
Requirements Parser

Release 0.5.0

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Requirements parser is a Python module for parsing [Pip](#) requirement files.

Requirements parser is (now) [Apache 2.0](#) licensed.

Quickstart:

```
import requirements

reqfile = """
Django>=1.5,<1.6
DocParser[PDF]==1.0.0
"""

for req in requirements.parse(reqfile):
    print(req.name, req.specs, req.extras)
```

Will output:

```
Django [('>=', '1.5'), ('<', '1.6')] []
DocParser [('==', '1.0.0')] ['pdf']
```

Contents:

USAGE

Requirements parser works very similarly to the way pip actually parses requirement files except that pip typically proceeds to install the relevant packages.

Requirements come in a variety of forms such as requirement specifiers (such as `requirements>=0.0.5`), version control URIs, other URIs and local file paths.

1.1 Parsing requirement specifiers

```
import requirements
req = "django>=1.5,<1.6"
parsed = list(requirements.parse(req))[0]
parsed.name      # django
parsed.specs     # [(>=, '1.5'), (<, '1.6')]
parsed.specifier # True
```

1.2 Parsing version control requirements

```
req = "-e git+git://github.com/toastdriven/django-  
↪haystack@259274e4127f723d76b893c87a82777f9490b960#egg=django_haystack"
parsed = list(requirements.parse(req))[0]
parsed.name      # django_haystack
parsed.vcs       # git
parsed.revision  # 259274e4127f723d76b893c87a82777f9490b960
parsed.uri       # git+git://github.com/toastdriven/django-haystack
parsed.editable  # True (because of the -e option)
```

1.3 Parsing local files

```
req = "-e path/to/project"
parsed = list(requirements.parse(req))[0]
parsed.local_file # True
parsed.path       # path/to/project
```


CHANGELOG

2.1 v0.6.0 (2024-03-27)

2.1.1 Feature

- feat: upgrade CI workflows to get them running again (#90)
- ci: update actions to latest for all workflows

Signed-off-by: Paul Horton <paul.horton@owasp.org> (``e76a3f5`` <<https://github.com/madpah/requirements-parser/commit/e76a3f553d145bcd9fdb2c8aa7424b607056ee0>>`\_`)

2.1.2 Unknown

- doc: install requirements.txt before building docs

Signed-off-by: Paul Horton <paul.horton@owasp.org> (``1ce9236`` <<https://github.com/madpah/requirements-parser/commit/1ce923617147dd984c280d56cb1f02fcd3589a7c>>`\_`)

- doc: minor doc improvements

Signed-off-by: Paul Horton <paul.horton@owasp.org> (``ee91237`` <<https://github.com/madpah/requirements-parser/commit/ee9123745ca3cd78826b2eddd3abe2644920d15c>>`\_`)

2.2 v0.5.0 (2022-01-20)

2.2.1 Chore

- chore: added license header to source files

Signed-off-by: Paul Horton <phorton@sonatype.com> (``b8d5c56`` <<https://github.com/madpah/requirements-parser/commit/b8d5c5630c2297d298064c012e352816eb420e86>>`\_`)

2.2.2 Feature

- feat: support all documented options in requirements files #62 (#63)
- feat: support all documented options in requirements files #62

Signed-off-by: Paul Horton <phorton@sonatype.com>;

- fixed type bug

Signed-off-by: Paul Horton <phorton@sonatype.com>; (`f92c0c0`` <<https://github.com/madpah/requirements-parser/commit/f92c0c079bce03b1860c78852d2c8c48cf32d539>>`_)

2.3 v0.4.0 (2022-01-18)

2.3.1 Chore

- chore: removed dependency not yet required

Signed-off-by: Paul Horton <phorton@sonatype.com>; (`5184747`` <<https://github.com/madpah/requirements-parser/commit/51847473358f567be245ae0f993a1ee924ec06ee>>`_)

- chore: exclude built docs from git

Signed-off-by: Paul Horton <phorton@sonatype.com>; (`24463ba`` <<https://github.com/madpah/requirements-parser/commit/24463ba19a88265fc8aa0003c2b7f33f9ef88e93>>`_)

