
py-deps Documentation

Release 0.1.1

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1	About py-dep	3
1.1	Status	3
1.2	Requirements	3
1.3	Features	3
2	Basic usage	5
2.1	Initialize	5
2.2	Pretty print	5
2.3	Linkdraw	5
3	References	7
4	Design notes	9
4.1	Memo	9
5	History	11
5.1	0.1.1 (2015-05-08)	11
5.2	0.1.0 (2015-05-07)	11
5.3	0.0.1 (2015-04-29)	11
6	Indices and tables	13
	Python Module Index	15

Contents:

About py-dep

The `py-dep` provides parsing the dependencies of Python packages and generating the metadata for graph. The graph data is for [Graphviz](#), [blockdiag](#), [Linkdraw](#), etc.

1.1 Status

1.2 Requirements

- Python 2.7 over or Python 3.4 over
- pip 1.5.6 or 6.1.1 over
- wheel 0.24.0 over

1.3 Features

- Generating Linkdraw data.

Basic usage

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

2.1 Initialize

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

2.2 Pretty print

```
>>> print(pkg.draw())
py-deps -> [setuptools, pip, wheel]
setuptools -> [certifi, wincertstore, setuptools[ssl], pytest]
pip -> [pytest, virtualenv, scripttest, mock, pytest,
       virtualenv, scripttest, mock]
wheel -> [ed25519ll, keyring, argparse, pyxdg, jsonschema,
         pytest, coverage, pytest-cov]
>>>
```

2.3 Linkdraw

```
>>> import json
>>> json.loads(pkg.draw('linkdraw'))
{"nodes": [
  {"color": "", "r": "6", "link": "", "name": "py-deps"},
  {"color": "#5F9EA0", "r": "6", "link": "", "name": "setuptools"},
  {"color": "#5F9EA0", "r": "6", "link": "", "name": "pip"},
  {"color": "#5F9EA0", "r": "6", "link": "", "name": "wheel"},
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  {"color": "#5F9EA0", "r": "6", "link": "", "name": "setuptools____ssl"},
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  {"color": "#5F9EA0", "r": "6", "link": "", "name": "virtualenv"},
  {"color": "#5F9EA0", "r": "6", "link": "", "name": "scripttest"},
  {"color": "#5F9EA0", "r": "6", "link": "", "name": "mock"},

```

```

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{"color": "#5F9EA0", "r": "6", "link": "", "name": "keyring"},
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"descr": "py-deps dependencies", "time": "2015-05-05T23:52:53.198572"}

```

References

py_deps.deps module.

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

Bases: `object`

Node object class.

add_targets (*nodes*)

Add targets.

add_test_targets (*nodes*)

Add test targets.

remove_targets (**nodes*)

Remove targets.

class `py_deps.deps.Package` (*name*)

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*)

Generate drawing data.

Parameters *draw_type* (*str*) – [dot|blockdiag|linkdraw]

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

Bases: `py_deps.deps.Node`

Target objects.

add_targets (*nodes*)

Add targets.

add_test_targets (*nodes*)

Add test targets.

remove_targets (**nodes*)

Remove targets.

py_deps.graph module.

class `py_deps.graph.Linkdraw` (*chain_data*)

Bases: `object`

Linkdraw data generate class.

generate_data ()

Generate Linkdraw data.

generate_lines ()

Generate lines data.

generate_nodes ()

Generate nodes data.

`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*)

Routing drawing tool.

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 0.1.1 (2015-05-08)

- Fixes test data of `pretty_print`, `linkdraw`.

5.2 0.1.0 (2015-05-07)

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

5.3 0.0.1 (2015-04-29)

- First release

Indices and tables

- `genindex`
- `modindex`
- `search`

p

`py_deps`, [5](#)
`py_deps.deps`, [7](#)
`py_deps.graph`, [7](#)

A

`add_targets()` (`py_deps.deps.Node` method), 7
`add_targets()` (`py_deps.deps.Target` method), 7
`add_test_targets()` (`py_deps.deps.Node` method), 7
`add_test_targets()` (`py_deps.deps.Target` method), 7

C

`cleanup()` (`py_deps.deps.Package` method), 7

D

`draw()` (`py_deps.deps.Package` method), 7

G

`generate_data()` (`py_deps.graph.Linkdraw` method), 8
`generate_lines()` (`py_deps.graph.Linkdraw` method), 8
`generate_nodes()` (`py_deps.graph.Linkdraw` method), 8

L

`Linkdraw` (class in `py_deps.graph`), 7

N

`Node` (class in `py_deps.deps`), 7

P

`Package` (class in `py_deps.deps`), 7
`pretty_print()` (in module `py_deps.graph`), 8
`py_deps` (module), 5
`py_deps.deps` (module), 7
`py_deps.graph` (module), 7

R

`remove_targets()` (`py_deps.deps.Node` method), 7
`remove_targets()` (`py_deps.deps.Target` method), 7
`router()` (in module `py_deps.graph`), 8

T

`Target` (class in `py_deps.deps`), 7