
py-deps Documentation

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About py-dep

The py-dep provides parsing the dependencies of Python packages and generating the metadata for graph.

The graph data is for NetworkX, Graphviz, blockdiag, Linkdraw, etc.

1.1 Status

1.2 Requirements

- Python 2.7 over or Python 3.3 over or PyPy 2.4.0 over
- pip 1.5.6 or 6.1.1 over
- wheel 0.24.0 over
- NetworkX 1.9 over
- pylibmc 1.4.3 over (optional)

1.3 Features

- Generating Linkdraw data (JSON and decoded JSON).
- Generating Networkx DiGraph object data.
- Cache the parsed dependencies.
- Searching packages from PyPI.

1.4 Known issue with the packages that depends on py-deps

The packages that depend on py-deps; after that called “X” package, there is a known issue that fails to install using the pip. This problem is caused by py-deps is a package that depends on the pip and wheel. When you install the “X” in the pip following exception occurs.:

```
The AssertionError: Multiple .dist-info directories occurs, because py-deps depends on pip, wheel.
```

1.4.1 Workaround

The workaround for this problem is to use `setuptools` instead of `pip`.

- You should use the `easy_install` or `pip install --no-use-wheel` command when you are installing the X from PyPI.
- Use the `python setup.py install` when you install from the source tree , such as repository.
- When you use the `Tox` in unit test , you should specify `install_command` in `[testenv]` section of `tox.ini`:

```
[testenv]
install_command = easy_install {opts} {packages}
```

See also `pgraph` is already corresponding to the above-mentioned problems.

Basic usage

py-deps provides parsing the Python deps and generating graph data.

2.1 Search packages

Search packages from PyPI.:

```
$ python
>>> from py_deps.deps import search
>>> search('deps')
[{'_pypi_ordering': False,
  'name': 'anybox.recipe.sysdeps',
  'summary': 'A buildout recipe to check system dependencies',
  'version': '0.5'},
 {'_pypi_ordering': False,
  'name': 'appdynamics-bindeps-linux-x64',
  'summary': 'Dependencies for AppDynamics Python agent',
  'version': '4.0.5.0'},
 {'_pypi_ordering': False,
  'name': 'appdynamics-bindeps-linux-x86',
  'summary': 'Dependencies for AppDynamics Python agent',
  'version': '4.0.5.0'},
 {'_pypi_ordering': False,
  'name': 'appdynamics-bindeps-osx-x64',
  'summary': 'Dependencies for AppDynamics Python agent',
  'version': '4.0.5.0'},
 {'_pypi_ordering': False,
  'name': 'deps',
  'summary': 'deps discovers your Python dependencies',
  'version': '0.1.0'},
 {'_pypi_ordering': False,
  'name': 'gtkeggdeps',
  'summary': 'Interactive egg dependency browser',
  'version': '0.0.7'},
 {'_pypi_ordering': False,
  'name': 'htmldeps',
  'summary': 'Expand CSS and javascript dependency links in HTML',
  'version': '1.2.1'},
 {'_pypi_ordering': False,
  'name': 'py-deps',
  'summary': 'parsing the Python deps and generating graph data',
  'version': '0.3.0'},
```

```
{'__pypi_ordering': False,
'name': 'pydeps',
'summary': 'Display module dependencies',
'version': '1.2.1'},
{'__pypi_ordering': False,
'name': 'runestone-test-deps',
'summary': 'This is dependencies for RSI',
'version': '0.1'},
{'__pypi_ordering': False,
'name': 'tl.eggdeps',
'summary': 'Compute a dependency graph between active Python eggs.',
'version': '0.4'},
{'__pypi_ordering': False,
'name': 'tt.eggdeps',
'summary': 'Compute a dependency graph between active Python eggs.',
'version': '0.5'}]
```

2.2 Show latest version

Retrieve latest package from PyPI.:

```
$ python
>>> from py_deps.deps import latest_version
>>> latest_version('deps')
'0.1.0'
```

2.3 Initialize

Cache the parsed dependencies into the `py-deps.pickle` on current working directory. This file format is `pickle`.:

```
$ python
>>> from py_deps import Package
>>> pkg = Package('py-deps')
```

`py-deps` retrieve latest version from PyPI without `version` argument as above. Specify version use `version` argument.:

```
>>> pkg = Package('py-deps', version='0.3.0')
>>> pkg.version
0.3.0
```

2.3.1 Change cache file

Use `cache_name` argument.:

```
>>> pkg = Package('py-deps', cache_name='some-cache.name')
```