- chore: exclude built docs from git

Signed-off-by: Paul Horton <phorton@sonatype.com>; (`9487044`` <<https://github.com/madpah/requirements-parser/commit/948704494fa8003b5d400f6594d5276400c76e85>>`_)

2.3.2 Feature

- feat: library is now typed according to PEP561
- chore: added static analysis to CI

Signed-off-by: Paul Horton <phorton@sonatype.com>; (`0e1bb6a`` <<https://github.com/madpah/requirements-parser/commit/0e1bb6a746857a59c50530155d24da487a40c4be>>`_)

2.3.3 Unknown

- doc: readthedocs config

Signed-off-by: Paul Horton <phorton@sonatype.com>; (`793ce91`` <<https://github.com/madpah/requirements-parser/commit/793ce914074430882ba447782ae9127d8312d0bf>>`_)

- doc: readthedocs config

Signed-off-by: Paul Horton <phorton@sonatype.com>; (`203a0ed`` <<https://github.com/madpah/requirements-parser/commit/203a0ed322f3a69ffbec2a1c54a27d457583a55d>>`_)

- doc: readthedocs config

Signed-off-by: Paul Horton <phorton@sonatype.com>; (`9d22e23`` <<https://github.com/madpah/requirements-parser/commit/9d22e23317cd87cd73337b8af871c5655dd87fb7>>`_)

2.4 v0.3.1 (2021-12-17)

2.4.1 Fix

- fix: readthedocs config

Signed-off-by: Paul Horton <phorton@sonatype.com> (`ac1e7fb`` <<https://github.com/madpah/requirements-parser/commit/ac1e7fb616a2c15e83b8a5ca630ffd50aad4aedb>>`_)

2.5 v0.3.0 (2021-12-17)

2.5.1 Chore

- chore: added missing config for mypy

Signed-off-by: Paul Horton <phorton@sonatype.com> (`4fb1bf5`` <<https://github.com/madpah/requirements-parser/commit/4fb1bf5d27ed530704823bf7fee4cabba844bd5>>`_)

- chore: addressed flake8 reports

Signed-off-by: Paul Horton <phorton@sonatype.com> (`d3ee857`` <<https://github.com/madpah/requirements-parser/commit/d3ee857790a730821c8089f860595846b0ea855a>>`_)

- chore: add poetry configuration

Signed-off-by: Paul Horton <phorton@sonatype.com> (`4b54c79`` <<https://github.com/madpah/requirements-parser/commit/4b54c79bf703dd927ee686be4413a6eb6687d409>>`_)

- chore: migrated to Apache 2.0 license

Signed-off-by: Paul Horton <phorton@sonatype.com> (`5b7a6e4`` <<https://github.com/madpah/requirements-parser/commit/5b7a6e49e355a37fa6674876db4b692e8bf82943>>`_)

- chore: updated gitignore

Signed-off-by: Paul Horton <phorton@sonatype.com> (`07bea05`` <<https://github.com/madpah/requirements-parser/commit/07bea05c08da7e84e75557f6340fc80440d48f4c>>`_)

2.5.2 Ci

- ci: disable type static-code-analysis until we have typed the library

Signed-off-by: Paul Horton <phorton@sonatype.com> (`c8da36d`` <<https://github.com/madpah/requirements-parser/commit/c8da36de4e6e16c12216a5b9bf0113bb990fe9aa>>`_)

- ci: added GitHub workflow to release requirements-parser doc: updated license and changelog to work with new release process

Signed-off-by: Paul Horton <phorton@sonatype.com> (`068e3f8`` <<https://github.com/madpah/requirements-parser/commit/068e3f8b8d55c0d51c721a6b001271b2613e14f5>>`_)

- ci: temporarily disable min-requirements testing with tox

Signed-off-by: Paul Horton <phorton@sonatype.com> (`ae53393`` <<https://github.com/madpah/requirements-parser/commit/ae5339399fed0e739ee152a3328f2c314ecb17ad>>`_)

