.28

- \* Distribute #294: setup.py can now be invoked from any directory.
- \* Scripts are now installed honoring the umask.
- \* Added support for .dist-info directories.
- \* Distribute #283: Fix and disable scanning of `\*.pyc` / `\*.pyo` files on Python 3.3.

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0.6.27

- \* Support current snapshots of CPython 3.3.
- \* Distribute now recognizes README.rst as a standard, default readme file.
- \* Exclude 'encodings' modules when removing modules from sys.modules. Workaround for #285.
- \* Distribute #231: Don't fiddle with system python when used with buildout (bootstrap.py)

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0.6.26

- \* Distribute #183: Symlinked files are now extracted from source distributions.
- \* Distribute #227: Easy\_install fetch parameters are now passed during the installation of a source distribution; now fulfillment of setup\_requires dependencies will honor the parameters passed to easy\_install.

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0.6.25

- \* Distribute #258: Workaround a cache issue
- \* Distribute #260: distribute\_setup.py now accepts the --user parameter for Python 2.6 and later.
- \* Distribute #262: package\_index.open\_with\_auth no longer throws LookupError on Python 3.
- \* Distribute #269: AttributeError when an exception occurs reading Manifest.in on late releases of Python.
- \* Distribute #272: Prevent TypeError when namespace package names are unicode and single-install-externally-managed is used. Also fixes PIP issue 449.
- \* Distribute #273: Legacy script launchers now install with Python2/3 support.

0.6.24

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\* Distribute #249: Added options to exclude 2to3 fixers

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0.6.23

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\* Distribute #244: Fixed a test

\* Distribute #243: Fixed a test

\* Distribute #239: Fixed a test

\* Distribute #240: Fixed a test

\* Distribute #241: Fixed a test

\* Distribute #237: Fixed a test

\* Distribute #238: easy\_install now uses 64bit executable wrappers on 64bit Python

\* Distribute #208: Fixed parsed\_versions, it now honors post-releases as noted in the documentation

\* Distribute #207: Windows cli and gui wrappers pass CTRL-C to child python process

\* Distribute #227: easy\_install now passes its arguments to setup.py bdist\_egg

\* Distribute #225: Fixed a NameError on Python 2.5, 2.4

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0.6.21

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\* Distribute #225: Fixed a regression on py2.4

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0.6.20

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\* Distribute #135: Include url in warning when processing URLs in package\_index.

\* Distribute #212: Fix issue where easy\_instal fails on Python 3 on windows installer.

\* Distribute #213: Fix typo in documentation.

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0.6.19

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\* Distribute #206: AttributeError: 'HTTPMessage' object has no attribute 'getheaders'

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0.6.18

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\* Distribute #210: Fixed a regression introduced by Distribute #204 fix.

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## 0.6.17

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- \* Support 'DISTRIBUTE\_DISABLE\_VERSIONED\_EASY\_INSTALL\_SCRIPT' environment variable to allow to disable installation of easy\_install- $\{version\}$  script.
- \* Support Python  $\geq 3.1.4$  and  $\geq 3.2.1$ .
- \* Distribute #204: Don't try to import the parent of a namespace package in `declare_namespace`
- \* Distribute #196: Tolerate responses with multiple Content-Length headers
- \* Distribute #205: Sandboxing doesn't preserve `working_set`. Leads to `setup_requires` problems.

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## 0.6.16

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- \* Builds `sdist` `gztar` even on Windows (avoiding Distribute #193).
- \* Distribute #192: Fixed metadata omitted on Windows when `package_dir` specified with forward-slash.
- \* Distribute #195: Cython build support.
- \* Distribute #200: Issues with recognizing 64-bit packages on Windows.

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## 0.6.15

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- \* Fixed typo in `bdist_egg`
- \* Several issues under Python 3 has been solved.
- \* Distribute #146: Fixed missing DLL files after `easy_install` of windows exe package.

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## 0.6.14

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- \* Distribute #170: Fixed `unittest` failure. Thanks to Toshio.
- \* Distribute #171: Fixed race condition in `unittests` cause deadlocks in test suite.
- \* Distribute #143: Fixed a lookup issue with `easy_install`.  
Thanks to David and Zooko.
- \* Distribute #174: Fixed the edit mode when its used with `setuptools` itself

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## 0.6.13

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- \* Distribute #160: 2.7 gives `ValueError("Invalid IPv6 URL")`
- \* Distribute #150: Fixed using `~/local` even in a `--no-site-packages` `virtualenv`
- \* Distribute #163: scan index links before external links, and don't use the `md5` when comparing two distributions

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0.6.12

- \* Distribute #149: Fixed various failures on 2.3/2.4

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0.6.11

- \* Found another case of SandboxViolation - fixed
- \* Distribute #15 and Distribute #48: Introduced a socket timeout of 15 seconds on url openings
- \* Added indexsidebar.html into MANIFEST.in
- \* Distribute #108: Fixed TypeError with Python3.1
- \* Distribute #121: Fixed --help install command trying to actually install.
- \* Distribute #112: Added an os.makedirs so that Tarek's solution will work.
- \* Distribute #133: Added --no-find-links to easy\_install
- \* Added easy\_install --user
- \* Distribute #100: Fixed develop --user not taking '.' in PYTHONPATH into account
- \* Distribute #134: removed spurious UserWarnings. Patch by VanLindberg
- \* Distribute #138: cant\_write\_to\_target error when setup\_requires is used.
- \* Distribute #147: respect the sys.dont\_write\_bytecode flag

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0.6.10

- \* Reverted change made for the DistributionNotFound exception because  
zc.buildout uses the exception message to get the name of the  
distribution.

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0.6.9

- \* Distribute #90: unknown setuptools version can be added in the working set
- \* Distribute #87: setup.py doesn't try to convert distribute\_setup.py anymore  
Initial Patch by arfrever.
- \* Distribute #89: added a side bar with a download link to the doc.
- \* Distribute #86: fixed missing sentence in pkg\_resources doc.
- \* Added a nicer error message when a DistributionNotFound is raised.
- \* Distribute #80: test\_develop now works with Python 3.1
- \* Distribute #93: upload\_docs now works if there is an empty sub-directory.
- \* Distribute #70: exec bit on non-exec files
- \* Distribute #99: now the standalone easy\_install command doesn't uses a  
"setup.cfg" if any exists in the working directory. It will use it  
only if triggered by ``install\_requires`` from a setup.py call

(install, develop, etc).

- \* Distribute #101: Allowing ``os.devnull`` in Sandbox
- \* Distribute #92: Fixed the "no eggs" found error with MacPort (platform.mac\_ver() fails)
- \* Distribute #103: test\_get\_script\_header\_jython\_workaround not run anymore under py3 with C or POSIX local. Contributed by Arfrever.
- \* Distribute #104: removed the assertion when the installation fails, with a nicer message for the end user.
- \* Distribute #100: making sure there's no SandboxViolation when the setup script patches setuptools.

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0.6.8

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- \* Added "check\_packages" in dist. (added in Setuptools 0.6c11)
- \* Fixed the DONT\_PATCH\_SETUPTOOLS state.

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0.6.7

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- \* Distribute #58: Added --user support to the develop command
- \* Distribute #11: Generated scripts now wrap their call to the script entry point in the standard "if name == 'main'"
- \* Added the 'DONT\_PATCH\_SETUPTOOLS' environment variable, so virtualenv can drive an installation that doesn't patch a global setuptools.
- \* Reviewed unladen-swallow specific change from <http://code.google.com/p/unladen-swallow/source/detail?spec=svn875&r=719> and determined that it no longer applies. Distribute should work fine with Unladen Swallow 2009Q3.
- \* Distribute #21: Allow PackageIndex.open\_url to gracefully handle all cases of a httplib.HTTPException instead of just InvalidURL and BadStatusLine.
- \* Removed virtual-python.py from this distribution and updated documentation to point to the actively maintained virtualenv instead.
- \* Distribute #64: use\_setuptools no longer rebuilds the distribute egg every time it is run
- \* use\_setuptools now properly respects the requested version
- \* use\_setuptools will no longer try to import a distribute egg for the wrong Python version
- \* Distribute #74: no\_fake should be True by default.
- \* Distribute #72: avoid a bootstrapping issue with easy\_install -U

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0.6.6

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- \* Unified the bootstrap file so it works on both py2.x and py3k without 2to3

(patch by Holger Krekel)

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0.6.5

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- \* Distribute #65: cli.exe and gui.exe are now generated at build time, depending on the platform in use.
- \* Distribute #67: Fixed doc typo (PEP 381/382)
- \* Distribute no longer shadows setuptools if we require a 0.7-series setuptools. And an error is raised when installing a 0.7 setuptools with distribute.
- \* When run from within buildout, no attempt is made to modify an existing setuptools egg, whether in a shared egg directory or a system setuptools.
- \* Fixed a hole in sandboxing allowing builtin file to write outside of the sandbox.

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0.6.4

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- \* Added the generation of `distribute\_setup\_3k.py` during the release. This closes Distribute #52.
- \* Added an upload\_docs command to easily upload project documentation to PyPI's <https://pythonhosted.org>. This close issue Distribute #56.
- \* Fixed a bootstrap bug on the use\_setuptools() API.

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0.6.3

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setuptools

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- \* Fixed a bunch of calls to file() that caused crashes on Python 3.

bootstrapping

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- \* Fixed a bug in sorting that caused bootstrap to fail on Python 3.

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0.6.2

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setuptools

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- \* Added Python 3 support; see docs/python3.txt.  
This closes Old Setuptools #39.
- \* Added option to run 2to3 automatically when installing on Python 3.  
This closes issue Distribute #31.
- \* Fixed invalid usage of requirement.parse, that broke develop -d.  
This closes Old Setuptools #44.
- \* Fixed script launcher for 64-bit Windows.  
This closes Old Setuptools #2.
- \* KeyError when compiling extensions.  
This closes Old Setuptools #41.

bootstrapping

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- \* Fixed bootstrap not working on Windows. This closes issue Distribute #49.
- \* Fixed 2.6 dependencies. This closes issue Distribute #50.
- \* Make sure setuptools is patched when running through easy\_install  
This closes Old Setuptools #40.

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0.6.1

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setuptools

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- \* package\_index.urlopen now catches BadStatusLine and malformed url errors.  
This closes Distribute #16 and Distribute #18.
- \* zip\_ok is now False by default. This closes Old Setuptools #33.
- \* Fixed invalid URL error catching. Old Setuptools #20.
- \* Fixed invalid bootstrapping with easy\_install installation (Distribute #40).  
Thanks to Florian Schulze for the help.

\* Removed buildout/bootstrap.py. A new repository will create a specific bootstrap.py script.

#### bootstrapping

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\* The bootstrap process leave setuptools alone if detected in the system and --root or --prefix is provided, but is not in the same location. This closes Distribute #10.

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0.6

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#### setuptools

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\* Packages required at build time where not fully present at install time.

This closes Distribute #12.

\* Protected against failures in tarfile extraction. This closes Distribute #10.

\* Made Jython api\_tests.txt doctest compatible. This closes Distribute #7.

\* sandbox.py replaced builtin type file with builtin function open. This closes Distribute #6.

\* Immediately close all file handles. This closes Distribute #3.

\* Added compatibility with Subversion 1.6. This references Distribute #1.

#### pkg\_resources

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\* Avoid a call to /usr/bin/sw\_vers on OSX and use the official platform API instead. Based on a patch from ronaldoussoren. This closes issue #5.

\* Fixed a SandboxViolation for mkdir that could occur in certain cases.

This closes Distribute #13.

\* Allow to find\_on\_path on systems with tight permissions to fail gracefully.

This closes Distribute #9.

\* Corrected inconsistency between documentation and code of add\_entry.

This closes Distribute #8.

\* Immediately close all file handles. This closes Distribute #3.

easy\_install

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\* Immediately close all file handles. This closes Distribute #3.

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0.6c9

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\* Fixed a missing files problem when using Windows source distributions on non-Windows platforms, due to distutils not handling manifest file line endings correctly.

\* Updated Pyrex support to work with Pyrex 0.9.6 and higher.

\* Minor changes for Jython compatibility, including skipping tests that can't work on Jython.

\* Fixed not installing eggs in ``install\_requires`` if they were also used for ``setup\_requires`` or ``tests\_require``.

\* Fixed not fetching eggs in ``install\_requires`` when running tests.

\* Allow ``ez\_setup.use\_setuptools()`` to upgrade existing setuptools installations when called from a standalone ``setup.py``.

\* Added a warning if a namespace package is declared, but its parent package is not also declared as a namespace.

\* Support Subversion 1.5

\* Removed use of deprecated ``md5`` module if ``hashlib`` is available

\* Fixed ``bdist\_wininst upload`` trying to upload the ``.exe`` twice

\* Fixed ``bdist\_egg`` putting a ``native\_libs.txt`` in the source package's ``.egg-info``, when it should only be in the built egg's ``EGG-INFO``.

\* Ensure that `_full_name` is set on all shared libs before extensions are checked for shared lib usage. (Fixes a bug in the experimental shared library build support.)

\* Fix to allow unpacked eggs containing native libraries to fail more gracefully under Google App Engine (with an ``ImportError`` loading the C-based module, instead of getting a ``NameError``).

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0.6c7

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- \* Fixed `distutils.filelist.findall()` crashing on broken symlinks, and `egg_info` command failing on new, uncommitted SVN directories.
- \* Fix import problems with nested namespace packages installed via `--root` or `--single-version-externally-managed`, due to the parent package not having the child package as an attribute.

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0.6c6

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- \* Added `--egg-path` option to `develop` command, allowing you to force `.egg-link` files to use relative paths (allowing them to be shared across platforms on a networked drive).
- \* Fix not building binary RPMs correctly.
- \* Fix "eggsecutables" (such as `setuptools`' own `egg`) only being runnable with `bash-compatible` shells.
- \* Fix `#!` parsing problems in Windows `.exe` script wrappers, when there was whitespace inside a quoted argument or at the end of the `#!` line (a regression introduced in 0.6c4).
- \* Fix `test` command possibly failing if an older version of the project being tested was installed on `sys.path` ahead of the test source directory.
- \* Fix `find_packages()` treating `ez_setup` and directories with `.` in their names as packages.

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0.6c5

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- \* Fix uploaded `bdist_rpm` packages being described as `bdist_egg` packages under Python versions less than 2.5.
- \* Fix uploaded `bdist_wininst` packages being described as suitable for "any" version by Python 2.5, even if a `--target-version` was specified.

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0.6c4

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- \* Overhauled Windows script wrapping to support `bdist_wininst` better. Scripts installed with `bdist_wininst` will always use `#!python.exe` or `#!pythonw.exe` as the executable name (even when built on non-Windows platforms!), and the wrappers will look for the executable in the script's parent directory (which should find the right version of Python).
- \* Fix `upload` command not uploading files built by `bdist_rpm` or `bdist_wininst` under Python 2.3 and 2.4.
- \* Add support for "eggsecutable" headers: a `#!/bin/sh` script that is prepended to an `.egg` file to allow it to be run as a script on Unix-ish platforms. (This is mainly so that `setuptools` itself can have a single-file installer on Unix, without doing multiple downloads, dealing with firewalls, etc.)
- \* Fix problem with empty revision numbers in Subversion 1.4 `entries` files
- \* Use cross-platform relative paths in `easy-install.pth` when doing `develop` and the source directory is a subdirectory of the installation target directory.
- \* Fix a problem installing eggs with a system packaging tool if the project contained an implicit namespace package; for example if the `setup()` listed a namespace package `foo.bar` without explicitly listing `foo` as a namespace package.

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0.6c3  
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- \* Fixed breakages caused by Subversion 1.4's new "working copy" format

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0.6c2  
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- \* The `ez_setup` module displays the conflicting version of `setuptools` (and its installation location) when a script requests a version that's not available.

- \* Running `setup.py develop` on a `setuptools`-using project will now install `setuptools` if needed, instead of only downloading the egg.

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0.6c1  
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- \* Fixed `AttributeError` when trying to download a `setup_requires`

dependency when a distribution lacks a ``dependency\_links`` setting.