2.3.2 Override cache forcedly

Use `update_force` argument. (default: `False`):

```
>>> pkg = Package('py-deps', update_force=True)
```

2.3.3 Changes the cache backend to Memcached

Installing libmemcached-dev package and pylibmc.:

```
$ sudo apt-get install libmemcached-dev
$ ./path/to/venv/bin/activate
(venv)$ cd /path/to/py-deps
(venv)$ python setup.py memcache
```

Use servers argument. The argument syntax follows pylibmc.Client.:

```
>>> pkg = Package('py-deps', servers=['127.0.0.1:11211'])
```

2.4 Generate rendering data

Supports follows currently.

- pretty print
- Linkdraw

2.4.1 Pretty print

```
>>> print(pkg.draw())
py-deps -> [Sphinx, setuptools, pip, wheel, tox]
setuptools -> [certifi, wincertstore, setuptools[ssl], pytest]
pip -> [pytest, virtualenv, scripttest, mock, pytest, virtualenv,
scripttest, mock]
wheel -> [ed25519lll, keyring, argparse, pyxdg, jsonschema, pytest,
coverage, pytest-cov]
>>>
```

2.4.2 Linkdraw

```
>>> import json
>>> json.loads(pkg.draw('linkdraw'))
{u'descr': u'py-deps dependencies',
 u'lines': [{u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'py-deps', u'target': u'Sphinx', u'width': u'1'},
 {u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'py-deps', u'target': u'setuptools', u'width': u'1'},
 {u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'py-deps', u'target': u'pip', u'width': u'1'},
 {u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'py-deps', u'target': u'wheel', u'width': u'1'},
 {u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'py-deps', u'target': u'tox', u'width': u'1'},
 {u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'setuptools', u'target': u'certifi', u'width': u'1'},
 {u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'certifi', u'target': u'virtualenv', u'width': u'1'},
 {u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'virtualenv', u'target': u'pytest', u'width': u'1'},
 {u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'pytest', u'target': u'argparse', u'width': u'1'},
 {u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'argparse', u'target': u'jsonschema', u'width': u'1'},
 {u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'jsonschema', u'target': u'coverage', u'width': u'1'},
 {u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'coverage', u'target': u'pyxdg', u'width': u'1'},
 {u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'pyxdg', u'target': u'pytest-cov', u'width': u'1'},
 {u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'pytest-cov', u'target': u'wheel', u'width': u'1'}]
```

```
u'source': u'setuptools', u'target': u'wincertstore', u'width': u'1'},
{u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'setuptools', u'target': u'setuptools____ssl',
 u'width': u'1'},
{u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'setuptools', u'target': u'pytest', u'width': u'1'},
{u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'pip', u'target': u'pytest', u'width': u'1'},
{u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'pip', u'target': u'virtualenv', u'width': u'1'},
{u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'pip', u'target': u'scripttest', u'width': u'1'},
{u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'pip', u'target': u'pytest', u'width': u'1'},
{u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'pip', u'target': u'mock', u'width': u'1'},
{u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'pip', u'target': u'pytest', u'width': u'1'},
{u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'pip', u'target': u'virtualenv', u'width': u'1'},
{u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'pip', u'target': u'scripttest', u'width': u'1'},
{u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'pip', u'target': u'pytest', u'width': u'1'},
{u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'pip', u'target': u'mock', u'width': u'1'},
{u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'wheel', u'target': u'ed25519ll', u'width': u'1'},
{u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'wheel', u'target': u'keyring', u'width': u'1'},
{u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'wheel', u'target': u'argparse', u'width': u'1'},
{u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'wheel', u'target': u'pyxdg', u'width': u'1'},
{u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'wheel', u'target': u'jsonschema', u'width': u'1'},
{u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'wheel', u'target': u'pytest', u'width': u'1'},
{u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'wheel', u'target': u'coverage', u'width': u'1'},
{u'color': u'#5F9EA0', u'descr': u'->', u'link': u '',
 u'source': u'wheel', u'target': u'pytest-cov', u'width': u'1']},
u'nodes': [{u'color': u'', u'link': u'https://github.com/mkouhei/py-deps',
 u'name': u'py-deps', u'r': u'6'},
{u'color': u'#5F9EA0', u'link': u'', u'name': u'Sphinx', u'r': u'6'},
{u'color': u'#5F9EA0', u'link': u'https://bitbucket.org/pypa/setuptools',
 u'name': u'setuptools', u'r': u'6'},
{u'color': u'#5F9EA0', u'link': u'https://pip.pypa.io/',
 u'name': u'pip', u'r': u'6'},
{u'color': u'#5F9EA0', u'link': u'http://bitbucket.org/pypa/wheel/',
 u'name': u'wheel', u'r': u'6'},
{u'color': u'#5F9EA0', u'link': u'', u'name': u'tox', u'r': u'6'},
{u'color': u'#5F9EA0', u'link': u'', u'name': u'certifi', u'r': u'6'},
{u'color': u'#5F9EA0', u'link': u'', u'name': u'wincertstore',
 u'r': u'6'},
{u'color': u'#5F9EA0', u'link': u'', u'name': u'setuptools____ssl',
 u'r': u'6'},
{u'color': u'#5F9EA0', u'link': u'', u'name': u'pytest', u'r': u'6'},
{u'color': u'#5F9EA0', u'link': u'', u'name': u'versioneer', u'r': u'6'},
{u'color': u'#5F9EA0', u'link': u'', u'name': u'wheel', u'r': u'6'},
{u'color': u'#5F9EA0', u'link': u'', u'name': u'wheelhouse', u'r': u'6'},
{u'color': u'#5F9EA0', u'link': u'', u'name': u'wheelhouse', u'r': u'6'}]
```

```
{u'color': u'#5F9EA0', u'link': u'', u'name': u'keyring', u'r': u'6'},
{u'color': u'#5F9EA0', u'link': u'', u'name': u'argparse', u'r': u'6'},
{u'color': u'#5F9EA0', u'link': u'', u'name': u'pyxdg', u'r': u'6'},
{u'color': u'#5F9EA0', u'link': u'', u'name': u'jsonschema', u'r': u'6'},
{u'color': u'#5F9EA0', u'link': u'', u'name': u'coverage', u'r': u'6'},
{u'color': u'#5F9EA0', u'link': u'', u'name': u'pytest-cov',
 u'r': u'6'}],
u'time': u'2015-05-08T03:52:59.542732'}
```