- ci: temporarily disable min-requirements testing with tox

Signed-off-by: Paul Horton <phorton@sonatype.com> (`'550f8af'` <<https://github.com/madpah/requirements-parser/commit/550f8af422cc772a5fd16cfa2f947754c4a54115>>_)

- ci: added GitHub workflow for CI

Signed-off-by: Paul Horton <phorton@sonatype.com> (`'ceba061'` <<https://github.com/madpah/requirements-parser/commit/ceba061868ee62083c6b2c02a1dd3357620ff6e9>>_)

2.5.3 Feature

- feat: added some typing fix: corrected a regex

Signed-off-by: Paul Horton <phorton@sonatype.com> (`'169ff6e'` <<https://github.com/madpah/requirements-parser/commit/169ff6e79657d8091e6e1a4e21c7da794d507832>>_)

- feat: removed Python 2 code

Signed-off-by: Paul Horton <phorton@sonatype.com> (`'82f9473'` <<https://github.com/madpah/requirements-parser/commit/82f94733f912e140fdcc0254020f4208d3e4a892>>_)

2.5.4 Fix

- fix: removed version from `init`

Signed-off-by: Paul Horton <phorton@sonatype.com> (`'4e83b9d'` <<https://github.com/madpah/requirements-parser/commit/4e83b9d3bdd5534da7adfdeb292ad2a1fae73ea8>>_)

2.5.5 Test

- test: cleaned up some sample code

Signed-off-by: Paul Horton <phorton@sonatype.com> (`'99ffc65'` <<https://github.com/madpah/requirements-parser/commit/99ffc65e7ad3d1a7842800cd489099cdf2681f88>>_)

- test: migrated `test_requirement` to use `unittest`

Signed-off-by: Paul Horton <phorton@sonatype.com> (`'e17734a'` <<https://github.com/madpah/requirements-parser/commit/e17734a9afec2ebd518baadca6db4e7da6848c25>>_)

- test: migrated `test_parser` to `unittest` and added some minor test fixes

Signed-off-by: Paul Horton <phorton@sonatype.com> (`'5d2eebe'` <<https://github.com/madpah/requirements-parser/commit/5d2eebec15e087a91594778090bcc06ce00d8927>>_)

2.5.6 Unknown

- Merge pull request #56 from madpah/feat/migrate-to-poetry

Migration to Poetry and other updates after David kindly transferred to Paul (`'8833cdb'` <<https://github.com/madpah/requirements-parser/commit/8833cdb128ce7909c4d0dbe635fce2a410ff4023>>_)

- doc: README is now in Markdown, not RST

Signed-off-by: Paul Horton <phorton@sonatype.com> (`'3d78272'` <<https://github.com/madpah/requirements-parser/commit/3d78272588ab537e825cd32b37f8a6010d6f8d57>>_)

- doc: README is now in Markdown, not RST

Signed-off-by: Paul Horton <phorton@sonatype.com> (``2a9dcf7` <https://github.com/madpah/requirements-parser/commit/2a9dcf768d5c7ca542456ad45a8664008ef1b861>`_`)

- doc: updated doc generation and changelog generation

Signed-off-by: Paul Horton <phorton@sonatype.com> (``6f73ee5` <https://github.com/madpah/requirements-parser/commit/6f73ee5e9478176c1efeb72087f3b1d9e9c4340c>`_`)

- Merge pull request #27 from belak/belak/editable-eol-comments

Fix parsing lines using -e and end of line comments (``ea3dbec` <https://github.com/madpah/requirements-parser/commit/ea3dbec76628878f6b1bbcb865670c29957f2c2>`_`)

- Merge pull request #34 from chrislawlor/feature/requirement-equality

Adds equality (and inequality) testing to Requirement class (``d8e6737` <https://github.com/madpah/requirements-parser/commit/d8e67370cb96e535146c318ac9ec33d91f8231cc>`_`)

- Merge pull request #44 from jayvdb/sdist

MANIFEST.in: Add tests and docs (``beda9cf` <https://github.com/madpah/requirements-parser/commit/beda9cf56111bce73fbcb52ca971407fec46a9f1>`_`)