- \* Made ``zip-safe`` and ``not-zip-safe`` flag files contain a single byte, so as to play better with packaging tools that complain about zero-length files.
- \* Made ``setup.py develop`` respect the ``--no-deps`` option, which it previously was ignoring.
- \* Support ``extra\_path`` option to ``setup()`` when ``install`` is run in backward-compatibility mode.
- \* Source distributions now always include a ``setup.cfg`` file that explicitly sets ``egg\_info`` options such that they produce an identical version number to the source distribution's version number. (Previously, the default version number could be different due to the use of ``--tag-date``, or if the version was overridden on the command line that built the source distribution.)

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0.6b4

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- \* Fix ``register`` not obeying name/version set by ``egg\_info`` command, if ``egg\_info`` wasn't explicitly run first on the same command line.
- \* Added ``--no-date`` and ``--no-svn-revision`` options to ``egg\_info`` command, to allow suppressing tags configured in ``setup.cfg``.
- \* Fixed redundant warnings about missing ``README`` file(s); it should now appear only if you are actually a source distribution.

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0.6b3

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- \* Fix ``bdist\_egg`` not including files in subdirectories of ``.egg-info``.
- \* Allow ``.py`` files found by the ``include\_package\_data`` option to be automatically included. Remove duplicate data file matches if both ``include\_package\_data`` and ``package\_data`` are used to refer to the same files.

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0.6b1

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- \* Strip ``module`` from the end of compiled extension modules when computing

the name of a ``.py`` loader/wrapper. (Python's import machinery ignores this suffix when searching for an extension module.)

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0.6a11

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- \* Added ``test\_loader`` keyword to support custom test loaders
- \* Added ``setuptools.file\_finders`` entry point group to allow implementing revision control plugins.
- \* Added ``--identity`` option to ``upload`` command.
- \* Added ``dependency\_links`` to allow specifying URLs for ``--find-links``.
- \* Enhanced test loader to scan packages as well as modules, and call ``additional\_tests()`` if present to get non-unittest tests.
- \* Support namespace packages in conjunction with system packagers, by omitting the installation of any ``\_\_init\_\_.py`` files for namespace packages, and adding a special ``.pth`` file to create a working package in ``sys.modules``.
- \* Made ``--single-version-externally-managed`` automatic when ``--root`` is used, so that most system packagers won't require special support for setuptools.
- \* Fixed ``setup\_requires``, ``tests\_require``, etc. not using ``setup.cfg`` or other configuration files for their option defaults when installing, and also made the install use ``--multi-version`` mode so that the project directory doesn't need to support .pth files.
- \* ``MANIFEST.in`` is now forcibly closed when any errors occur while reading it. Previously, the file could be left open and the actual error would be masked by problems trying to remove the open file on Windows systems.

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0.6a10

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- \* Fixed the ``develop`` command ignoring ``--find-links``.

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0.6a9

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- \* The ``sdist`` command no longer uses the traditional ``MANIFEST`` file to

create source distributions. ``MANIFEST.in`` is still read and processed, as are the standard defaults and pruning. But the manifest is built inside the project's ``.egg-info`` directory as ``SOURCES.txt``, and it is rebuilt every time the ``egg\_info`` command is run.

- \* Added the ``include\_package\_data`` keyword to ``setup()`, allowing you to automatically include any package data listed in revision control or ``MANIFEST.in``
- \* Added the ``exclude\_package\_data`` keyword to ``setup()`, allowing you to trim back files included via the ``package\_data`` and ``include\_package\_data`` options.
- \* Fixed ``--tag-svn-revision`` not working when run from a source distribution.
- \* Added warning for namespace packages with missing ``declare\_namespace()``
- \* Added ``tests\_require`` keyword to ``setup()`, so that e.g. packages requiring ``nose`` to run unit tests can make this dependency optional unless the ``test`` command is run.
- \* Made all commands that use ``easy\_install`` respect its configuration options, as this was causing some problems with ``setup.py install``.
- \* Added an ``unpack\_directory()`` driver to ``setuptools.archive\_util``, so that you can process a directory tree through a processing filter as if it were a zipfile or tarfile.
- \* Added an internal ``install\_egg\_info`` command to use as part of old-style ``install`` operations, that installs an ``.egg-info`` directory with the package.
- \* Added a ``--single-version-externally-managed`` option to the ``install`` command so that you can more easily wrap a "flat" egg in a system package.
- \* Enhanced ``bdist\_rpm`` so that it installs single-version eggs that don't rely on a ``.pth`` file. The ``--no-egg`` option has been removed, since all RPMs are now built in a more backwards-compatible format.
- \* Support full roundtrip translation of eggs to and from ``bdist\_wininst`` format. Running ``bdist\_wininst`` on a setuptools-based package wraps the egg in an .exe that will safely install it as an egg (i.e., with metadata and entry-point wrapper scripts), and ``easy\_install`` can turn the .exe back into an ``.egg`` file or directory and install it as such.

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0.6a8

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- \* Fixed some problems building extensions when Pyrex was installed, especially with Python 2.4 and/or packages using SWIG.
- \* Made `develop` command accept all the same options as `easy_install`, and use the `easy_install` command's configuration settings as defaults.
- \* Made `egg_info --tag-svn-revision` fall back to extracting the revision number from `PKG-INFO` in case it is being run on a source distribution of a snapshot taken from a Subversion-based project.
- \* Automatically detect `.dll`, `.so` and `.dylib` files that are being installed as data, adding them to `native_libs.txt` automatically.
- \* Fixed some problems with fresh checkouts of projects that don't include `.egg-info/PKG-INFO` under revision control and put the project's source code directly in the project directory. If such a package had any requirements that get processed before the `egg_info` command can be run, the setup scripts would fail with a "Missing 'Version:' header and/or PKG-INFO file" error, because the egg runtime interpreted the unbuilt metadata in a directory on `sys.path` (i.e. the current directory) as being a corrupted egg. Setuptools now monkeypatches the distribution metadata cache to pretend that the egg has valid version information, until it has a chance to make it actually be so (via the `egg_info` command).

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0.6a5

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- \* Fixed missing gui/cli .exe files in distribution. Fixed bugs in tests.

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0.6a3

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- \* Added `gui_scripts` entry point group to allow installing GUI scripts on Windows and other platforms. (The special handling is only for Windows; other platforms are treated the same as for `console_scripts`.)

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0.6a2

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- \* Added `console_scripts` entry point group to allow installing scripts without the need to create separate script files. On Windows, console scripts get an `.exe` wrapper so you can just type their name. On other

platforms, the scripts are written without a file extension.

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0.6a1  
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- \* Added support for building "old-style" RPMs that don't install an egg for the target package, using a `--no-egg` option.
- \* The `build_ext` command now works better when using the `--inplace` option and multiple Python versions. It now makes sure that all extensions match the current Python version, even if newer copies were built for a different Python version.
- \* The `upload` command no longer attaches an extra `.zip` when uploading eggs, as PyPI now supports egg uploads without trickery.
- \* The `ez_setup` script/module now displays a warning before downloading the setuptools egg, and attempts to check the downloaded egg against an internal MD5 checksum table.
- \* Fixed the `--tag-svn-revision` option of `egg_info` not finding the latest revision number; it was using the revision number of the directory containing `setup.py`, not the highest revision number in the project.
- \* Added `eager_resources` setup argument
- \* The `sdist` command now recognizes Subversion "deleted file" entries and does not include them in source distributions.
- \* `setuptools` now embeds itself more thoroughly into the distutils, so that other distutils extensions (e.g. `py2exe`, `py2app`) will subclass setuptools' versions of things, rather than the native distutils ones.
- \* Added `entry_points` and `setup_requires` arguments to `setup()`; `setup_requires` allows you to automatically find and download packages that are needed in order to *build* your project (as opposed to running it).
- \* `setuptools` now finds its commands, `setup()` argument validators, and metadata writers using entry points, so that they can be extended by third-party packages. See `Creating distutils Extensions` <http://pythonhosted.org/setuptools/setuptools.html#creating-distutils-extensions> for more details.
- \* The vestigial `depends` command has been removed. It was never finished or documented, and never would have worked without EasyInstall - which it pre-dated and was never compatible with.

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0.5a12

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- \* The zip-safety scanner now checks for modules that might be used with `python -m`, and marks them as unsafe for zipping, since Python 2.4 can't handle `-m` on zipped modules.

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0.5a11

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- \* Fix breakage of the "develop" command that was caused by the addition of `--always-unzip` to the `easy_install` command.

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0.5a9

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- \* Include `svn:externals` directories in source distributions as well as normal subversion-controlled files and directories.
- \* Added `exclude=patternlist` option to `setuptools.find_packages()`
- \* Changed `--tag-svn-revision` to include an "r" in front of the revision number for better readability.
- \* Added ability to build eggs without including source files (except for any scripts, of course), using the `--exclude-source-files` option to `bdist_egg`.
- \* `setup.py install` now automatically detects when an "unmanaged" package or module is going to be on `sys.path` ahead of a package being installed, thereby preventing the newer version from being imported. If this occurs, a warning message is output to `sys.stderr`, but installation proceeds anyway. The warning message informs the user what files or directories need deleting, and advises them they can also use EasyInstall (with the `--delete-conflicting` option) to do it automatically.
- \* The `egg_info` command now adds a `top_level.txt` file to the metadata directory that lists all top-level modules and packages in the distribution. This is used by the `easy_install` command to find possibly-conflicting "unmanaged" packages when installing the distribution.
- \* Added `zip_safe` and `namespace_packages` arguments to `setup()`. Added package analysis to determine zip-safety if the `zip_safe` flag is not given, and advise the author regarding what code might need changing.

\* Fixed the swapped ``-d`` and ``-b`` options of ``bdist\_egg``.

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0.5a8

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\* The "egg\_info" command now always sets the distribution metadata to "safe" forms of the distribution name and version, so that distribution files will be generated with parseable names (i.e., ones that don't include '-' in the name or version). Also, this means that if you use the various ``--tag`` options of "egg\_info", any distributions generated will use the tags in the version, not just egg distributions.

\* Added support for defining command aliases in distutils configuration files, under the "[aliases]" section. To prevent recursion and to allow aliases to call the command of the same name, a given alias can be expanded only once per command-line invocation. You can define new aliases with the "alias" command, either for the local, global, or per-user configuration.

\* Added "rotate" command to delete old distribution files, given a set of patterns to match and the number of files to keep. (Keeps the most recently-modified distribution files matching each pattern.)

\* Added "saveopts" command that saves all command-line options for the current invocation to the local, global, or per-user configuration file. Useful for setting defaults without having to hand-edit a configuration file.

\* Added a "setopt" command that sets a single option in a specified distutils configuration file.

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0.5a7

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\* Added "upload" support for egg and source distributions, including a bug fix for "upload" and a temporary workaround for lack of .egg support in PyPI.

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0.5a6

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\* Beefed up the "sdist" command so that if you don't have a MANIFEST.in, it will include all files under revision control (CVS or Subversion) in the current directory, and it will regenerate the list every time you create a source distribution, not just when you tell it to. This should make the default "do what you mean" more often than the distutils' default behavior did, while still retaining the old behavior in the presence of MANIFEST.in.

\* Fixed the "develop" command always updating .pth files, even if you specified ``-n`` or ``--dry-run``.

\* Slightly changed the format of the generated version when you use ``--tag-build`` on the "egg\_info" command, so that you can make tagged revisions compare \*lower\* than the version specified in setup.py (e.g. by using ``--tag-build=dev``).

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0.5a5

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\* Added ``develop`` command to ``setuptools``-based packages. This command installs an ``.egg-link`` pointing to the package's source directory, and script wrappers that ``execfile()`` the source versions of the package's scripts. This lets you put your development checkout(s) on sys.path without having to actually install them. (To uninstall the link, use ``setup.py develop --uninstall``.)

\* Added ``egg\_info`` command to ``setuptools``-based packages. This command just creates or updates the "projectname.egg-info" directory, without building an egg. (It's used by the ``bdist\_egg``, ``test``, and ``develop`` commands.)

\* Enhanced the ``test`` command so that it doesn't install the package, but instead builds any C extensions in-place, updates the ``.egg-info`` metadata, adds the source directory to ``sys.path``, and runs the tests directly on the source. This avoids an "unmanaged" installation of the package to ``site-packages`` or elsewhere.

\* Made ``easy\_install`` a standard ``setuptools`` command, moving it from the ``easy\_install`` module to ``setuptools.command.easy\_install``. Note that if you were importing or extending it, you must now change your imports accordingly. ``easy\_install.py`` is still installed as a script, but not as a module.

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0.5a4

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\* Setup scripts using setuptools can now list their dependencies directly in the setup.py file, without having to manually create a ``depends.txt`` file. The ``install\_requires`` and ``extras\_require`` arguments to ``setup()`` are used to create a dependencies file automatically. If you are manually creating ``depends.txt`` right now, please switch to using these setup arguments as soon as practical, because ``depends.txt`` support will be removed in the 0.6 release cycle. For documentation on the new arguments,

see the `setuptools.dist.Distribution` class.

- \* Setup scripts using setuptools now always install using `easy_install` internally, for ease of uninstallation and upgrading.

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0.5a1

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- \* Added support for "self-installation" bootstrapping. Packages can now include `ez_setup.py` in their source distribution, and add the following to their `setup.py`, in order to automatically bootstrap installation of setuptools as part of their setup process::

```
from ez_setup import use_setuptools
use_setuptools()
```

```
from setuptools import setup
# etc...
```

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0.4a2

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- \* Added `ez_setup.py` installer/bootstrap script to make initial setuptools installation easier, and to allow distributions using setuptools to avoid having to include setuptools in their source distribution.
- \* All downloads are now managed by the `PackageIndex` class (which is now subclassable and replaceable), so that embedders can more easily override download logic, give download progress reports, etc. The class has also been moved to the new `setuptools.package_index` module.
- \* The `Installer` class no longer handles downloading, manages a temporary directory, or tracks the `zip_ok` option. Downloading is now handled by `PackageIndex`, and `Installer` has become an `easy_install` command class based on `setuptools.Command`.
- \* There is a new `setuptools.sandbox.run_setup()` API to invoke a setup script in a directory sandbox, and a new `setuptools.archive_util` module with an `unpack_archive()` API. These were split out of `EasyInstall` to allow reuse by other tools and applications.
- \* `setuptools.Command` now supports reinitializing commands using keyword arguments to set/reset options. Also, `Command` subclasses can now set their `command_consumes_arguments` attribute to `True` in order to receive an `args` option containing the rest of the command line.

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0.3a2

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\* Added new options to ``bdist\_egg`` to allow tagging the egg's version number with a subversion revision number, the current date, or an explicit tag value. Run ``setup.py bdist\_egg --help`` to get more information.

\* Misc. bug fixes

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0.3a1

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\* Initial release.

Found in path(s):

\* /opt/cola/permits/1155085362\_1618931365.18/0/setuptools-12-0-5-tar-gz/setuptools-12.0.5/CHANGES.txt

No license file was found, but licenses were detected in source scan.

License :: OSI Approved :: Zope Public License

Found in path(s):

\* /opt/cola/permits/1155085362\_1618931365.18/0/setuptools-12-0-5-tar-gz/setuptools-12.0.5/setup.py

No license file was found, but licenses were detected in source scan.