See also [How to use linkdraw](#).

2.4.3 NetworkX

```
>>> pkg.draw('networkx')
>>> <networkx.classes.digraph.DiGraph at 0x7fbe2311dbd0>
```

2.5 Check cache

Stores parsed dependency metadata to pickles data file. The file name is `py-deps.pickle` in default.

Listing cached data with the `list_data` method of Container::

```
>>> from py_deps import Container
>>> Container().list_data()
{'py-deps': [py-deps, setuptools, pip, wheel, networkx, decorator],
 (snip)}
```

Read the cached package with `read_data` method of Container. This method returns `Package.traced_chain`.

```
>>> Container().read_data(('py-deps', '0.3.0'))
[py-deps, setuptools, pip, wheel, networkx, decorator]
```

References

py_deps.deps module.

class py_deps.deps.Depth

Bases: object

Cache of the dependency level.

get (pkg_name)

Get depth of package.

Return type int

Returns dependency level.

Parameters **pkg_name** (str) – package name.

parse (pkgs, pkg_name)

Parse dependency depth.

Parameters

- **pkgs** (list) – package nodes list.

- **pkg_name** (str) – package name.

set (pkg_name, depth)

Set depth of package.

Parameters

- **pkg_name** (str) – package name

- **depth** (int) – dependency level

class py_deps.deps.Node (name, version=None, url=None)

Bases: object

Node object class.

add_targets (nodes)

Add targets.

Parameters **nodes** (list) – nodes list

add_test_targets (nodes)

Add test targets.

Parameters **nodes** (list) – nodes list for testing.

remove_targets (*nodes)

Remove targets.

Parameters ***nodes** (*list) – nodes list

update_depth (depth)

set dependency level.

Parameters **depth** (int) – dependency level.

class `py_deps.deps.Package` (*name*, *version=None*, *update_force=False*, ***kwargs*)

Bases: `object`

Package class.

cleanup (*alldir=False*)

Cleanup temporary build directory.

Parameters **alldir** (bool) – Remove all temporary directories. (default: False)

Return type None

draw (*draw_type=None*, *decode_type=''*, *disable_time=False*, *disable_descr=False*, *link_prefix=None*)

Generate drawing data.

Parameters

- **draw_type** (str) – [dot|blockdiag|linkdraw]
- **decode_type** (str) – ['json|linkdraw]

trace_chain (*pkg_name=None*)

Trace dependency chain.