- .travis.yml: Run Python 3.8 without coverage (``b265c38` <https://github.com/madpah/requirements-parser/commit/b265c3862bbdd88ca76bf0ddd465ca6fc48be220>`_`)
- .travis.yml: Replace 3.3 with 3.7 & 3.8

Travis no longer provides 3.3 (``772412a` <https://github.com/madpah/requirements-parser/commit/772412a1d380517fed41d65889f20cfd828e3f5d>`_`)

- MANIFEST.in: Add tests and docs (``ecabc1d` <https://github.com/madpah/requirements-parser/commit/ecabc1db4ab71618647bf283c49d3e10e6ef139a>`_`)
- Merge pull request #38 from cooperlees/master

Add setuptools as a install_requires Dependency (``ad404ad` <https://github.com/madpah/requirements-parser/commit/ad404add0423d7e1f419c3a48dc884375d57f376>`_`)

- Add setuptools as a install_requires

pkg_resources is needed at runtime, lets be explicit and state that so pip etc. do the right thing. (``212078b` <https://github.com/madpah/requirements-parser/commit/212078ba15e8af7817461fb65e16c257061107fc>`_`)

2.6 v0.2.0 (2018-11-15)

2.6.1 Unknown

- Increment version (``52f802c` <https://github.com/madpah/requirements-parser/commit/52f802c77573c0e64240cd47246de01ffbf96c0c>`_`)
- Update changelog for release (``2fd0faf` <https://github.com/madpah/requirements-parser/commit/2fd0faf6a742536fd2da20595607426a265f96cf>`_`)
- Adds equality (and inequality) testing to Requirement class (``de158d7` <https://github.com/madpah/requirements-parser/commit/de158d7bf72b8faef8f82c484dbe6f6ca9d149e6>`_`)
- Merge pull request #33 from sbidoul/preserve-login-sbi

preserve login part of uri (``caca172` <https://github.com/madpah/requirements-parser/commit/caca172b80d448c6175c1b4f5777781d583fc9b7>`_`)

- preserve login part of uri (``c34f405`` <<https://github.com/madpah/requirements-parser/commit/c34f405d7cd4f1157248c8f883fd5450ce7b7eb>>`\_`)
- Update the README (``a3dc6d2`` <<https://github.com/madpah/requirements-parser/commit/a3dc6d256eca92e5e101b045c9de5f7fa07460c7>>`\_`)
- Add an authors file to credit helpful folks (``90571d3`` <<https://github.com/madpah/requirements-parser/commit/90571d3d311bc96512d7f204972116c37f6fc3d9>>`\_`)
- Merge branch 'subdirectory-sbi' of <https://github.com/sbidoul/requirements-parser> into sbidoul-subdirectory-sbi (``b9f0290`` <<https://github.com/madpah/requirements-parser/commit/b9f0290cd38e3af19ccf4c63dbc5feb473732967>>`\_`)
- Merge pull request #30 from ticosax/fix-vcs-extras_require

Fix vcs urls parsing with extras_require (``f9e93d0`` <<https://github.com/madpah/requirements-parser/commit/f9e93d0d057c0fe9a958c4b0dff1353074868835>>`\_`)

- Merge pull request #28 from ticosax/fix-master-py36

Produce more predictable output for tests (``4aaeae7`` <<https://github.com/madpah/requirements-parser/commit/4aaeae76275792f4161a22c4e8f6a07f829083a3>>`\_`)

- support subdirectory fragment (``fd2c098`` <<https://github.com/madpah/requirements-parser/commit/fd2c09861512b1232d4af723db36c1f4be038be9>>`\_`)
- [FIX] specs and extras are now unordered

Fix tests, reckoning that setuputils.parse does not preserve ordering of specs and extras anymore. (``5c8f85d`` <<https://github.com/madpah/requirements-parser/commit/5c8f85d50d986b36392ec14a17bee53c8f12ab5f>>`\_`)