# Licensed under the Apache License, Version 2.0 (the "License");  
# you may not use this file except in compliance with the License.  
# You may obtain a copy of the License at  
# <http://www.apache.org/licenses/LICENSE-2.0>  
# distributed under the License is distributed on an "AS IS" BASIS,

Found in path(s):

\* /opt/cola/permits/1155085362\_1618931365.18/0/setuptools-12-0-5-tar-gz/setuptools-12.0.5/pkg\_resources/\_vendor/packaging/\_\_about\_\_.py

\* /opt/cola/permits/1155085362\_1618931365.18/0/setuptools-12-0-5-tar-gz/setuptools-12.0.5/pkg\_resources/\_vendor/packaging/\_\_init\_\_.py

\* /opt/cola/permits/1155085362\_1618931365.18/0/setuptools-12-0-5-tar-gz/setuptools-12.0.5/pkg\_resources/\_vendor/packaging/specifiers.py

\* /opt/cola/permits/1155085362\_1618931365.18/0/setuptools-12-0-5-tar-gz/setuptools-12.0.5/pkg\_resources/\_vendor/packaging/structures.py

\* /opt/cola/permits/1155085362\_1618931365.18/0/setuptools-12-0-5-tar-gz/setuptools-12.0.5/pkg\_resources/\_vendor/packaging/version.py

\* /opt/cola/permits/1155085362\_1618931365.18/0/setuptools-12-0-5-tar-gz/setuptools-12.0.5/pkg\_resources/\_vendor/packaging/\_compat.py

No license file was found, but licenses were detected in source scan.

=====

``Setuptools`` is a collection of enhancements to the Python ``distutils`` (for Python 2.6 and up) that allow developers to more easily build and distribute Python packages, especially ones that have dependencies on other packages.

Packages built and distributed using ``setuptools`` look to the user like ordinary Python packages based on the ``distutils``. Your users don't need to install or even know about setuptools in order to use them, and you don't have to include the entire setuptools package in your distributions. By including just a single `bootstrap module`\_ (a 12K .py file), your package will automatically download and install ``setuptools`` if the user is building your package from source and doesn't have a suitable version already installed.

.. \_bootstrap module: [https://bootstrap.pypa.io/ez\\_setup.py](https://bootstrap.pypa.io/ez_setup.py)

### Feature Highlights:

- \* Automatically find/download/install/upgrade dependencies at build time using the `EasyInstall tool`\_ <[easy\\_install.html](#)>, which supports downloading via HTTP, FTP, Subversion, and SourceForge, and automatically scans web pages linked from PyPI to find download links. (It's the closest thing to CPAN currently available for Python.)
- \* Create `Python Eggs`\_ <<http://peak.telecommunity.com/DevCenter/PythonEggs>> - a single-file importable distribution format
- \* Enhanced support for accessing data files hosted in zipped packages.
- \* Automatically include all packages in your source tree, without listing them individually in setup.py
- \* Automatically include all relevant files in your source distributions, without needing to create a ``MANIFEST.in`` file, and without having to force regeneration of the ``MANIFEST`` file when your source tree changes.
- \* Automatically generate wrapper scripts or Windows (console and GUI) .exe files for any number of "main" functions in your project. (Note: this is not a py2exe replacement; the .exe files rely on the local Python installation.)
- \* Transparent Pyrex support, so that your setup.py can list ``.pyx`` files and still work even when the end-user doesn't have Pyrex installed (as long as you include the Pyrex-generated C in your source distribution)
- \* Command aliases - create project-specific, per-user, or site-wide shortcut names for commonly used commands and options



- \* PyPI upload support - upload your source distributions and eggs to PyPI
- \* Deploy your project in "development mode", such that it's available on `sys.path`, yet can still be edited directly from its source checkout.
- \* Easily extend the distutils with new commands or `setup()` arguments, and distribute/reuse your extensions for multiple projects, without copying code.
- \* Create extensible applications and frameworks that automatically discover extensions, using simple "entry points" declared in a project's setup script.

In addition to the PyPI downloads, the development version of `setuptools` is available from the `Python SVN sandbox`, and in-development versions of the `0.6 branch` are available as well.

.. `0.6 branch`: <http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06>

.. `Python SVN sandbox`: <http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev>

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Installing `setuptools`

=====

Please follow the `EasyInstall Installation Instructions` to install the current stable version of `setuptools`. In particular, be sure to read the section on `Custom Installation Locations` if you are installing anywhere other than Python's `site-packages` directory.

.. `EasyInstall Installation Instructions`: [easy\\_install.html#installation-instructions](http://easy_install.html#installation-instructions)

.. `Custom Installation Locations`: [easy\\_install.html#custom-installation-locations](http://easy_install.html#custom-installation-locations)

If you want the current in-development version of `setuptools`, you should first install a stable version, and then run:

```
ez_setup.py setuptools==dev
```

This will download and install the latest development (i.e. unstable) version

of setuptools from the Python Subversion sandbox.

## Basic Use

=====

For basic use of setuptools, just import things from setuptools instead of the distutils. Here's a minimal setup script using setuptools::

```
from setuptools import setup, find_packages
setup(
    name = "HelloWorld",
    version = "0.1",
    packages = find_packages(),
)
```

As you can see, it doesn't take much to use setuptools in a project. Just by doing the above, this project will be able to produce eggs, upload to PyPI, and automatically include all packages in the directory where the setup.py lives. See the `Command Reference`\_ section below to see what commands you can give to this setup script.

Of course, before you release your project to PyPI, you'll want to add a bit more information to your setup script to help people find or learn about your project. And maybe your project will have grown by then to include a few dependencies, and perhaps some data files and scripts::

```
from setuptools import setup, find_packages
setup(
    name = "HelloWorld",
    version = "0.1",
    packages = find_packages(),
    scripts = ['say_hello.py'],

    # Project uses reStructuredText, so ensure that the docutils get
    # installed or upgraded on the target machine
    install_requires = ['docutils>=0.3'],

    package_data = {
        # If any package contains *.txt or *.rst files, include them:
        '': ['*.txt', '*.rst'],
        # And include any *.msg files found in the 'hello' package, too:
        'hello': ['*.msg'],
    },

    # metadata for upload to PyPI
    author = "Me",
    author_email = "me@example.com",
```

```

description = "This is an Example Package",
license = "PSF",
keywords = "hello world example examples",
url = "http://example.com/HelloWorld/", # project home page, if any

# could also include long_description, download_url, classifiers, etc.
)

```

In the sections that follow, we'll explain what most of these `setup()` arguments do (except for the metadata ones), and the various ways you might use them in your own project(s).

## Specifying Your Project's Version

-----

Setuptools can work well with most versioning schemes; there are, however, a few special things to watch out for, in order to ensure that setuptools and EasyInstall can always tell what version of your package is newer than another version. Knowing these things will also help you correctly specify what versions of other projects your project depends on.

A version consists of an alternating series of release numbers and pre-release or post-release tags. A release number is a series of digits punctuated by dots, such as `2.4` or `0.5`. Each series of digits is treated numerically, so releases `2.1` and `2.1.0` are different ways to spell the same release number, denoting the first subrelease of release 2. But `2.10` is the *tenth* subrelease of release 2, and so is a different and newer release from `2.1` or `2.1.0`. Leading zeros within a series of digits are also ignored, so `2.01` is the same as `2.1`, and different from `2.0.1`.

Following a release number, you can have either a pre-release or post-release tag. Pre-release tags make a version be considered *older* than the version they are appended to. So, revision `2.4` is *newer* than revision `2.4c1`, which in turn is newer than `2.4b1` or `2.4a1`. Postrelease tags make a version be considered *newer* than the version they are appended to. So, revisions like `2.4-1` and `2.4pl3` are newer than `2.4`, but are *older* than `2.4.1` (which has a higher release number).

A pre-release tag is a series of letters that are alphabetically before "final". Some examples of prerelease tags would include `alpha`, `beta`, `a`, `c`, `dev`, and so on. You do not have to place a dot or dash before the prerelease tag if it's immediately after a number, but it's okay to do so if you prefer. Thus, `2.4c1` and `2.4.c1` and `2.4-c1` all represent release candidate 1 of version `2.4`, and are treated as identical by setuptools.

In addition, there are three special prerelease tags that are treated as if

they were the letter ``c``: ``pre``, ``preview``, and ``rc``. So, version ``2.4rc1``, ``2.4pre1`` and ``2.4preview1`` are all the exact same version as ``2.4c1``, and are treated as identical by `setuptools`.

A post-release tag is either a series of letters that are alphabetically greater than or equal to "final", or a dash ("`-`"). Post-release tags are generally used to separate patch numbers, port numbers, build numbers, revision numbers, or date stamps from the release number. For example, the version ``2.4-r1263`` might denote Subversion revision 1263 of a post-release patch of version ``2.4``. Or you might use ``2.4-20051127`` to denote a date-stamped post-release.

Notice that after each pre or post-release tag, you are free to place another release number, followed again by more pre- or post-release tags. For example, ``0.6a9.dev-r41475`` could denote Subversion revision 41475 of the in-development version of the ninth alpha of release 0.6. Notice that ``dev`` is a pre-release tag, so this version is a *lower* version number than ``0.6a9``, which would be the actual ninth alpha of release 0.6. But the ``-r41475`` is a post-release tag, so this version is *newer* than ``0.6a9.dev``.

For the most part, `setuptools`' interpretation of version numbers is intuitive, but here are a few tips that will keep you out of trouble in the corner cases:

- \* Don't stick adjoining pre-release tags together without a dot or number between them. Version ``1.9adev`` is the ``adev`` prerelease of ``1.9``, *not* a development pre-release of ``1.9a``. Use ``.dev`` instead, as in ``1.9a.dev``, or separate the prerelease tags with a number, as in ``1.9a0dev``. ``1.9a.dev``, ``1.9a0dev``, and even ``1.9.a.dev`` are identical versions from `setuptools`' point of view, so you can use whatever scheme you prefer.

- \* If you want to be certain that your chosen numbering scheme works the way you think it will, you can use the `pkg_resources.parse_version()` function to compare different version numbers::

```
>>> from pkg_resources import parse_version
>>> parse_version('1.9.a.dev') == parse_version('1.9a0dev')
True
>>> parse_version('2.1-rc2') < parse_version('2.1')
True
>>> parse_version('0.6a9dev-r41475') < parse_version('0.6a9')
True
```

Once you've decided on a version numbering scheme for your project, you can have `setuptools` automatically tag your in-development releases with various pre- or post-release tags. See the following sections for more details:

- \* ``Tagging and "Daily Build" or "Snapshot" Releases`_`

- \* `Managing "Continuous Releases" Using Subversion`\_
- \* The `egg\_info`\_ command

## New and Changed ``setup()`` Keywords

=====

The following keyword arguments to ``setup()`` are added or changed by ``setuptools``. All of them are optional; you do not have to supply them unless you need the associated ``setuptools`` feature.

### ``include\_package\_data``

If set to ``True``, this tells ``setuptools`` to automatically include any data files it finds inside your package directories, that are either under CVS or Subversion control, or which are specified by your ``MANIFEST.in`` file. For more information, see the section below on `Including Data Files`\_.

### ``exclude\_package\_data``

A dictionary mapping package names to lists of glob patterns that should be \*excluded\* from your package directories. You can use this to trim back any excess files included by ``include\_package\_data``. For a complete description and examples, see the section below on `Including Data Files`\_.

### ``package\_data``

A dictionary mapping package names to lists of glob patterns. For a complete description and examples, see the section below on `Including Data Files`\_. You do not need to use this option if you are using ``include\_package\_data``, unless you need to add e.g. files that are generated by your setup script and build process. (And are therefore not in source control or are files that you don't want to include in your source distribution.)

### ``zip\_safe``

A boolean (True or False) flag specifying whether the project can be safely installed and run from a zip file. If this argument is not supplied, the ``bdist\_egg`` command will have to analyze all of your project's contents for possible problems each time it builds an egg.

### ``install\_requires``

A string or list of strings specifying what other distributions need to be installed when this one is. See the section below on `Declaring Dependencies`\_ for details and examples of the format of this argument.

### ``entry\_points``

A dictionary mapping entry point group names to strings or lists of strings defining the entry points. Entry points are used to support dynamic discovery of services or plugins provided by a project. See `Dynamic

Discovery of Services and Plugins`\_ for details and examples of the format of this argument. In addition, this keyword is used to support `Automatic Script Creation`\_.

```extras_require```

A dictionary mapping names of "extras" (optional features of your project) to strings or lists of strings specifying what other distributions must be installed to support those features. See the section below on `Declaring Dependencies`\_ for details and examples of the format of this argument.

```setup_requires```

A string or list of strings specifying what other distributions need to be present in order for the `*setup script*` to run. ```setuptools``` will attempt to obtain these (even going so far as to download them using ```EasyInstall```) before processing the rest of the setup script or commands. This argument is needed if you are using distutils extensions as part of your build process; for example, extensions that process `setup()` arguments and turn them into EGG-INFO metadata files.

(Note: projects listed in ```setup_requires``` will NOT be automatically installed on the system where the setup script is being run. They are simply downloaded to the `./eggs` directory if they're not locally available already. If you want them to be installed, as well as being available when the setup script is run, you should add them to ```install_requires``` `**and**` ```setup_requires```.)

```dependency_links```

A list of strings naming URLs to be searched when satisfying dependencies. These links will be used if needed to install packages specified by ```setup_requires``` or ```tests_require```. They will also be written into the egg's metadata for use by tools like EasyInstall to use when installing an ```.egg``` file.

```namespace_packages```

A list of strings naming the project's "namespace packages". A namespace package is a package that may be split across multiple project distributions. For example, Zope 3's ```zope``` package is a namespace package, because subpackages like ```zope.interface``` and ```zope.publisher``` may be distributed separately. The egg runtime system can automatically merge such subpackages into a single parent package at runtime, as long as you declare them in each project that contains any subpackages of the namespace package, and as long as the namespace package's ```__init__.py``` does not contain any code other than a namespace declaration. See the section below on `Namespace Packages`\_ for more information.

```test_suite```

A string naming a ```unittest.TestCase``` subclass (or a package or module containing one or more of them, or a method of such a subclass), or naming

a function that can be called with no arguments and returns a `unittest.TestSuite`. If the named suite is a module, and the module has an `additional_tests()` function, it is called and the results are added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite.

Specifying this argument enables use of the `test_` command to run the specified test suite, e.g. via `setup.py test`. See the section on the `test_` command below for more details.

#### `tests_require`

If your project's tests need one or more additional packages besides those needed to install it, you can use this option to specify them. It should be a string or list of strings specifying what other distributions need to be present for the package's tests to run. When you run the `test` command, `setuptools` will attempt to obtain these (even going so far as to download them using `EasyInstall`). Note that these required projects will *not* be installed on the system where the tests are run, but only downloaded to the project's setup directory if they're not already installed locally.

#### `test_loader`:

#### `test_loader`

If you would like to use a different way of finding tests to run than what `setuptools` normally uses, you can specify a module name and class name in this argument. The named class must be instantiable with no arguments, and its instances must support the `loadTestsFromNames()` method as defined in the Python `unittest` module's `TestLoader` class. `Setuptools` will pass only one test "name" in the `names` argument: the value supplied for the `test_suite` argument. The loader you specify may interpret this string in any way it likes, as there are no restrictions on what may be contained in a `test_suite` string.

The module name and class name must be separated by a `:`. The default value of this argument is `setuptools.command.test:ScanningLoader`. If you want to use the default `unittest` behavior, you can specify `unittest:TestLoader` as your `test_loader` argument instead. This will prevent automatic scanning of submodules and subpackages.

The module and class you specify here may be contained in another package, as long as you use the `tests_require` option to ensure that the package containing the loader class is available when the `test` command is run.

#### `eager_resources`

A list of strings naming resources that should be extracted together, if any of them is needed, or if any C extensions included in the project are imported. This argument is only useful if the project will be installed as

a zipfile, and there is a need to have all of the listed resources be extracted to the filesystem \*as a unit\*. Resources listed here should be '/'-separated paths, relative to the source root, so to list a resource `foo.png` in package `bar.baz`, you would include the string `bar/baz/foo.png` in this argument.

If you only need to obtain resources one at a time, or you don't have any C extensions that access other files in the project (such as data files or shared libraries), you probably do NOT need this argument and shouldn't mess with it. For more details on how this argument works, see the section below on `Automatic Resource Extraction`.

`use_2to3`

Convert the source code from Python 2 to Python 3 with 2to3 during the build process. See `:doc:python3` for more details.

`convert_2to3_doctests`

List of doctest source files that need to be converted with 2to3. See `:doc:python3` for more details.

`use_2to3_fixers`

A list of modules to search for additional fixers to be used during the 2to3 conversion. See `:doc:python3` for more details.

Using `find_packages()`

-----

For simple projects, it's usually easy enough to manually add packages to the `packages` argument of `setup()`. However, for very large projects (Twisted, PEAK, Zope, Chandler, etc.), it can be a big burden to keep the package list updated. That's what `setuptools.find_packages()` is for.

`find_packages()` takes a source directory and two lists of package name patterns to exclude and include. If omitted, the source directory defaults to the same directory as the setup script. Some projects use a `src` or `lib` directory as the root of their source tree, and those projects would of course use `"src"` or `"lib"` as the first argument to `find_packages()`. (And such projects also need something like `package_dir = {'src'}` in their `setup()` arguments, but that's just a normal distutils thing.)

Anyway, `find_packages()` walks the target directory, filtering by inclusion patterns, and finds Python packages (any directory). On Python 3.2 and earlier, packages are only recognized if they include an `__init__.py` file. Finally, exclusion patterns are applied to remove matching packages.

Inclusion and exclusion patterns are package names, optionally including



wildcards. For

example, `find_packages(exclude=["*.tests"])` will exclude all packages whose last name part is `tests`. Or, `find_packages(exclude=["*.tests", "*.tests.*"])` will also exclude any subpackages of packages named `tests`, but it still won't exclude a top-level `tests` package or the children thereof. In fact, if you really want no `tests` packages at all, you'll need something like this::