Parameters **pkg_name** (str) – package name

Return type None

class `py_deps.deps.Target` (*nodename*, *specs*, *extras=False*)

Bases: `py_deps.deps.Node`

Target objects.

add_targets (*nodes*)

Add targets.

Parameters **nodes** (list) – nodes list

add_test_targets (*nodes*)

Add test targets.

Parameters **nodes** (list) – nodes list for testing.

remove_targets (*nodes)

Remove targets.

Parameters ***nodes** (*list) – nodes list

update_depth (depth)

set dependency level.

Parameters **depth** (int) – dependency level.

`py_deps.deps.latest_version` (*pkg_name*)

retrieve latest version.

Return type str

Returns latest version

Parameters **pkg_name** (*str*) – package name.

`py_deps.deps.search(pkg_name, exactly=False)`

Search package.

Return type list

Returns search packages

Parameters

- **pkg_name** (*str*) – package name.

- **exactly** (*bool*) – exactly match only.

`py_deps.deps.u2h(name)`

Change underscore to hyphen of package name.

Return type str

Returns string replaced underscore with hyphen

Parameters **name** (*str*) – package name

`py_deps.graph` module.

class `py_deps.graph.Graph` (*chain_data*, *link_prefix=None*)

Bases: `object`

Graph data generate abstract class.

count_depth()

Count each depth.

generate_nodes()

Generate nodes data.

class `py_deps.graph.Linkdraw` (*chain_data*, *link_prefix=None*)

Bases: `py_deps.graph.Graph`

Linkdraw object class.

count_depth()

Count each depth.

disable_descr()

Disable description.

disable_time()

Disable time.

generate_data()

Generate Linkdraw data.

generate_edges()

Generate edges data.

generate_nodes()

Generate nodes data.

generate_position()

Generate position.

level 0 is the base depth, that is one only.

Nodes depth images is follows.:

```
0---1---2---3
|     `--2---3---4---5
|     `---3
|         `---3---4
1---2---3
    `---3
```

base position 0

level distance the value that the smaller of the SVG width and height devided by the depth level.

node disstance the circumference drawn by the same level nodes devided by the num same level.

depth level len(self.count_depth().key())

deepest level self.count_depth().keys() [-1]

num same level self.count_depth().get(int:'some level')

class py_deps.graph.**Metadata**

Bases: object

Metadata object class.

class py_deps.graph.**Networkx** (chain_data, link_prefix=None)

Bases: *py_deps.graph.Graph*

Networkx object class.

count_depth()

Count each depth.

generate_data()

Generate networkx graph data.

generate_edges()

Generate edges data.

generate_nodes()

Generate nodes data.

py_deps.graph.color(depth)

color by depth level.

Return type str

Returns hex color code based blue.

Parameters **depth** (int) – dependency level

py_deps.graph.pretty_print(chain_data)

Pretty print on terminal.

Parameters **chain_data** (list) – List of *deps.Node*

py_deps.graph.router(chain_data, draw_type=None, decode_type=''', disable_time=False, disable_descr=False, link_prefix=None)

Routing drawing tool.

py_deps.cache module.

```
class py_deps.cache.Container(cache_name=None)
Bases: object
```

Package container class.

```
list_data()
```

Return dictionary stored package metadata.

Return type dict

Returns packages metadata

```
read_data(key)
```

Read traced_chain data.

Return type list

Returns dependency chain list

Parameters **key** (tuple) – package name, version

```
store_data(key, data)
```

store traced_chain data.

```
class py_deps.cache.Memcached(servers=None, username=None, password=None, behaviors=None)
```

Bases: [py_deps.cache.Container](#)

Cache backend is Memecached.

```
list_data()
```

Return dictionary stored package metadata.

Return type dict

Returns packages metadata

```
read_data(key)
```

Read traced_chain data.

Return type list

Returns dependency chain list

Parameters **key** (tuple) – package name, version

```
store_data(key, data)
```

Store traced_chain data.

Parameters

- **key** (tuple) – package name, version
- **data** (list) – traced dependency chain data

```
class py_deps.cache.Pickle(cache_name=None)
```

Bases: [py_deps.cache.Container](#)

Cache backend is Pickle.

```
list_data()
```

Return dictionary stored package metadata.

Return type dict

Returns packages metadata

```
load_cache()
```

Load cache file.

read_data (*key*)

Read traced_chain data.

Return type list

Returns dependency chain list

Parameters **key** (*tuple*) – package name, version

save_cache ()

Save cache file.

store_data (*key*, *data*)

Store traced_chain data.