- fixup! Extract extras from fragment's egg when vcs is specified (``cab9ebd`` <<https://github.com/madpah/requirements-parser/commit/cab9ebdb834498791368dc3d86b9eef4eacf4f47>>`\_`)
- Extract extras from fragment's egg when vcs is specified (``01b2f5c`` <<https://github.com/madpah/requirements-parser/commit/01b2f5c592405feadc833f7eaea48769b1b8a1bd>>`\_`)
- Produce expected output during tests

pkg_req.extras and pkg_req.specs are stored in Sets and thus ordering can't be predicted. (``44812d9`` <<https://github.com/madpah/requirements-parser/commit/44812d907cc499618b2718bf3acf36812d70e514>>`\_`)

- Produce expected output during tests

pkg_req.extras and pkg_req.specs are stored in Sets and thus ordering can't be predicted. (``817229e`` <<https://github.com/madpah/requirements-parser/commit/817229ea4c8837995fcaab09c7c25691e764fde2>>`\_`)

- Merge pull request #29 from ticosax/drop-python-3.2

Drop python 3.2 as it is not maintained since February 2016 (``659c4af`` <<https://github.com/madpah/requirements-parser/commit/659c4af2c3c3b365e35b0462c2797ffd88f3761c>>`\_`)

- Drop python 3.2 as it is not maintained since February 2016

<https://docs.python.org/devguide/devcycle.html#summary> (``bf11658`` <<https://github.com/madpah/requirements-parser/commit/bf116582b6d737a6971445823b812b326d58f99f>>`\_`)

- Drop Python2.6 support; Add 3.6 support (``e35b9f7`` <<https://github.com/madpah/requirements-parser/commit/e35b9f70de74251e16f76305d006eca63abcb086>>`\_`)
- Merge pull request #24 from mshenfield/issue-22-add-hash-information-to-requirements

Add hash and hash_name fragment (``af136a1`` <<https://github.com/madpah/requirements-parser/commit/af136a11123ebf3acc8eac983a3ef2c3586193a9>>`\_`)

- Fix parsing lines using -e and end of line comments (`'95006a3'` <<https://github.com/madpah/requirements-parser/commit/95006a3dd1343fee721ae479deb53083530edac8>>`_)
- Flake8 3.0 dropped support for Python26 (`'4a43544'` <<https://github.com/madpah/requirements-parser/commit/4a43544dfc22cd08835ddbfb8b920b7e5a3e3b283>>`_)
- Add setup.py notes about 3.4-3.5 (`'9e85381'` <<https://github.com/madpah/requirements-parser/commit/9e85381a57913d2d8b79c119127363ebbcfc5bbd>>`_)
- Travis CI updates
- Add Python 3.4-3.5
- fix an issue with old pip (`'93428bb'` <<https://github.com/madpah/requirements-parser/commit/93428bbc48637d00269651ae07d0977d4cae5a97>>`_)
- Add hash and hash_name from fragment

This supports retrieving hashing algorithms supported by pip. If multiple algorithms are present in the fragment portion of a url, the hashes included in the requirement will be non-deterministic. (`'86c46b3'` <<https://github.com/madpah/requirements-parser/commit/86c46b32debb50f57284a06f010c27a30d646efd>>`_)

- Merge pull request #23 from mshenfield/issue-22-support-hashlib-hashes-in-uri-fragment

Parsing fragment supports arbitrary keys (`'b05c2ff'` <<https://github.com/madpah/requirements-parser/commit/b05c2ffa806f72b1d4248a20423711bbe458fb5c>>`_)

- Bump coverage for testing to 4 to fix Travis 3.2 build

More information on the travis-ci issue tracker [here](https://github.com/madpah/requirements-parser/commit/09379dc16995b6cf2b88381a2830b1aa695cd08e) (`'09379dc'` <<https://github.com/madpah/requirements-parser/commit/09379dc16995b6cf2b88381a2830b1aa695cd08e>>`_)

- Added test for editable local files

This satisfies coveralls. Because I added lines of code to an untested portion of the codebase, the overall coverage went down. (`'5db4fde'` <<https://github.com/madpah/requirements-parser/commit/5db4fde6d387c276f0d87c4e06bef309acedfd21>>`_)

- Parsing fragment supports arbitrary keys

This switches parsing the fragment (string following '#' at the end of a requirement) from looking for 'egg' at the beginning of the fragment to allowing any key value pair. These can be extracted as needed - right now only the 'egg' key is used to get the name of the package.