```
find_packages(exclude=["*.tests", "*.tests.*", "tests.*", "tests"])
```

in order to cover all the bases. Really, the exclusion patterns are intended to cover simpler use cases than this, like excluding a single, specified package and its subpackages.

Regardless of the parameters, the `find_packages()` function returns a list of package names suitable for use as the `packages` argument to `setup()`, and so is usually the easiest way to set that argument in your setup script. Especially since it frees you from having to remember to modify your setup script whenever your project grows additional top-level packages or subpackages.

#### Automatic Script Creation

=====

Packaging and installing scripts can be a bit awkward with the distutils. For one thing, there's no easy way to have a script's filename match local conventions on both Windows and POSIX platforms. For another, you often have to create a separate file just for the "main" script, when your actual "main" is a function in a module somewhere. And even in Python 2.4, using the `-m` option only works for actual `.py` files that aren't installed in a package.

`setuptools` fixes all of these problems by automatically generating scripts for you with the correct extension, and on Windows it will even create an `.exe` file so that users don't have to change their `PATHEXT` settings. The way to use this feature is to define "entry points" in your setup script that indicate what function the generated script should import and run. For example, to create two console scripts called `foo` and `bar`, and a GUI script called `baz`, you might do something like this::

```
setup(
    # other arguments here...
    entry_points={
        'console_scripts': [
            'foo = my_package.some_module:main_func',
            'bar = other_module:some_func',
        ],
        'gui_scripts': [
```

```

        'baz = my_package_gui:start_func',
    ]
}
)

```

When this project is installed on non-Windows platforms (using "setup.py install", "setup.py develop", or by using EasyInstall), a set of ``foo``, ``bar``, and ``baz`` scripts will be installed that import ``main\_func`` and ``some\_func`` from the specified modules. The functions you specify are called with no arguments, and their return value is passed to ``sys.exit()``, so you can return an errorlevel or message to print to stderr.

On Windows, a set of ``foo.exe``, ``bar.exe``, and ``baz.exe`` launchers are created, alongside a set of ``foo.py``, ``bar.py``, and ``baz.pyw`` files. The ``.exe`` wrappers find and execute the right version of Python to run the ``.py`` or ``.pyw`` file.

You may define as many "console script" and "gui script" entry points as you like, and each one can optionally specify "extras" that it depends on, that will be added to ``sys.path`` when the script is run. For more information on "extras", see the section below on `Declaring Extras`\_. For more information on "entry points" in general, see the section below on `Dynamic Discovery of Services and Plugins`\_.

#### "Eggsecutable" Scripts

-----

Occasionally, there are situations where it's desirable to make an ``.egg`` file directly executable. You can do this by including an entry point such as the following::

```

setup(
    # other arguments here...
    entry_points = {
        'setuptools.installation': [
            'eggsecutable = my_package.some_module:main_func',
        ]
    }
)

```

Any eggs built from the above setup script will include a short executable prelude that imports and calls ``main\_func()`` from ``my\_package.some\_module``. The prelude can be run on Unix-like platforms (including Mac and Linux) by invoking the egg with ``/bin/sh``, or by enabling execute permissions on the ``.egg`` file. For the executable prelude to run, the appropriate version of Python must be available via the ``PATH`` environment variable, under its "long" name. That is, if the egg is built for Python 2.3, there must be a

`python2.3` executable present in a directory on `PATH`.

This feature is primarily intended to support `ez_setup` the installation of `setuptools` itself on non-Windows platforms, but may also be useful for other projects as well.

IMPORTANT NOTE: Eggs with an "eggsecutable" header cannot be renamed, or invoked via symlinks. They *must* be invoked using their original filename, in order to ensure that, once running, `pkg_resources` will know what project and version is in use. The header script will check this and exit with an error if the `.egg` file has been renamed or is invoked via a symlink that changes its base name.

### Declaring Dependencies

=====

`setuptools` supports automatically installing dependencies when a package is installed, and including information about dependencies in Python Eggs (so that package management tools like `EasyInstall` can use the information).

`setuptools` and `pkg_resources` use a common syntax for specifying a project's required dependencies. This syntax consists of a project's PyPI name, optionally followed by a comma-separated list of "extras" in square brackets, optionally followed by a comma-separated list of version specifiers. A version specifier is one of the operators `<`, `>`, `<=`, `>=`, `==` or `!=`, followed by a version identifier. Tokens may be separated by whitespace, but any whitespace or nonstandard characters within a project name or version identifier must be replaced with `-`.

Version specifiers for a given project are internally sorted into ascending version order, and used to establish what ranges of versions are acceptable. Adjacent redundant conditions are also consolidated (e.g. `>1, >2` becomes `>1`, and `<2, <3` becomes `<3`). `!=` versions are excised from the ranges they fall within. A project's version is then checked for membership in the resulting ranges. (Note that providing conflicting conditions for the same version (e.g. `<2, >=2` or `==2, !=2`) is meaningless and may therefore produce bizarre results.)

Here are some example requirement specifiers::

```
docutils >= 0.3
```

```
# comment lines and \ continuations are allowed in requirement strings
BazSpam ==1.1, ==1.2, ==1.3, ==1.4, ==1.5, \
    ==1.6, ==1.7 # and so are line-end comments
```

```
PEAK[FastCGI, reST]>=0.5a4
```

setuptools==0.5a7

The simplest way to include requirement specifiers is to use the `install_requires` argument to `setup()`. It takes a string or list of strings containing requirement specifiers. If you include more than one requirement in a string, each requirement must begin on a new line.

This has three effects:

1. When your project is installed, either by using EasyInstall, `setup.py install`, or `setup.py develop`, all of the dependencies not already installed will be located (via PyPI), downloaded, built (if necessary), and installed.
2. Any scripts in your project will be installed with wrappers that verify the availability of the specified dependencies at runtime, and ensure that the correct versions are added to `sys.path` (e.g. if multiple versions have been installed).
3. Python Egg distributions will include a metadata file listing the dependencies.

Note, by the way, that if you declare your dependencies in `setup.py`, you do *not* need to use the `require()` function in your scripts or modules, as long as you either install the project or use `setup.py develop` to do development work on it. (See "Development Mode" below for more details on using `setup.py develop`.)

Dependencies that aren't in PyPI

-----

If your project depends on packages that aren't registered in PyPI, you may still be able to depend on them, as long as they are available for download as:

- an egg, in the standard distutils `sdist` format,
- a single `.py` file, or
- a VCS repository (Subversion, Mercurial, or Git).

You just need to add some URLs to the `dependency_links` argument to `setup()`.

The URLs must be either:

1. direct download URLs,
2. the URLs of web pages that contain direct download links, or

### 3. the repository's URL

In general, it's better to link to web pages, because it is usually less complex to update a web page than to release a new version of your project. You can also use a SourceForge `showfiles.php` link in the case where a package you depend on is distributed via SourceForge.

If you depend on a package that's distributed as a single `.py` file, you must include an `"#egg=project-version"` suffix to the URL, to give a project name and version number. (Be sure to escape any dashes in the name or version by replacing them with underscores.) EasyInstall will recognize this suffix and automatically create a trivial `setup.py` to wrap the single `.py` file as an egg.

In the case of a VCS checkout, you should also append `#egg=project-version` in order to identify for what package that checkout should be used. You can append `@REV` to the URL's path (before the fragment) to specify a revision. Additionally, you can also force the VCS being used by prepending the URL with a certain prefix. Currently available are:

- `svn+URL` for Subversion,
- `git+URL` for Git, and
- `hg+URL` for Mercurial

A more complete example would be:

```
vc+proto://host/path@revision#egg=project-version
```

Be careful with the version. It should match the one inside the project files. If you want to disregard the version, you have to omit it both in the `requires` and in the URL's fragment.

This will do a checkout (or a clone, in Git and Mercurial parlance) to a temporary folder and run `setup.py bdist_egg`.

The `dependency_links` option takes the form of a list of URL strings. For example, the below will cause EasyInstall to search the specified page for eggs or source distributions, if the package's dependencies aren't already installed::

```
setup(  
    ...  
    dependency_links = [  
        "http://peak.telecommunity.com/snapshots/"  
    ],  
)
```

.. \_Declaring Extras:

Declaring "Extras" (optional features with their own dependencies)

-----

Sometimes a project has "recommended" dependencies, that are not required for all uses of the project. For example, a project might offer optional PDF output if ReportLab is installed, and reStructuredText support if docutils is installed. These optional features are called "extras", and `setuptools` allows you to define their requirements as well. In this way, other projects that require these optional features can force the additional requirements to be installed, by naming the desired extras in their `install_requires`.

For example, let's say that Project A offers optional PDF and reST support::

```
setup(
    name="Project-A",
    ...
    extras_require = {
        'PDF': ["ReportLab>=1.2", "RXP"],
        'reST': ["docutils>=0.3"],
    }
)
```

As you can see, the `extras_require` argument takes a dictionary mapping names of "extra" features, to strings or lists of strings describing those features' requirements. These requirements will *not* be automatically installed unless another package depends on them (directly or indirectly) by including the desired "extras" in square brackets after the associated project name. (Or if the extras were listed in a requirement spec on the EasyInstall command line.)

Extras can be used by a project's `entry points` to specify dynamic dependencies. For example, if Project A includes a "rst2pdf" script, it might declare it like this, so that the "PDF" requirements are only resolved if the "rst2pdf" script is run::

```
setup(
    name="Project-A",
    ...
    entry_points = {
        'console_scripts': [
            'rst2pdf = project_a.tools.pdfgen [PDF]',
            'rst2html = project_a.tools.htmlgen',
            # more script entry points ...
        ],
    }
)
```

)

Projects can also use another project's extras when specifying dependencies. For example, if project B needs "project A" with PDF support installed, it might declare the dependency like this::

```
setup(  
    name="Project-B",  
    install_requires = ["Project-A[PDF]"],  
    ...  
)
```

This will cause ReportLab to be installed along with project A, if project B is installed -- even if project A was already installed. In this way, a project can encapsulate groups of optional "downstream dependencies" under a feature name, so that packages that depend on it don't have to know what the downstream dependencies are. If a later version of Project A builds in PDF support and no longer needs ReportLab, or if it ends up needing other dependencies besides ReportLab in order to provide PDF support, Project B's setup information does not need to change, but the right packages will still be installed if needed.

Note, by the way, that if a project ends up not needing any other packages to support a feature, it should keep an empty requirements list for that feature in its ``extras\_require`` argument, so that packages depending on that feature don't break (due to an invalid feature name). For example, if Project A above builds in PDF support and no longer needs ReportLab, it could change its setup to this::

```
setup(  
    name="Project-A",  
    ...  
    extras_require = {  
        'PDF': [],  
        'reST': ["docutils>=0.3"],  
    }  
)
```

so that Package B doesn't have to remove the ``[PDF]`` from its requirement specifier.

### Including Data Files

=====

The distutils have traditionally allowed installation of "data files", which are placed in a platform-specific location. However, the most common use case for data files distributed with a package is for use \*by\* the package, usually by including the data files in the package directory.

Setuptools offers three ways to specify data files to be included in your packages. First, you can simply use the ``include\_package\_data`` keyword, e.g.:

```
from setuptools import setup, find_packages
setup(
    ...
    include_package_data = True
)
```

This tells setuptools to install any data files it finds in your packages. The data files must be under CVS or Subversion control, or else they must be specified via the distutils' ``MANIFEST.in`` file. (They can also be tracked by another revision control system, using an appropriate plugin. See the section below on `Adding Support for Other Revision Control Systems`\_ for information on how to write such plugins.)

If the data files are not under version control, or are not in a supported version control system, or if you want finer-grained control over what files are included (for example, if you have documentation files in your package directories and want to exclude them from installation), then you can also use the ``package\_data`` keyword, e.g.:

```
from setuptools import setup, find_packages
setup(
    ...
    package_data = {
        # If any package contains *.txt or *.rst files, include them:
        '': ['*.txt', '*.rst'],
        # And include any *.msg files found in the 'hello' package, too:
        'hello': ['*.msg'],
    }
)
```

The ``package\_data`` argument is a dictionary that maps from package names to lists of glob patterns. The globs may include subdirectory names, if the data files are contained in a subdirectory of the package. For example, if the package tree looks like this::

```
setup.py
src/
  mypkg/
    __init__.py
    mypkg.txt
  data/
    somefile.dat
    otherdata.dat
```



The setuptools setup file might look like this::

```
from setuptools import setup, find_packages
setup(
    ...
    packages = find_packages('src'), # include all packages under src
    package_dir = {'': 'src'}, # tell distutils packages are under src

    package_data = {
        # If any package contains *.txt files, include them:
        '': ['*.txt'],
        # And include any *.dat files found in the 'data' subdirectory
        # of the 'mypkg' package, also:
        'mypkg': ['data/*.dat'],
    }
)
```

Notice that if you list patterns in ``package\_data`` under the empty string, these patterns are used to find files in every package, even ones that also have their own patterns listed. Thus, in the above example, the ``mypkg.txt`` file gets included even though it's not listed in the patterns for ``mypkg``.

Also notice that if you use paths, you *must* use a forward slash (``/``) as the path separator, even if you are on Windows. Setuptools automatically converts slashes to appropriate platform-specific separators at build time.

(Note: although the ``package\_data`` argument was previously only available in ``setuptools``, it was also added to the Python ``distutils`` package as of Python 2.4; there is *some* documentation for the feature `__` available on the python.org website. If using the setuptools-specific ``include\_package\_data`` argument, files specified by ``package\_data`` will *not* be automatically added to the manifest unless they are tracked by a supported version control system, or are listed in the MANIFEST.in file.)

\_\_ <http://docs.python.org/dist/node11.html>

Sometimes, the ``include\_package\_data`` or ``package\_data`` options alone aren't sufficient to precisely define what files you want included. For example, you may want to include package README files in your revision control system and source distributions, but exclude them from being installed. So, setuptools offers an ``exclude\_package\_data`` option as well, that allows you to do things like this::

```
from setuptools import setup, find_packages
setup(
    ...
    packages = find_packages('src'), # include all packages under src
```