Parameters

- **key** (*tuple*) – package name, version

- **data** (*list*) – traced dependency chain data

`py_deps.cache.backend(**kwargs)`

Specify cache backend.

Return type `py_deps.cache.Container`

Returns Pickle object or Memcached object.

Parameters ****kwargs** – parameters

servers Memcached servers (required in Memcached)

Required when Memcached. Using Pickle in default without **servers**.

username Memcached SASL username (optional)

password Memcached SASL password (optional)

cache_name Pickle filename (default, optional)

`py_deps.exceptions` module.

exception `py_deps.exceptions.BackendFailure` (*message=None*)

Bases: `py_deps.exceptions.Error`

PyPI service down.

with_traceback ()

Exception.with_traceback(tb) – set self.__traceback__ to tb and return self.

exception `py_deps.exceptions.BrokenPackage` (*message=None*)

Bases: `py_deps.exceptions.Error`

BrokenPackage.

with_traceback ()

Exception.with_traceback(tb) – set self.__traceback__ to tb and return self.

exception `py_deps.exceptions.Error` (*message=None*)

Bases: Exception

Base error class.

with_traceback ()

Exception.with_traceback(tb) – set self.__traceback__ to tb and return self.

exception `py_deps.exceptions.InvalidMetadata` (*message=None*)

Bases: `py_deps.exceptions.Error`

Invalid package metadata.

with_traceback()

Exception.with_traceback(tb) – set self.__traceback__ to tb and return self.

exception `py_deps.exceptions.NotFound` (*message=None*)

Bases: `py_deps.exceptions.Error`

Not Found.

with_traceback()

Exception.with_traceback(tb) – set self.__traceback__ to tb and return self.

Design notes

4.1 Memo

purpose	setup.py	Egg	wheel (metadata.json)
requires	install_requires	requires.txt	run_requires.requires
no PyPI	dependency_links	dependency_links.txt	
optional	extras_require		extras
extra resource			run_requires.extra
test			test_requires.requires

History

5.1 0.5.5 (2015-08-19)

- Adds TimeoutError, ConnectionRefusedError / socket.error exceptions.
- Adds error handling the PyPI service down.
- Changes Sphinx theme to sphinx_rtd_theme.
- Adds counter of the each depth.

5.2 0.5.4 (2015-07-22)

- Adds latest_version function.
- Adds link_prefix for overriding node link.

5.3 0.5.3 (2015-07-19)

- Adds exception InvalidMetadata type.

5.4 0.5.2 (2015-07-15)

- Fixes duplicated line of linkdraw.
- Changes linkdraw colors by dependencies depth.
- Adds depth property to graph nodes.
- Adds parsing the package dependency depth.

5.5 0.5.1 (2015-07-12)

- Changes Package.search method to a function.
- Fixes infinity loop trace_chain.

- Fixes *None* redundant second argument of *dict.get()*.
- Fixes *len()* used to check if collection has items.
- Fixes old-style string formatting.

5.6 0.5.0 (2015-06-22)

- Supports memcached as the backend of cache.

5.7 0.4.6 (2015-06-11)

- Fixes not control the version of package correctly.

5.8 0.4.5 (2015-06-07)

- Adds disable time, descr for Linkdraw.

5.9 0.4.4 (2015-06-03)

- Removes debug print.

5.10 0.4.3 (2015-06-02)

- Adds JSON decoder for Linkdraw.

5.11 0.4.2 (2015-05-31)

- Fixes #7 not handling the failure of python setup egg_info.
- Adds py_deps.exceptions module.
- Adds py_deps.logger module.
- Fixes issues of DistributionNotFound, InstallationError.

5.12 0.4.1 (2015-05-28)

- Adds Container.list_data method.
- Unsupports wheel format for distribution.

5.13 0.4.0 (2015-05-20)

- Searching packages from PyPI.

5.14 0.3.0 (2015-05-12)

- Supports NetworkX DiGraph objects.
- Changes to use mock instead of pip.req.RequirementSet.prepare_files.
- Coverage 98% over.

5.15 0.2.0 (2015-05-10)

- Cache the parsed dependencies.
- Fixes setting the url of node and targets.

5.16 0.1.1 (2015-05-08)

- Fixes test data of pretty_print, linkdraw.

5.17 0.1.0 (2015-05-07)

- Supports generating linkdraw data.
- Supports pip 6.1.1 over.
- Supports wheel format for distribution.
- Adds unit tests.

5.18 0.0.1 (2015-04-29)

- First release

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