
pkgtools Documentation

Release 0.7.1

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pkgtools is a Python library that offers some tools to work with Python Packages. It includes two modules:

- `pkgtools.pyi`: a simple yet powerful interface to [PyPI](#) (Python Package Index)
- `pkgtools.pkg`: some package utilities, like metadata reading

news.rst

CHAPTER 1

Hello World!

```
>>> from pkgtools.pypi import PyPI
>>> pypi = PyPI()
>>> pypi.package_releases('pypol_')
['0.5']
>>> pypi.package_releases('pypol_', True)
['0.5', '0.4', '0.3', '0.2']
>>> pypol_egg = pypi.release_urls('pypol_', '0.5')[2]
>>> pypol_egg
{'has_sig': False, 'upload_time': <DateTime '20110213T09:33:07' at 97d666c>, 'comment_
↪text': '',
'python_version': '2.6', 'url': 'http://pypi.python.org/packages/2.6/p/pypol_/pypol_-
↪0.5-py2.6.egg',
'md5_digest': '20e660cef8513f35fdb0afd5390146bc', 'downloads': 46, 'filename': 'pypol_
↪-0.5-py2.6.egg',
'packagetype': 'bdist_egg', 'size': 116826}
>>> pypol_egg['python_version']
'2.6'
>>> pypol_egg.python_version
'2.6'
>>> pypol_egg.filename
'pypol_-0.5-py2.6.egg'
>>> pypol_egg.url
'http://pypi.python.org/packages/2.6/p/pypol_/pypol_-0.5-py2.6.egg'
>>> pypi = PyPIJson('pyg')
>>> pypi.retrieve()['info']['author']
'Michele Lacchia'
>>> list(pypi.find())
[('0.4',
  'pyg-0.4-py2.7.egg',
  'f8c23fe4dbb64df4235bf14fe1646c92',
  'http://pypi.python.org/packages/2.7/p/pyg/pyg-0.4-py2.7.egg'),
 ('0.4',
  'pyg-0.4.tar.gz',
  '6860ac99bf45508acdf1c751d7ce2633',
  'http://pypi.python.org/packages/source/p/pyg/pyg-0.4.tar.gz')]
```

```
>>> pypi = PyPIJson('pyg', '0.3.2')
>>> list(pypi.find())
[('0.3.2',
  'pyg-0.3.2-py2.6.egg',
  'd933b3ddc6913d5b149c7c751e836bfc',
  'http://pypi.python.org/packages/2.6/p/pyg/pyg-0.3.2-py2.6.egg'),
 ('0.3.2',
  'pyg-0.3.2.tar.gz',
  '9ce6efcf44548add6fa5540c529d33ee',
  'http://pypi.python.org/packages/source/p/pyg/pyg-0.3.2.tar.gz')]
```

```
>>> from pkgtools.pkg import Installed
>>> i = Installed('sphinx')
>>> i
<Installed[/usr/local/lib/python2.7/dist-packages/Sphinx-1.0.7.egg-info] object at_
↳176896748>
>>> i.file('entry_points.txt')
{'console_scripts': {'sphinx-build': 'sphinx:main', 'sphinx-quickstart': 'sphinx.
↳quickstart:main',
'sphinx-autogen': 'sphinx.ext.autosummary.generate:main'},
'distutils.commands': {'build_sphinx': 'sphinx.setup_command:BuildDoc'}}
>>> i.entry_points_map('console_scripts')
{'sphinx-build': 'sphinx:main', 'sphinx-quickstart': 'sphinx.quickstart:main',
'sphinx-autogen': 'sphinx.ext.autosummary.generate:main'}
>>> i.file('requires.txt')
['Pygments>=0.8', 'Jinja2>=2.2', 'docutils>=0.5']
>>> i.file('dependency_links.txt')
Traceback (most recent call last):
  File "<pyshell#8>", line 1, in <module>
    i.file('dependency_links.txt')
  File "/usr/local/lib/python2.7/dist-packages/pkgtools-0.3.1-py2.7.egg/pkgtools/pkg.
↳py", line 140, in file
    raise KeyError('This package does not have {0} file'.format(name))
KeyError: 'This package does not have dependency_links.txt file'
>>> i.pkg_info['Metadata-Version'] # Same as i.file('PKG-INFO')['Metadata-Version']
'1.0'
>>> i.pkg_info['Name']
'Sphinx'
>>> i.name
'Sphinx'
>>> i.as_req()
'Sphinx==1.0.7'
>>> i = Installed(__import__('sphinx'))
>>> i
<Installed[/usr/local/lib/python2.7/dist-packages/Sphinx-1.0.7.egg-info] object at_
↳177199596>
>>> i.files()
['requires.txt', 'PKG-INFO', 'SOURCES.txt', 'top_level.txt', 'entry_points.txt', 'zip-
↳safe']
```