```

package_dir = {'': 'src'}, # tell distutils packages are under src

include_package_data = True, # include everything in source control

# ...but exclude README.txt from all packages
exclude_package_data = { ':': ['README.txt'] },
)

```

The `exclude_package_data` option is a dictionary mapping package names to lists of wildcard patterns, just like the `package_data` option. And, just as with that option, a key of `''` will apply the given pattern(s) to all packages. However, any files that match these patterns will be *excluded* from installation, even if they were listed in `package_data` or were included as a result of using `include_package_data`.

In summary, the three options allow you to:

`include_package_data`

Accept all data files and directories matched by `MANIFEST.in` or found in source control.

`package_data`

Specify additional patterns to match files and directories that may or may not be matched by `MANIFEST.in` or found in source control.

`exclude_package_data`

Specify patterns for data files and directories that should *not* be included when a package is installed, even if they would otherwise have been included due to the use of the preceding options.

NOTE: Due to the way the distutils build process works, a data file that you include in your project and then stop including may be "orphaned" in your project's build directories, requiring you to run `setup.py clean --all` to fully remove them. This may also be important for your users and contributors if they track intermediate revisions of your project using Subversion; be sure to let them know when you make changes that remove files from inclusion so they can run `setup.py clean --all`.

#### Accessing Data Files at Runtime

-----

Typically, existing programs manipulate a package's `__file__` attribute in order to find the location of data files. However, this manipulation isn't compatible with PEP 302-based import hooks, including importing from zip files and Python Eggs. It is strongly recommended that, if you are using data files, you should use the Resource Management API of `pkg_resources` to access them. The `pkg_resources` module is distributed as part of `setuptools`, so if

you're using `setuptools` to distribute your package, there is no reason not to use its resource management API. See also `Accessing Package Resources` for a quick example of converting code that uses `__file__` to use `pkg_resources` instead.

.. `_Resource Management API`: <http://peak.telecommunity.com/DevCenter/PythonEggs#resource-management>  
.. `Accessing Package Resources`: <http://peak.telecommunity.com/DevCenter/PythonEggs#accessing-package-resources>

## Non-Package Data Files

-----

The `distutils` normally install general "data files" to a platform-specific location (e.g. `/usr/share`). This feature intended to be used for things like documentation, example configuration files, and the like. `setuptools` does not install these data files in a separate location, however. They are bundled inside the egg file or directory, alongside the Python modules and packages. The data files can also be accessed using the `Resource Management API`, by specifying a `Requirement` instead of a package name::

```
from pkg_resources import Requirement, resource_filename
filename = resource_filename(Requirement.parse("MyProject"), "sample.conf")
```

The above code will obtain the filename of the "sample.conf" file in the data root of the "MyProject" distribution.

Note, by the way, that this encapsulation of data files means that you can't actually install data files to some arbitrary location on a user's machine; this is a feature, not a bug. You can always include a script in your distribution that extracts and copies your the documentation or data files to a user-specified location, at their discretion. If you put related data files in a single directory, you can use `resource_filename()` with the directory name to get a filesystem directory that then can be copied with the `shutil` module. (Even if your package is installed as a zipfile, calling `resource_filename()` on a directory will return an actual filesystem directory, whose contents will be that entire subtree of your distribution.)

(Of course, if you're writing a new package, you can just as easily place your data files or directories inside one of your packages, rather than using the `distutils`' approach. However, if you're updating an existing application, it may be simpler not to change the way it currently specifies these data files.)

## Automatic Resource Extraction

-----

If you are using tools that expect your resources to be "real" files, or your

project includes non-extension native libraries or other files that your C extensions expect to be able to access, you may need to list those files in the `eager_resources` argument to `setup()`, so that the files will be extracted together, whenever a C extension in the project is imported.

This is especially important if your project includes shared libraries *other* than distutils-built C extensions, and those shared libraries use file extensions other than `.dll`, `.so`, or `.dylib`, which are the extensions that `setuptools` 0.6a8 and higher automatically detects as shared libraries and adds to the `native_libs.txt` file for you. Any shared libraries whose names do not end with one of those extensions should be listed as `eager_resources`, because they need to be present in the filesystem when the C extensions that link to them are used.

The `pkg_resources` runtime for compressed packages will automatically extract *all* C extensions and `eager_resources` at the same time, whenever *any* C extension or eager resource is requested via the `resource_filename()` API. (C extensions are imported using `resource_filename()` internally.) This ensures that C extensions will see all of the "real" files that they expect to see.

Note also that you can list directory resource names in `eager_resources` as well, in which case the directory's contents (including subdirectories) will be extracted whenever any C extension or eager resource is requested.

Please note that if you're not sure whether you need to use this argument, you don't! It's really intended to support projects with lots of non-Python dependencies and as a last resort for crufty projects that can't otherwise handle being compressed. If your package is pure Python, Python plus data files, or Python plus C, you really don't need this. You've got to be using either C or an external program that needs "real" files in your project before there's any possibility of `eager_resources` being relevant to your project.

## Extensible Applications and Frameworks

=====

.. `_Entry Points`:

Dynamic Discovery of Services and Plugins

-----

`setuptools` supports creating libraries that "plug in" to extensible applications and frameworks, by letting you register "entry points" in your project that can be imported by the application or framework.

For example, suppose that a blogging tool wants to support plugins

that provide translation for various file types to the blog's output format. The framework might define an "entry point group" called `blogtool.parsers`, and then allow plugins to register entry points for the file extensions they support.

This would allow people to create distributions that contain one or more parsers for different file types, and then the blogging tool would be able to find the parsers at runtime by looking up an entry point for the file extension (or mime type, or however it wants to).

Note that if the blogging tool includes parsers for certain file formats, it can register these as entry points in its own setup script, which means it doesn't have to special-case its built-in formats. They can just be treated the same as any other plugin's entry points would be.

If you're creating a project that plugs in to an existing application or framework, you'll need to know what entry points or entry point groups are defined by that application or framework. Then, you can register entry points in your setup script. Here are a few examples of ways you might register an `.rst` file parser entry point in the `blogtool.parsers` entry point group, for our hypothetical blogging tool::

```
setup(
    # ...
    entry_points = {'blogtool.parsers': '.rst = some_module:SomeClass'}
)
```

```
setup(
    # ...
    entry_points = {'blogtool.parsers': ['.rst = some_module:a_func']}
)
```

```
setup(
    # ...
    entry_points = """
    [blogtool.parsers]
    .rst = some.nested.module:SomeClass.some_classmethod [reST]
    """
    extras_require = dict(reST = "Docutils>=0.3.5")
)
```

The `entry_points` argument to `setup()` accepts either a string with `.ini`-style sections, or a dictionary mapping entry point group names to either strings or lists of strings containing entry point specifiers. An entry point specifier consists of a name and value, separated by an `=` sign. The value consists of a dotted module name, optionally followed by a `:` and a dotted identifier naming an object within the module. It can also include a bracketed list of "extras" that are required for the entry

point to be used. When the invoking application or framework requests loading of an entry point, any requirements implied by the associated extras will be passed to `pkg_resources.require()`, so that an appropriate error message can be displayed if the needed package(s) are missing. (Of course, the invoking app or framework can ignore such errors if it wants to make an entry point optional if a requirement isn't installed.)

## Defining Additional Metadata

-----

Some extensible applications and frameworks may need to define their own kinds of metadata to include in eggs, which they can then access using the `pkg_resources` metadata APIs. Ordinarily, this is done by having plugin developers include additional files in their `ProjectName.egg-info` directory. However, since it can be tedious to create such files by hand, you may want to create a `distutils` extension that will create the necessary files from arguments to `setup()`, in much the same way that `setuptools` does for many of the `setup()` arguments it adds. See the section below on `Creating distutils Extensions` for more details, especially the subsection on `Adding new EGG-INFO Files`.

## "Development Mode"

=====

Under normal circumstances, the `distutils` assume that you are going to build a distribution of your project, not use it in its "raw" or "unbuilt" form. If you were to use the `distutils` that way, you would have to rebuild and reinstall your project every time you made a change to it during development.

Another problem that sometimes comes up with the `distutils` is that you may need to do development on two related projects at the same time. You may need to put both projects' packages in the same directory to run them, but need to keep them separate for revision control purposes. How can you do this?

`Setuptools` allows you to deploy your projects for use in a common directory or staging area, but without copying any files. Thus, you can edit each project's code in its checkout directory, and only need to run build commands when you change a project's C extensions or similarly compiled files. You can even deploy a project into another project's checkout directory, if that's your preferred way of working (as opposed to using a common independent staging area or the `site-packages` directory).

To do this, use the `setup.py develop` command. It works very similarly to `setup.py install` or the `EasyInstall` tool, except that it doesn't actually install anything. Instead, it creates a special `.egg-link` file in the

deployment directory, that links to your project's source code. And, if your deployment directory is Python's `site-packages` directory, it will also update the `easy-install.pth` file to include your project's source code, thereby making it available on `sys.path` for all programs using that Python installation.

If you have enabled the `use_2to3` flag, then of course the `.egg-link` will not link directly to your source code when run under Python 3, since that source code would be made for Python 2 and not work under Python 3. Instead the `setup.py develop` will build Python 3 code under the `build` directory, and link there. This means that after doing code changes you will have to run `setup.py build` before these changes are picked up by your Python 3 installation.

In addition, the `develop` command creates wrapper scripts in the target script directory that will run your in-development scripts after ensuring that all your `install_requires` packages are available on `sys.path`.

You can deploy the same project to multiple staging areas, e.g. if you have multiple projects on the same machine that are sharing the same project you're doing development work.

When you're done with a given development task, you can remove the project source from a staging area using `setup.py develop --uninstall`, specifying the desired staging area if it's not the default.

There are several options to control the precise behavior of the `develop` command; see the section on the `develop`_`` command below for more details.

Note that you can also apply `setuptools` commands to non-`setuptools` projects, using commands like this::

```
python -c "import setuptools; execfile('setup.py')" develop
```

That is, you can simply list the normal setup commands and options following the quoted part.

#### Distributing a `setuptools`-based project

=====

#### Using `setuptools`... Without bundling it!

-----

Your users might not have `setuptools` installed on their machines, or even if they do, it might not be the right version. Fixing this is easy; just download `ez_setup.py`_``, and put it in the same directory as your `setup.py`_`` script. (Be sure to add it to your revision control system, too.) Then add

these two lines to the very top of your setup script, before the script imports anything from setuptools:

```
.. code-block:: python

import ez_setup
ez_setup.use_setuptools()
```

That's it. The `ez_setup` module will automatically download a matching version of `setuptools` from PyPI, if it isn't present on the target system. Whenever you install an updated version of `setuptools`, you should also update your projects' `ez_setup.py` files, so that a matching version gets installed on the target machine(s).

By the way, `setuptools` supports the new PyPI "upload" command, so you can use `setup.py sdist upload` or `setup.py bdist_egg upload` to upload your source or egg distributions respectively. Your project's current version must be registered with PyPI first, of course; you can use `setup.py register` to do that. Or you can do it all in one step, e.g. `setup.py register sdist bdist_egg upload` will register the package, build source and egg distributions, and then upload them both to PyPI, where they'll be easily found by other projects that depend on them.

(By the way, if you need to distribute a specific version of `setuptools`, you can specify the exact version and base download URL as parameters to the `use_setuptools()` function. See the function's docstring for details.)

## What Your Users Should Know

-----

In general, a `setuptools`-based project looks just like any `distutils`-based project -- as long as your users have an internet connection and are installing to `site-packages`, that is. But for some users, these conditions don't apply, and they may become frustrated if this is their first encounter with a `setuptools`-based project. To keep these users happy, you should review the following topics in your project's installation instructions, if they are relevant to your project and your target audience isn't already familiar with `setuptools` and `easy_install`.

### Network Access

If your project is using `ez_setup`, you should inform users of the need to either have network access, or to preinstall the correct version of `setuptools` using the `EasyInstall` installation instructions. Those instructions also have tips for dealing with firewalls as well as how to manually download and install `setuptools`.

### Custom Installation Locations



You should inform your users that if they are installing your project to somewhere other than the main `site-packages` directory, they should first install `setuptools` using the instructions for `Custom Installation Locations`, before installing your project.

#### Your Project's Dependencies

If your project depends on other projects that may need to be downloaded from PyPI or elsewhere, you should list them in your installation instructions, or tell users how to find out what they are. While most users will not need this information, any users who don't have unrestricted internet access may have to find, download, and install the other projects manually. (Note, however, that they must still install those projects using `easy_install`, or your project will not know they are installed, and your setup script will try to download them again.)

If you want to be especially friendly to users with limited network access, you may wish to build eggs for your project and its dependencies, making them all available for download from your site, or at least create a page with links to all of the needed eggs. In this way, users with limited network access can manually download all the eggs to a single directory, then use the `-f` option of `easy_install` to specify the directory to find eggs in. Users who have full network access can just use `-f` with the URL of your download page, and `easy_install` will find all the needed eggs using your links directly. This is also useful when your target audience isn't able to compile packages (e.g. most Windows users) and your package or some of its dependencies include C code.

#### Subversion or CVS Users and Co-Developers

Users and co-developers who are tracking your in-development code using CVS, Subversion, or some other revision control system should probably read this manual's sections regarding such development. Alternately, you may wish to create a quick-reference guide containing the tips from this manual that apply to your particular situation. For example, if you recommend that people use `setup.py develop` when tracking your in-development code, you should let them know that this needs to be run after every update or commit.

Similarly, if you remove modules or data files from your project, you should remind them to run `setup.py clean --all` and delete any obsolete `.pyc` or `.pyo`. (This tip applies to the `distutils` in general, not just `setuptools`, but not everybody knows about them; be kind to your users by spelling out your project's best practices rather than leaving them guessing.)

#### Creating System Packages

Some users want to manage all Python packages using a single package manager, and sometimes that package manager isn't `easy_install`! `Setuptools` currently supports `bdist_rpm`, `bdist_wininst`, and

`bdist_dumb` formats for system packaging. If a user has a locally-installed "bdist" packaging tool that internally uses the distutils `install` command, it should be able to work with `setuptools`. Some examples of "bdist" formats that this should work with include the `bdist_nsi` and `bdist_msi` formats for Windows.

However, packaging tools that build binary distributions by running `setup.py install` on the command line or as a subprocess will require modification to work with `setuptools`. They should use the `--single-version-externally-managed` option to the `install` command, combined with the standard `--root` or `--record` options. See the `install` command's documentation below for more details. The `bdist_deb` command is an example of a command that currently requires this kind of patching to work with `setuptools`.

If you or your users have a problem building a usable system package for your project, please report the problem via the mailing list so that either the "bdist" tool in question or `setuptools` can be modified to resolve the issue.

#### Setting the `zip_safe` flag

-----

For maximum performance, Python packages are best installed as zip files. Not all packages, however, are capable of running in compressed form, because they may expect to be able to access either source code or data files as normal operating system files. So, `setuptools` can install your project as a zipfile or a directory, and its default choice is determined by the project's `zip_safe` flag.

You can pass a True or False value for the `zip_safe` argument to the `setup()` function, or you can omit it. If you omit it, the `bdist_egg` command will analyze your project's contents to see if it can detect any conditions that would prevent it from working in a zipfile. It will output notices to the console about any such conditions that it finds.

Currently, this analysis is extremely conservative: it will consider the project unsafe if it contains any C extensions or datafiles whatsoever. This does *not* mean that the project can't or won't work as a zipfile! It just means that the `bdist_egg` authors aren't yet comfortable asserting that the project *will* work. If the project contains no C or data files, and does no `__file__` or `__path__` introspection or source code manipulation, then there is an extremely solid chance the project will work when installed as a zipfile. (And if the project uses `pkg_resources` for all its data file access, then C extensions and other data files shouldn't be a problem at all. See the `Accessing Data Files at Runtime` section above for more information.)

However, if `bdist_egg` can't be *sure* that your package will work, but you've checked over all the warnings it issued, and you are either satisfied it *will* work (or if you want to try it for yourself), then you should set `zip_safe` to `True` in your `setup()` call. If it turns out that it doesn't work, you can always change it to `False`, which will force `setuptools` to install your project as a directory rather than as a zipfile.

Of course, the end-user can still override either decision, if they are using `EasyInstall` to install your package. And, if you want to override for testing purposes, you can just run `setup.py easy_install --zip-ok .` or `setup.py easy_install --always-unzip .` in your project directory. to install the package as a zipfile or directory, respectively.

In the future, as we gain more experience with different packages and become more satisfied with the robustness of the `pkg_resources` runtime, the "zip safety" analysis may become less conservative. However, we strongly recommend that you determine for yourself whether your project functions correctly when installed as a zipfile, correct any problems if you can, and then make an explicit declaration of `True` or `False` for the `zip_safe` flag, so that it will not be necessary for `bdist_egg` or `EasyInstall` to try to guess whether your project can work as a zipfile.

## Namespace Packages

-----

Sometimes, a large package is more useful if distributed as a collection of smaller eggs. However, Python does not normally allow the contents of a package to be retrieved from more than one location. "Namespace packages" are a solution for this problem. When you declare a package to be a namespace package, it means that the package has no meaningful contents in its `__init__.py`, and that it is merely a container for modules and subpackages.

The `pkg_resources` runtime will then automatically ensure that the contents of namespace packages that are spread over multiple eggs or directories are combined into a single "virtual" package.

The `namespace_packages` argument to `setup()` lets you declare your project's namespace packages, so that they will be included in your project's metadata. The argument should list the namespace packages that the egg participates in. For example, the `ZopeInterface` project might do this::

```
setup(  
    # ...  
    namespace_packages = ['zope']  
)
```

because it contains a `zope.interface` package that lives in the `zope`

namespace package. Similarly, a project for a standalone `zope.publisher` would also declare the `zope` namespace package. When these projects are installed and used, Python will see them both as part of a "virtual" `zope` package, even though they will be installed in different locations.

Namespace packages don't have to be top-level packages. For example, Zope 3's `zope.app` package is a namespace package, and in the future PEAK's `peak.util` package will be too.

Note, by the way, that your project's source tree must include the namespace packages' `__init__.py` files (and the `__init__.py` of any parent packages), in a normal Python package layout. These `__init__.py` files *must* contain the line::

```
__import__('pkg_resources').declare_namespace(__name__)
```

This code ensures that the namespace package machinery is operating and that the current package is registered as a namespace package.

You must NOT include any other code and data in a namespace package's `__init__.py`. Even though it may appear to work during development, or when projects are installed as `.egg` files, it will not work when the projects are installed using "system" packaging tools -- in such cases the `__init__.py` files will not be installed, let alone executed.

You must include the `declare_namespace()` line in the `__init__.py` of *every* project that has contents for the namespace package in question, in order to ensure that the namespace will be declared regardless of which project's copy of `__init__.py` is loaded first. If the first loaded `__init__.py` doesn't declare it, it will never *be* declared, because no other copies will ever be loaded!

## TRANSITIONAL NOTE

~~~~~

Setuptools automatically calls `declare_namespace()` for you at runtime, but future versions may *not*. This is because the automatic declaration feature has some negative side effects, such as needing to import all namespace packages during the initialization of the `pkg_resources` runtime, and also the need for `pkg_resources` to be explicitly imported before any namespace packages work at all. In some future releases, you'll be responsible for including your own declaration lines, and the automatic declaration feature will be dropped to get rid of the negative side effects.

During the remainder of the current development cycle, therefore, setuptools will warn you about missing `declare_namespace()` calls in your `__init__.py` files, and you should correct these as soon as possible

before the compatibility support is removed.

Namespace packages without declaration lines will not work

correctly once a user has upgraded to a later version, so it's important that you make this change now in order to avoid having your code break in the field.

Our apologies for the inconvenience, and thank you for your patience.

## Tagging and "Daily Build" or "Snapshot" Releases

-----

When a set of related projects are under development, it may be important to track finer-grained version increments than you would normally use for e.g. "stable" releases. While stable releases might be measured in dotted numbers with alpha/beta/etc. status codes, development versions of a project often need to be tracked by revision or build number or even build date. This is especially true when projects in development need to refer to one another, and therefore may literally need an up-to-the-minute version of something!

To support these scenarios, `setuptools` allows you to "tag" your source and egg distributions by adding one or more of the following to the project's "official" version identifier:

- \* A manually-specified pre-release tag, such as "build" or "dev", or a manually-specified post-release tag, such as a build or revision number (`--tag-build=STRING, -bSTRING`)
- \* A "last-modified revision number" string generated automatically from Subversion's metadata (assuming your project is being built from a Subversion "working copy") (`--tag-svn-revision, -r`)
- \* An 8-character representation of the build date (`--tag-date, -d`), as a postrelease tag

You can add these tags by adding `egg_info` and the desired options to the command line ahead of the `sdist` or `bdist` commands that you want to generate a daily build or snapshot for. See the section below on the `egg_info`_`` command for more details.

(Also, before you release your project, be sure to see the section above on `Specifying Your Project's Version`_`` for more information about how pre- and post-release tags affect how `setuptools` and `EasyInstall` interpret version numbers. This is important in order to make sure that dependency processing tools will know which versions of your project are newer than others.)

Finally, if you are creating builds frequently, and either building them in a downloadable location or are copying them to a distribution server, you should probably also check out the `rotate`_`` command, which lets you automatically

delete all but the N most-recently-modified distributions matching a glob pattern. So, you can use a command line like::

```
setup.py egg_info -rbDEV bdist_egg rotate -m.egg -k3
```

to build an egg whose version info includes 'DEV-rNNNN' (where NNNN is the most recent Subversion revision that affected the source tree), and then delete any egg files from the distribution directory except for the three that were built most recently.

If you have to manage automated builds for multiple packages, each with different tagging and rotation policies, you may also want to check out the `alias`_`` command, which would let each package define an alias like `daily`` that would perform the necessary tag, build, and rotate commands. Then, a simpler script or cron job could just run `setup.py daily`` in each project directory. (And, you could also define sitewide or per-user default versions of the `daily`` alias, so that projects that didn't define their own would use the appropriate defaults.)

## Generating Source Distributions

-----

`setuptools`` enhances the `distutils`` default algorithm for source file selection, so that all files managed by CVS or Subversion in your project tree are included in any source distribution you build. This is a big improvement over having to manually write a `MANIFEST.in`` file and try to keep it in sync with your project. So, if you are using CVS or Subversion, and your source distributions only need to include files that you're tracking in revision control, don't create a `MANIFEST.in`` file for your project. (And, if you already have one, you might consider deleting it the next time you would otherwise have to change it.)

(NOTE: other revision control systems besides CVS and Subversion can be supported using plugins; see the section below on `Adding Support for Other Revision Control Systems`_`` for information on how to write such plugins.)

If you need to include automatically generated files, or files that are kept in an unsupported revision control system, you'll need to create a `MANIFEST.in`` file to specify any files that the default file location algorithm doesn't catch. See the `distutils`` documentation for more information on the format of the `MANIFEST.in`` file.

But, be sure to ignore any part of the `distutils`` documentation that deals with `MANIFEST`` or how it's generated from `MANIFEST.in``; `setuptools`` shields you from these issues and doesn't work the same way in any case. Unlike the `distutils``, `setuptools`` regenerates the source distribution manifest file every time you build a source distribution, and it builds it inside the

project's `egg-info` directory, out of the way of your main project directory. You therefore need not worry about whether it is up-to-date or not.

Indeed, because `setuptools`' approach to determining the contents of a source distribution is so much simpler, its `sdist` command omits nearly all of the options that the `distutils`' more complex `sdist` process requires. For all practical purposes, you'll probably use only the `--formats` option, if you use any option at all.

(By the way, if you're using some other revision control system, you might consider creating and publishing a `revision control plugin for setuptools`.)

.. `revision control plugin for setuptools: Adding Support for Other Revision Control Systems`

### Making your package available for EasyInstall

-----

If you use the `register` command (`setup.py register`) to register your package with PyPI, that's most of the battle right there. (See the `docs for the register command` for more details.)

.. `docs for the register command: http://docs.python.org/dist/package-index.html`

If you also use the `upload` command to upload actual distributions of your package, that's even better, because EasyInstall will be able to find and download them directly from your project's PyPI page.

However, there may be reasons why you don't want to upload distributions to PyPI, and just want your existing distributions (or perhaps a Subversion checkout) to be used instead.

So here's what you need to do before running the `register` command. There are three `setup()` arguments that affect EasyInstall:

`url` and `download_url`

These become links on your project's PyPI page. EasyInstall will examine them to see if they link to a package ("primary links"), or whether they are HTML pages. If they're HTML pages, EasyInstall scans all HREF's on the page for primary links

`long_description`

EasyInstall will check any URLs contained in this argument to see if they are primary links.

A URL is considered a "primary link" if it is a link to a `.tar.gz`, `.tgz`, `.zip`, `.egg`, `.egg.zip`, `.tar.bz2`, or `.exe` file, or if it has an `#egg=project` or

`#egg=project-version` fragment identifier attached to it. EasyInstall attempts to determine a project name and optional version number from the text of a primary link *without* downloading it. When it has found all the primary links, EasyInstall will select the best match based on requested version, platform compatibility, and other criteria.

So, if your `url` or `download_url` point either directly to a downloadable source distribution, or to HTML page(s) that have direct links to such, then EasyInstall will be able to locate downloads automatically. If you want to make Subversion checkouts available, then you should create links with either `#egg=project` or `#egg=project-version` added to the URL. You should replace `project` and `version` with the values they would have in an egg filename. (Be sure to actually generate an egg and then use the initial part of the filename, rather than trying to guess what the escaped form of the project name and version number will be.)

Note that Subversion checkout links are of lower precedence than other kinds of distributions, so EasyInstall will not select a Subversion checkout for downloading unless it has a version included in the `#egg=` suffix, and it's a higher version than EasyInstall has seen in any other links for your project.

As a result, it's a common practice to use mark checkout URLs with a version of "dev" (i.e., `#egg=projectname-dev`), so that users can do something like this::

```
easy_install --editable projectname==dev
```

in order to check out the in-development version of `projectname`.

## Managing "Continuous Releases" Using Subversion

-----

If you expect your users to track in-development versions of your project via Subversion, there are a few additional steps you should take to ensure that things work smoothly with EasyInstall. First, you should add the following to your project's `setup.cfg` file:

```
.. code-block:: ini
```

```
[egg_info]
tag_build = .dev
tag_svn_revision = 1
```

This will tell `setuptools` to generate package version numbers like `1.0a1.dev-r1263`, which will be considered to be an *older* release than `1.0a1`. Thus, when you actually release `1.0a1`, the entire egg



infrastructure (including ```setuptools```, ```pkg_resources``` and EasyInstall) will know that ```1.0a1``` supersedes any interim snapshots from Subversion, and handle upgrades accordingly.

(Note: the project version number you specify in ```setup.py``` should always be the *\*next\** version of your software, not the last released version.

Alternately, you can leave out the ```tag_build=.dev```, and always use the *\*last\** release as a version number, so that your post-1.0 builds are labelled ```1.0-r1263```, indicating a post-1.0 patchlevel. Most projects so far, however, seem to prefer to think of their project as being a future version still under development, rather than a past version being patched. It is of course possible for a single project to have both situations, using post-release numbering on release branches, and pre-release numbering on the trunk. But you don't have to make things this complex if you don't want to.)

Commonly, projects releasing code from Subversion will include a PyPI link to their checkout URL (as described in the previous section) with an ```#egg=projectname-dev``` suffix. This allows users to request EasyInstall to download ```projectname==dev``` in order to get the latest in-development code. Note that if your project depends on such in-progress code, you may wish to specify your ```install_requires``` (or other requirements) to include ```==dev```, e.g.:

```
.. code-block:: python
```

```
install_requires = ["OtherProject>=0.2a1.dev-r143,==dev"]
```

The above example says, "I really want at least this particular development revision number, but feel free to follow and use an ```#egg=OtherProject-dev``` link if you find one". This avoids the need to have actual source or binary distribution snapshots of in-development code available, just to be able to depend on the latest and greatest a project has to offer.

A final note for Subversion development: if you are using SVN revision tags as described in this section, it's a good idea to run ```setup.py develop``` after each Subversion checkin or update, because your project's version number will be changing, and your script wrappers need to be updated accordingly.

Also, if the project's requirements have changed, the ```develop``` command will take care of fetching the updated dependencies, building changed extensions, etc. Be sure to also remind any of your users who check out your project from Subversion that they need to run ```setup.py develop``` after every update in order to keep their checkout completely in sync.

### Making "Official" (Non-Snapshot) Releases

~~~~~

When you make an official release, creating source or binary distributions, you will need to override the tag settings from `setup.cfg`, so that you don't end up registering versions like `foobar-0.7a1.dev-r34832`. This is easy to do if you are developing on the trunk and using tags or branches for your releases - just make the change to `setup.cfg` after branching or tagging the release, so the trunk will still produce development snapshots.

Alternately, if you are not branching for releases, you can override the default version options on the command line, using something like::

```
python setup.py egg_info -RDb "" sdist bdist_egg register upload
```

The first part of this command (`egg_info -RDb ""`) will override the configured tag information, before creating source and binary eggs, registering the project with PyPI, and uploading the files. Thus, these commands will use the plain version from your `setup.py`, without adding the Subversion revision number or build designation string.

Of course, if you will be doing this a lot, you may wish to create a personal alias for this operation, e.g.::

```
python setup.py alias -u release egg_info -RDb ""
```

You can then use it like this::

```
python setup.py release sdist bdist_egg register upload
```

Or of course you can create more elaborate aliases that do all of the above. See the sections below on the `egg_info` and `alias` commands for more ideas.

## Distributing Extensions compiled with Pyrex

-----

`setuptools` includes transparent support for building Pyrex extensions, as long as you define your extensions using `setuptools.Extension`, *not* `distutils.Extension`. You must also not import anything from Pyrex in your setup script.

If you follow these rules, you can safely list `.pyx` files as the source of your `Extension` objects in the setup script. `setuptools` will detect at build time whether Pyrex is installed or not. If it is, then `setuptools` will use it. If not, then `setuptools` will silently change the `Extension` objects to refer to the `.c` counterparts of the `.pyx` files, so that the normal `distutils` C compilation process will occur.

Of course, for this to work, your source distributions must include the C

code generated by Pyrex, as well as your original ``.pyx`` files. This means that you will probably want to include current ``.c`` files in your revision control system, rebuilding them whenever you check changes in for the ``.pyx`` source files. This will ensure that people tracking your project in CVS or Subversion will be able to build it even if they don't have Pyrex installed, and that your source releases will be similarly usable with or without Pyrex.

-----  
Command Reference  
-----

.. \_alias:

``alias`` - Define shortcuts for commonly used commands

=====

Sometimes, you need to use the same commands over and over, but you can't necessarily set them as defaults. For example, if you produce both development snapshot releases and "stable" releases of a project, you may want to put the distributions in different places, or use different ``egg\_info`` tagging options, etc. In these cases, it doesn't make sense to set the options in a distutils configuration file, because the values of the options changed based on what you're trying to do.

Setuptools therefore allows you to define "aliases" - shortcut names for an arbitrary string of commands and options, using ``setup.py alias aliasname expansion``, where aliasname is the name of the new alias, and the remainder of the command line supplies its expansion. For example, this command defines a sitewide alias called "daily", that sets various ``egg\_info`` tagging options::

```
setup.py alias --global-config daily egg_info --tag-svn-revision \  
--tag-build=development
```

Once the alias is defined, it can then be used with other setup commands, e.g.::

```
setup.py daily bdist_egg      # generate a daily-build .egg file  
setup.py daily sdist         # generate a daily-build source distro  
setup.py daily sdist bdist_egg # generate both
```

The above commands are interpreted as if the word ``daily`` were replaced with ``egg\_info --tag-svn-revision --tag-build=development``.

Note that setuptools will expand each alias \*at most once\* in a given command line. This serves two purposes. First, if you accidentally create an alias loop, it will have no effect; you'll instead get an error message about an

unknown command. Second, it allows you to define an alias for a command, that uses that command. For example, this (project-local) alias::

```
setup.py alias bdist_egg bdist_egg rotate -k1 -m.egg
```

redefines the `bdist_egg` command so that it always runs the `rotate` command afterwards to delete all but the newest egg file. It doesn't loop indefinitely on `bdist_egg` because the alias is only expanded once when used.

You can remove a defined alias with the `--remove` (or `-r`) option, e.g.::

```
setup.py alias --global-config --remove daily
```

would delete the "daily" alias we defined above.

Aliases can be defined on a project-specific, per-user, or sitewide basis. The default is to define or remove a project-specific alias, but you can use any of the `configuration file options` (listed under the `saveopts` command, below) to determine which distutils configuration file an aliases will be added to (or removed from).

Note that if you omit the "expansion" argument to the `alias` command, you'll get output showing that alias' current definition (and what configuration file it's defined in). If you omit the alias name as well, you'll get a listing of all current aliases along with their configuration file locations.

```
bdist_egg - Create a Python Egg for the project
```

```
=====
```

This command generates a Python Egg (`.egg` file) for the project. Python Eggs are the preferred binary distribution format for EasyInstall, because they are cross-platform (for "pure" packages), directly importable, and contain project metadata including scripts and information about the project's dependencies. They can be simply downloaded and added to `sys.path` directly, or they can be placed in a directory on `sys.path` and then automatically discovered by the egg runtime system.

This command runs the `egg_info` command (if it hasn't already run) to update the project's metadata (`egg-info`) directory. If you have added any extra metadata files to the `egg-info` directory, those files will be included in the new egg file's metadata directory, for use by the egg runtime system or by any applications or frameworks that use that metadata.

You won't usually need to specify any special options for this command; just use `bdist_egg` and you're done. But there are a few options that may

be occasionally useful:

`--dist-dir=DIR, -d DIR`

Set the directory where the `.egg` file will be placed. If you don't supply this, then the `--dist-dir` setting of the `bdist` command will be used, which is usually a directory named `dist` in the project directory.

`--plat-name=PLATFORM, -p PLATFORM`

Set the platform name string that will be embedded in the egg's filename (assuming the egg contains C extensions). This can be used to override the distutils default platform name with something more meaningful. Keep in mind, however, that the egg runtime system expects to see eggs with distutils platform names, so it may ignore or reject eggs with non-standard platform names. Similarly, the EasyInstall program may ignore them when searching web pages for download links. However, if you are cross-compiling or doing some other unusual things, you might find a use for this option.

`--exclude-source-files`

Don't include any modules' `.py` files in the egg, just compiled Python, C, and data files. (Note that this doesn't affect any `.py` files in the EGG-INFO directory or its subdirectories, since for example there may be scripts with a `.py` extension which must still be retained.) We don't recommend that you use this option except for packages that are being bundled for proprietary end-user applications, or for "embedded" scenarios where space is at an absolute premium. On the other hand, if your package is going to be installed and used in compressed form, you might as well exclude the source because Python's `traceback` module doesn't currently understand how to display zipped source code anyway, or how to deal with files that are in a different place from where their code was compiled.

There are also some options you will probably never need, but which are there because they were copied from similar `bdist` commands used as an example for creating this one. They may be useful for testing and debugging, however, which is why we kept them:

`--keep-temp, -k`

Keep the contents of the `--bdist-dir` tree around after creating the `.egg` file.

`--bdist-dir=DIR, -b DIR`

Set the temporary directory for creating the distribution. The entire contents of this directory are zipped to create the `.egg` file, after running various installation commands to copy the package's modules, data, and extensions here.

`--skip-build`

Skip doing any "build" commands; just go straight to the install-and-compress phases.

.. \_develop:

```develop``` - Deploy the project source in "Development Mode"

=====

This command allows you to deploy your project's source for use in one or more "staging areas" where it will be available for importing. This deployment is done in such a way that changes to the project source are immediately available in the staging area(s), without needing to run a build or install step after each change.

The ```develop``` command works by creating an ```.egg-link``` file (named for the project) in the given staging area. If the staging area is Python's ```site-packages``` directory, it also updates an ```easy-install.pth``` file so that the project is on ```sys.path``` by default for all programs run using that Python installation.

The ```develop``` command also installs wrapper scripts in the staging area (or a separate directory, as specified) that will ensure the project's dependencies are available on ```sys.path``` before running the project's source scripts. And, it ensures that any missing project dependencies are available in the staging area, by downloading and installing them if necessary.

Last, but not least, the ```develop``` command invokes the ```build_ext -i``` command to ensure any C extensions in the project have been built and are up-to-date, and the ```egg_info``` command to ensure the project's metadata is updated (so that the runtime and wrappers know what the project's dependencies are). If you make any changes to the project's setup script or C extensions, you should rerun the ```develop``` command against all relevant staging areas to keep the project's scripts, metadata and extensions up-to-date. Most other kinds of changes to your project should not require any build operations or rerunning ```develop```, but keep in mind that even minor changes to the setup script (e.g. changing an entry point definition) require you to re-run the ```develop``` or ```test``` commands to keep the distribution updated.

Here are some of the options that the ```develop``` command accepts. Note that they affect the project's dependencies as well as the project itself, so if you have dependencies that need to be installed and you use ```--exclude-scripts``` (for example), the dependencies' scripts will not be installed either! For this reason, you may want to use EasyInstall to install the project's dependencies before using the ```develop``` command, if you need finer control over the installation options for dependencies.

```--uninstall, -u```

Un-deploy the current project. You may use the `--install-dir` or `-d` option to designate the staging area. The created `.egg-link` file will be removed, if present and it is still pointing to the project directory. The project directory will be removed from `easy-install.pth` if the staging area is Python's `site-packages` directory.

Note that this option currently does *not* uninstall script wrappers! You must uninstall them yourself, or overwrite them by using EasyInstall to activate a different version of the package. You can also avoid installing script wrappers in the first place, if you use the `--exclude-scripts` (aka `-x`) option when you run `develop` to deploy the project.

`--multi-version, -m`

"Multi-version" mode. Specifying this option prevents `develop` from adding an `easy-install.pth` entry for the project(s) being deployed, and if an entry for any version of a project already exists, the entry will be removed upon successful deployment. In multi-version mode, no specific version of the package is available for importing, unless you use `pkg_resources.require()` to put it on `sys.path`, or you are running a wrapper script generated by `setuptools` or EasyInstall. (In which case the wrapper script calls `require()` for you.)

Note that if you install to a directory other than `site-packages`, this option is automatically in effect, because `.pth` files can only be used in `site-packages` (at least in Python 2.3 and 2.4). So, if you use the `--install-dir` or `-d` option (or they are set via configuration file(s)) your project and its dependencies will be deployed in multi-version mode.

`--install-dir=DIR, -d DIR`

Set the installation directory (staging area). If this option is not directly specified on the command line or in a distutils configuration file, the distutils default installation location is used. Normally, this will be the `site-packages` directory, but if you are using distutils configuration files, setting things like `prefix` or `install_lib`, then those settings are taken into account when computing the default staging area.

`--script-dir=DIR, -s DIR`

Set the script installation directory. If you don't supply this option (via the command line or a configuration file), but you *have* supplied an `--install-dir` (via command line or config file), then this option defaults to the same directory, so that the scripts will be able to find their associated package installation. Otherwise, this setting defaults to the location where the distutils would normally install scripts, taking any distutils configuration file settings into account.

`--exclude-scripts, -x`

Don't deploy script wrappers. This is useful if you don't want to disturb existing versions of the scripts in the staging area.

`--always-copy, -a`

Copy all needed distributions to the staging area, even if they are already present in another directory on `sys.path`. By default, if a requirement can be met using a distribution that is already available in a directory on `sys.path`, it will not be copied to the staging area.

`--egg-path=DIR`

Force the generated `.egg-link` file to use a specified relative path to the source directory. This can be useful in circumstances where your installation directory is being shared by code running under multiple platforms (e.g. Mac and Windows) which have different absolute locations for the code under development, but the same *relative* locations with respect to the installation directory. If you use this option when installing, you must supply the same relative path when uninstalling.

In addition to the above options, the `develop` command also accepts all of the same options accepted by `easy_install`. If you've configured any `easy_install` settings in your `setup.cfg` (or other distutils config files), the `develop` command will use them as defaults, unless you override them in a `[develop]` section or on the command line.

`easy_install` - Find and install packages

=====

This command runs the `EasyInstall` tool `<easy_install.html>` for you. It is exactly equivalent to running the `easy_install` command. All command line arguments following this command are consumed and not processed further by the distutils, so this must be the last command listed on the command line. Please see the `EasyInstall` documentation for the options reference and usage examples. Normally, there is no reason to use this command via the command line, as you can just use `easy_install` directly. It's only listed here so that you know it's a distutils command, which means that you can:

- \* create command aliases that use it,
- \* create distutils extensions that invoke it as a subcommand, and
- \* configure options for it in your `setup.cfg` or other distutils config files.

`.._egg_info`:

`egg_info` - Create egg metadata and set build tags

=====



This command performs two operations: it updates a project's `egg-info` metadata directory (used by the `bdist_egg`, `develop`, and `test` commands), and it allows you to temporarily change a project's version string, to support "daily builds" or "snapshot" releases. It is run automatically by the `sdist`, `bdist_egg`, `develop`, `register`, and `test` commands in order to update the project's metadata, but you can also specify it explicitly in order to temporarily change the project's version string while executing other commands. (It also generates the `egg-info/SOURCES.txt` manifest file, which is used when you are building source distributions.)

In addition to writing the core egg metadata defined by `setuptools` and required by `pkg_resources`, this command can be extended to write other metadata files as well, by defining entry points in the `egg_info.writers` group. See the section on `Adding new EGG-INFO Files` below for more details. Note that using additional metadata writers may require you to include a `setup_requires` argument to `setup()` in order to ensure that the desired writers are available on `sys.path`.

## Release Tagging Options

-----

The following options can be used to modify the project's version string for all remaining commands on the setup command line. The options are processed in the order shown, so if you use more than one, the requested tags will be added in the following order:

`--tag-build=NAME, -b NAME`

Append NAME to the project's version string. Due to the way setuptools processes "pre-release" version suffixes beginning with the letters "a" through "e" (like "alpha", "beta", and "candidate"), you will usually want to use a tag like ".build" or ".dev", as this will cause the version number to be considered *lower* than the project's default version. (If you want to make the version number *higher* than the default version, you can always leave off `--tag-build` and then use one or both of the following options.)

If you have a default build tag set in your `setup.cfg`, you can suppress it on the command line using `-b ""` or `--tag-build=""` as an argument to the `egg_info` command.

`--tag-svn-revision, -r`

If the current directory is a Subversion checkout (i.e. has a `.svn` subdirectory, this appends a string of the form "-rNNNN" to the project's version string, where NNNN is the revision number of the most recent modification to the current directory, as obtained from the `svn info` command.

If the current directory is not a Subversion checkout, the command will look for a `PKG-INFO` file instead, and try to find the revision number from that, by looking for a `-rNNNN` string at the end of the version number. (This is so that building a package from a source distribution of a Subversion snapshot will produce a binary with the correct version number.)

If there is no `PKG-INFO` file, or the version number contained therein does not end with `-r` and a number, then `-r0` is used.

`--no-svn-revision, -R`

Don't include the Subversion revision in the version number. This option is included so you can override a default setting put in `setup.cfg`.

`--tag-date, -d`

Add a date stamp of the form `-YYYYMMDD` (e.g. `-20050528`) to the project's version number.

`--no-date, -D`

Don't include a date stamp in the version number. This option is included so you can override a default setting in `setup.cfg`.

(Note: Because these options modify the version number used for source and binary distributions of your project, you should first make sure that you know how the resulting version numbers will be interpreted by automated tools like EasyInstall. See the section above on `Specifying Your Project's Version` for an explanation of pre- and post-release tags, as well as tips on how to choose and verify a versioning scheme for your project.)

For advanced uses, there is one other option that can be set, to change the location of the project's `.egg-info` directory. Commands that need to find the project's source directory or metadata should get it from this setting:

Other `egg_info` Options

`--egg-base=SOURCEDIR, -e SOURCEDIR`

Specify the directory that should contain the `.egg-info` directory. This should normally be the root of your project's source tree (which is not necessarily the same as your project directory; some projects use a `src` or `lib` subdirectory as the source root). You should not normally need to specify this directory, as it is normally determined from the `package_dir` argument to the `setup()` function, if any. If there is no `package_dir` set, this option defaults to the current directory.

## ```egg_info``` Examples

---

Creating a dated "nightly build" snapshot egg::

```
python setup.py egg_info --tag-date --tag-build=DEV bdist_egg
```

Creating and uploading a release with no version tags, even if some default tags are specified in ```setup.cfg```::

```
python setup.py egg_info -RDb "" sdist bdist_egg register upload
```

(Notice that ```egg_info``` must always appear on the command line *before* any commands that you want the version changes to apply to.)

.. `_install` command:

```install``` - Run ```easy_install``` or old-style installation

---

The `setuptools` ```install``` command is basically a shortcut to run the ```easy_install``` command on the current project. However, for convenience in creating "system packages" of `setuptools`-based projects, you can also use this option:

```--single-version-externally-managed```

This boolean option tells the ```install``` command to perform an "old style" installation, with the addition of an ```.egg-info``` directory so that the installed project will still have its metadata available and operate normally. If you use this option, you *must* also specify the ```--root``` or ```--record``` options (or both), because otherwise you will have no way to identify and remove the installed files.

This option is automatically in effect when ```install``` is invoked by another `distutils` command, so that commands like ```bdist_wininst``` and ```bdist_rpm``` will create system packages of eggs. It is also automatically in effect if you specify the ```--root``` option.

```install_egg_info``` - Install an ```.egg-info``` directory in ```site-packages```

---

`setuptools` runs this command as part of ```install``` operations that use the ```--single-version-externally-managed``` options. You should not invoke it directly; it is documented here for completeness and so that `distutils` extensions such as system package builders can make use of it. This command

has only one option:

```
--install-dir=DIR, -d DIR
```

The parent directory where the ``.egg-info`` directory will be placed. Defaults to the same as the `--install-dir` option specified for the `install_lib` command, which is usually the system `site-packages` directory.

This command assumes that the `egg_info` command has been given valid options via the command line or `setup.cfg`, as it will invoke the `egg_info` command and use its options to locate the project's source ``.egg-info`` directory.

```
.. _rotate:
```

```
rotate - Delete outdated distribution files
```

```
=====
```

As you develop new versions of your project, your distribution (`dist`) directory will gradually fill up with older source and/or binary distribution files. The `rotate` command lets you automatically clean these up, keeping only the N most-recently modified files matching a given pattern.

```
--match=PATTERNLIST, -m PATTERNLIST
```

Comma-separated list of glob patterns to match. This option is *required*. The project name and `-*` is prepended to the supplied patterns, in order to match only distributions belonging to the current project (in case you have a shared distribution directory for multiple projects). Typically, you will use a glob pattern like `.zip` or `.egg` to match files of the specified type. Note that each supplied pattern is treated as a distinct group of files for purposes of selecting files to delete.

```
--keep=COUNT, -k COUNT
```

Number of matching distributions to keep. For each group of files identified by a pattern specified with the `--match` option, delete all but the COUNT most-recently-modified files in that group. This option is *required*.

```
--dist-dir=DIR, -d DIR
```

Directory where the distributions are. This defaults to the value of the `bdist` command's `--dist-dir` option, which will usually be the project's `dist` subdirectory.

**Example 1:** Delete all `.tar.gz` files from the distribution directory, except for the 3 most recently modified ones::

```
setup.py rotate --match=.tar.gz --keep=3
```

**Example 2**: Delete all Python 2.3 or Python 2.4 eggs from the distribution directory, except the most recently modified one for each Python version::

```
setup.py rotate --match=-py2.3*.egg,-py2.4*.egg --keep=1
```

.. \_saveopts:

```saveopts``` - Save used options to a configuration file

=====

Finding and editing ```distutils``` configuration files can be a pain, especially since you also have to translate the configuration options from command-line form to the proper configuration file format. You can avoid these hassles by using the ```saveopts``` command. Just add it to the command line to save the options you used. For example, this command builds the project using the ```mingw32``` C compiler, then saves the `--compiler` setting as the default for future builds (even those run implicitly by the ```install``` command)::

```
setup.py build --compiler=mingw32 saveopts
```

The ```saveopts``` command saves all options for every command specified on the command line to the project's local ```setup.cfg``` file, unless you use one of the ```configuration file options``` to change where the options are saved. For example, this command does the same as above, but saves the compiler setting to the site-wide (global) `distutils` configuration::

```
setup.py build --compiler=mingw32 saveopts -g
```

Note that it doesn't matter where you place the ```saveopts``` command on the command line; it will still save all the options specified for all commands. For example, this is another valid way to spell the last example::

```
setup.py saveopts -g build --compiler=mingw32
```

Note, however, that all of the commands specified are always run, regardless of where ```saveopts``` is placed on the command line.

### Configuration File Options

Normally, settings such as options and aliases are saved to the project's local ```setup.cfg``` file. But you can override this and save them to the global or per-user configuration files, or to a manually-specified filename.

```--global-config, -g```

Save settings to the global `distutils.cfg` file inside the `distutils` package directory. You must have write access to that directory to use this option. You also can't combine this option with `-u` or `-f`.

`--user-config, -u`

Save settings to the current user's `~/pydistutils.cfg` (POSIX) or `~/pydistutils.cfg` (Windows) file. You can't combine this option with `-g` or `-f`.

`--filename=FILENAME, -f FILENAME`

Save settings to the specified configuration file to use. You can't combine this option with `-g` or `-u`. Note that if you specify a non-standard filename, the `distutils` and `setuptools` will not use the file's contents. This option is mainly included for use in testing.

These options are used by other `setuptools` commands that modify configuration files, such as the `alias_` and `setopt_` commands.

`.._setopt:`

`setopt` - Set a distutils or setuptools option in a config file

=====

This command is mainly for use by scripts, but it can also be used as a quick and dirty way to change a distutils configuration option without having to remember what file the options are in and then open an editor.

**Example 1**. Set the default C compiler to `mingw32` (using long option names)::

```
setup.py setopt --command=build --option=compiler --set-value=mingw32
```

**Example 2**. Remove any setting for the distutils default package installation directory (short option names)::

```
setup.py setopt -c install -o install_lib -r
```

Options for the `setopt` command:

`--command=COMMAND, -c COMMAND`

Command to set the option for. This option is required.

`--option=OPTION, -o OPTION`

The name of the option to set. This option is required.

`--set-value=VALUE, -s VALUE`

The value to set the option to. Not needed if `--r` or `--remove` is set.

`--remove, -r`

Remove (unset) the option, instead of setting it.

In addition to the above options, you may use any of the `configuration file options`_` (listed under the saveopts`_` command, above) to determine which distutils configuration file the option will be added to (or removed from).`

`.. _test:`

`test` - Build package and run a unittest suite`

=====

When doing test-driven development, or running automated builds that need testing before they are deployed for downloading or use, it's often useful to be able to run a project's unit tests without actually deploying the project anywhere, even using the `develop` command. The test` command runs a project's unit tests without actually deploying it, by temporarily putting the project's source on sys.path`, after first running build_ext -i` and egg_info` to ensure that any C extensions and project metadata are up-to-date.`

To use this command, your project's tests must be wrapped in a `unittest` test suite by either a function, a TestCase` class or method, or a module or package containing TestCase` classes. If the named suite is a module, and the module has an additional_tests()` function, it is called and the result (which must be a unittest.TestSuite`) is added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite. (Note: if your project specifies a test_loader`, the rules for processing the chosen test_suite` may differ; see the test_loader`_` documentation for more details.)`

Note that many test systems including `doctest` support wrapping their non-unittest` tests in TestSuite` objects. So, if you are using a test package that does not support this, we suggest you encourage its developers to implement test suite support, as this is a convenient and standard way to aggregate a collection of tests to be run under a common test harness.`

By default, tests will be run in the "verbose" mode of the `unittest` package's text test runner, but you can get the "quiet" mode (just dots) if you supply the -q` or --quiet` option, either as a global option to the setup script (e.g. setup.py -q test`) or as an option for the test` command itself (e.g. setup.py test -q`). There is one other option available:`

```
--test-suite=NAME, -s NAME
```

Specify the test suite (or module, class, or method) to be run (e.g. `some_module.test_suite`). The default for this option can be set by giving a `test_suite` argument to the `setup()` function, e.g.:

```
setup(  
    # ...  
    test_suite = "my_package.tests.test_all"  
)
```

If you did not set a `test_suite` in your `setup()` call, and do not provide a `--test-suite` option, an error will occur.

```
.. _upload:
```

```
upload - Upload source and/or egg distributions to PyPI
```

PyPI now supports uploading project files for redistribution; uploaded files are easily found by EasyInstall, even if you don't have download links on your project's home page.

Although Python 2.5 will support uploading all types of distributions to PyPI, `setuptools` only supports source distributions and eggs. (This is partly because PyPI's upload support is currently broken for various other file types.) To upload files, you must include the `upload` command *after* the `sdist` or `bdist_egg` commands on the setup command line. For example::

```
setup.py bdist_egg upload    # create an egg and upload it  
setup.py sdist upload       # create a source distro and upload it  
setup.py sdist bdist_egg upload # create and upload both
```

Note that to upload files for a project, the corresponding version must already be registered with PyPI, using the `distutils register` command. It's usually a good idea to include the `register` command at the start of the command line, so that any registration problems can be found and fixed before building and uploading the distributions, e.g.:

```
setup.py register sdist bdist_egg upload
```

This will update PyPI's listing for your project's current version.

Note, by the way, that the metadata in your `setup()` call determines what will be listed in PyPI for your package. Try to fill out as much of it as possible, as it will save you a lot of trouble manually adding and updating your PyPI listings. Just put it in `setup.py` and use the `register`



command to keep PyPI up to date.

The `upload` command has a few options worth noting:

`--sign, -s`

Sign each uploaded file using GPG (GNU Privacy Guard). The `gpg` program must be available for execution on the system `PATH`.

`--identity=NAME, -i NAME`

Specify the identity or key name for GPG to use when signing. The value of this option will be passed through the `--local-user` option of the `gpg` program.

`--show-response`

Display the full response text from server; this is useful for debugging PyPI problems.

`--repository=URL, -r URL`

The URL of the repository to upload to. Defaults to <https://pypi.python.org/pypi> (i.e., the main PyPI installation).

.. `_upload_docs`:

`upload_docs` - Upload package documentation to PyPI

=====

PyPI now supports uploading project documentation to the dedicated URL <https://pythonhosted.org/<project>/>.

The `upload_docs` command will create the necessary zip file out of a documentation directory and will post to the repository.

Note that to upload the documentation of a project, the corresponding version must already be registered with PyPI, using the `distutils register` command -- just like the `upload` command.

Assuming there is an `Example` project with documentation in the subdirectory `docs`, e.g.:

```
Example/
|-- example.py
|-- setup.cfg
|-- setup.py
|-- docs
| |-- build
| | |-- html
| | | |-- index.html
| | | |-- tips_tricks.html
```

```
| |-- conf.py
| |-- index.txt
| `-- tips_tricks.txt
```

You can simply pass the documentation directory path to the `upload_docs` command::

```
python setup.py upload_docs --upload-dir=docs/build/html
```

If no `--upload-dir` is given, `upload_docs` will attempt to run the `build_sphinx` command to generate uploadable documentation.

For the command to become available, Sphinx <<http://sphinx.pocoo.org/>> must be installed in the same environment as distribute.

As with other `setuptools`-based commands, you can define useful defaults in the `setup.cfg` of your Python project, e.g.:

```
.. code-block:: ini
```

```
[upload_docs]
upload-dir = docs/build/html
```

The `upload_docs` command has the following options:

```
--upload-dir
```

The directory to be uploaded to the repository.

```
--show-response
```

Display the full response text from server; this is useful for debugging PyPI problems.

```
--repository=URL, -r URL
```

The URL of the repository to upload to. Defaults to <https://pypi.python.org/pypi> (i.e., the main PyPI installation).

---

## Extending and Reusing Setuptools

---

### Creating `distutils` Extensions

---

It can be hard to add new commands or setup arguments to the `distutils`. But the `setuptools` package makes it a bit easier, by allowing you to distribute a `distutils` extension as a separate project, and then have projects that need the extension just refer to it in their `setup_requires` argument.

With `setuptools`, your distutils extension projects can hook in new commands and `setup()` arguments just by defining "entry points". These are mappings from command or argument names to a specification of where to import a handler from. (See the section on `Dynamic Discovery of Services and Plugins`\_ above for some more background on entry points.)

### Adding Commands

-----

You can add new `setup` commands by defining entry points in the `distutils.commands` group. For example, if you wanted to add a `foo` command, you might add something like this to your distutils extension project's setup script::

```
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
    },
)
```

(Assuming, of course, that the `foo` class in `mypackage.some_module` is a `setuptools.Command` subclass.)

Once a project containing such entry points has been activated on `sys.path`, (e.g. by running "install" or "develop" with a site-packages installation directory) the command(s) will be available to any `setuptools`-based setup scripts. It is not necessary to use the `--command-packages` option or to monkeypatch the `distutils.command` package to install your commands; `setuptools` automatically adds a wrapper to the distutils to search for entry points in the active distributions on `sys.path`. In fact, this is how `setuptools`' own commands are installed: the `setuptools` project's setup script defines entry points for them!

### Adding `setup()` Arguments

-----

Sometimes, your commands may need additional arguments to the `setup()` call. You can enable this by defining entry points in the `distutils.setup_keywords` group. For example, if you wanted a `setup()` argument called `bar_baz`, you might add something like this to your distutils extension project's setup script::

```
setup(
```

```

# ...
entry_points = {
    "distutils.commands": [
        "foo = mypackage.some_module:foo",
    ],
    "distutils.setup_keywords": [
        "bar_baz = mypackage.some_module:validate_bar_baz",
    ],
},
)

```

The idea here is that the entry point defines a function that will be called to validate the `setup()` argument, if it's supplied. The `Distribution` object will have the initial value of the attribute set to `None`, and the validation function will only be called if the `setup()` call sets it to a non-None value. Here's an example validation function::

```

def assert_bool(dist, attr, value):
    """Verify that value is True, False, 0, or 1"""
    if bool(value) != value:
        raise DistutilsSetupError(
            "%r must be a boolean value (got %r)" % (attr,value)
        )

```

Your function should accept three arguments: the `Distribution` object, the attribute name, and the attribute value. It should raise a `DistutilsSetupError` (from the `distutils.errors` module) if the argument is invalid. Remember, your function will only be called with non-None values, and the default value of arguments defined this way is always None. So, your commands should always be prepared for the possibility that the attribute will be `None` when they access it later.

If more than one active distribution defines an entry point for the same `setup()` argument, *all* of them will be called. This allows multiple distutils extensions to define a common argument, as long as they agree on what values of that argument are valid.

Also note that as with commands, it is not necessary to subclass or monkeypatch the distutils `Distribution` class in order to add your arguments; it is sufficient to define the entry points in your extension, as long as any setup script using your extension lists your project in its `setup_requires` argument.

Adding new EGG-INFO Files

-----

Some extensible applications or frameworks may want to allow third parties to

develop plugins with application or framework-specific metadata included in the plugins' EGG-INFO directory, for easy access via the `pkg_resources` metadata API. The easiest way to allow this is to create a distutils extension to be used from the plugin projects' setup scripts (via `setup_requires`) that defines a new setup keyword, and then uses that data to write an EGG-INFO file when the `egg_info` command is run.

The `egg_info` command looks for extension points in an `egg_info.writers` group, and calls them to write the files. Here's a simple example of a distutils extension defining a setup argument `foo_bar`, which is a list of lines that will be written to `foo_bar.txt` in the EGG-INFO directory of any project that uses the argument::

```
setup(
    # ...
    entry_points = {
        "distutils.setup_keywords": [
            "foo_bar = setuptools.dist:assert_string_list",
        ],
        "egg_info.writers": [
            "foo_bar.txt = setuptools.command.egg_info:write_arg",
        ],
    },
)
```

This simple example makes use of two utility functions defined by `setuptools` for its own use: a routine to validate that a setup keyword is a sequence of strings, and another one that looks up a setup argument and writes it to a file. Here's what the writer utility looks like::

```
def write_arg(cmd, basename, filename):
    argname = os.path.splitext(basename)[0]
    value = getattr(cmd.distribution, argname, None)
    if value is not None:
        value = '\n'.join(value)+'\n'
    cmd.write_or_delete_file(argname, filename, value)
```

As you can see, `egg_info.writers` entry points must be a function taking three arguments: a `egg_info` command instance, the basename of the file to write (e.g. `foo_bar.txt`), and the actual full filename that should be written to.

In general, writer functions should honor the command object's `dry_run` setting when writing files, and use the `distutils.log` object to do any console output. The easiest way to conform to this requirement is to use the `cmd` object's `write_file()`, `delete_file()`, and `write_or_delete_file()` methods exclusively for your file operations. See those methods' docstrings for more details.

## Adding Support for Other Revision Control Systems

-----

If you would like to create a plugin for ``setuptools`` to find files in other source control systems besides CVS and Subversion, you can do so by adding an entry point to the ``setuptools.file\_finders`` group. The entry point should be a function accepting a single directory name, and should yield all the filenames within that directory (and any subdirectories thereof) that are under revision control.

For example, if you were going to create a plugin for a revision control system called "foobar", you would write a function something like this:

```
.. code-block:: python

def find_files_for_foobar(dirname):
    # loop to yield paths that start with `dirname`
```

And you would register it in a setup script using something like this::

```
entry_points = {
    "setuptools.file_finders": [
        "foobar = my_foobar_module:find_files_for_foobar"
    ]
}
```

Then, anyone who wants to use your plugin can simply install it, and their local setuptools installation will be able to find the necessary files.

It is not necessary to distribute source control plugins with projects that simply use the other source control system, or to specify the plugins in ``setup\_requires``. When you create a source distribution with the ``sdist`` command, setuptools automatically records what files were found in the ``SOURCES.txt`` file. That way, recipients of source distributions don't need to have revision control at all. However, if someone is working on a package by checking out with that system, they will need the same plugin(s) that the original author is using.

A few important points for writing revision control file finders:

- \* Your finder function MUST return relative paths, created by appending to the passed-in directory name. Absolute paths are NOT allowed, nor are relative paths that reference a parent directory of the passed-in directory.

- \* Your finder function MUST accept an empty string as the directory name, meaning the current directory. You MUST NOT convert this to a dot; just

yield relative paths. So, yielding a subdirectory named ``some/dir`` under the current directory should NOT be rendered as ``./some/dir`` or ``~/somewhere/some/dir``, but *\*always\** as simply ``some/dir``

\* Your finder function SHOULD NOT raise any errors, and SHOULD deal gracefully with the absence of needed programs (i.e., ones belonging to the revision control system itself. It *\*may\**, however, use ``distutils.log.warn()`` to inform the user of the missing program(s).

#### Subclassing ``Command``

-----

Sorry, this section isn't written yet, and neither is a lot of what's below this point, except for the change log. You might want to `subscribe to changes in this page <setuptools?action=subscribe>`\_ to see when new documentation is added or updated.

XXX

#### Reusing ``setuptools`` Code

=====

``ez\_setup``

-----

XXX

``setuptools.archive\_util``

-----

XXX

``setuptools.sandbox``

-----

XXX

``setuptools.package\_index``

-----

XXX

## Mailing List and Bug Tracker

=====

Please use the `distutils-sig mailing list`\_ for questions and discussion about setuptools, and the `setuptools bug tracker`\_ ONLY for issues you have confirmed via the list are actual bugs, and which you have reduced to a minimal set of steps to reproduce.

.. \_distutils-sig mailing list: <http://mail.python.org/pipermail/distutils-sig/>  
.. \_setuptools bug tracker: <https://bitbucket.org/pypa/setuptools/>

Found in path(s):

\* /opt/cola/permits/1155085362\_1618931365.18/0/setuptools-12-0-5-tar-gz/setuptools-12.0.5/docs/setuptools.txt

## 1.71 pexpect 4.7.0

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## 1.74 docker-py 0.4.0

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