Tests include URI with a single fragment, and multiple fragments. (`'9559f7'` <<https://github.com/madpah/requirements-parser/commit/f9559f7c364c9ea8e9e4d3a888ee33266de69e40>>`_)

2.7 v0.1.0 (2015-05-03)

2.7.1 Unknown

- Update versions (`'c84b72a'` <<https://github.com/madpah/requirements-parser/commit/c84b72ad3f4318832cf87f9610c2f7a49c590964>>`_)
- Update sphinx theme (`'c54532c'` <<https://github.com/madpah/requirements-parser/commit/c54532cf22a82e266cb4a13ca25d67c1c36156b8>>`_)
- Update the year (`'294959e'` <<https://github.com/madpah/requirements-parser/commit/294959ef80ad81796c4135ef7ac961c3e30c9194>>`_)

- Update the changelog (``8efccb2`` <<https://github.com/madpah/requirements-parser/commit/8efccb276d950ff35dda6ce9d03a52ad19111bf3>>`_)
- Merge pull request #19 from jaysonsantos/master

add ability to parse recursive requirements (``5b1721f`` <<https://github.com/madpah/requirements-parser/commit/5b1721fe82241d1f84a3c822b7d4bdc0eb12505a>>`_)

- Fix pep8 max column size (``8fefe15`` <<https://github.com/madpah/requirements-parser/commit/8fefe15c24f4b1bd7017ff6f7452fc266940a153>>`_)
- add ability to parse recursive requirements (``fa55463`` <<https://github.com/madpah/requirements-parser/commit/fa55463ddc3e08c652308c29dbd31dceb41564c8>>`_)
- Merge pull request #17 from saschpe/master-underscores

Properly parse underscores (``a6af275`` <<https://github.com/madpah/requirements-parser/commit/a6af275c96523cd781fa6b1f6b1e1c7f697d504f>>`_)

- Properly parse underscores

pkg_resources.Requirement's constructor calls save_name() on the project_name member which converts underscores to hyphens. Thus use Requirement.unsafe_name (the pristine name) instead. (``6403d51`` <<https://github.com/madpah/requirements-parser/commit/6403d5145f1ad7b3705a624b614900eace5433eb>>`_)

2.8 v0.0.6 (2013-08-17)

2.8.1 Unknown

- v0.0.6 :sparkles: (``7b0cc23`` <<https://github.com/madpah/requirements-parser/commit/7b0cc239db30581809e081071b6945d63980173c>>`_)
- v0.0.5 :sparkles: (``773bba5`` <<https://github.com/madpah/requirements-parser/commit/773bba5d8bdab0cbe674220fea0d96320204b743>>`_)

2.9 v0.0.5 (2013-08-17)

2.9.1 Unknown

- Dated the changelog (``e2e13c4`` <<https://github.com/madpah/requirements-parser/commit/e2e13c4ce20963378f57959f9eb70845e4ba1be4>>`_)
- Bumped version (``e5c22ce`` <<https://github.com/madpah/requirements-parser/commit/e5c22cebdcdb4bfcd9d9014dd7333c72ca6f131>>`_)
- Added usage for common examples (``e907e6c`` <<https://github.com/madpah/requirements-parser/commit/e907e6c9f65736ec45c829a8b2034b6c01e87e74>>`_)
- Added installation (``de70666`` <<https://github.com/madpah/requirements-parser/commit/de706660238413b39d23cde47b09edc540f3aefa>>`_)
- Oops (``56e2cd7`` <<https://github.com/madpah/requirements-parser/commit/56e2cd74120803449bc7cc0cfee17346fcd9e1ca>>`_)
- Added documentation (``8e11fdd`` <<https://github.com/madpah/requirements-parser/commit/8e11fdd4e7126b98f4cb58d61c2984bd71356962>>`_)

- **sparkles**

2013 (I'm late) (``8c8131c`` <<https://github.com/madpah/requirements-parser/commit/8c8131c97a4f61513acd87218163053ad5e397ad>>`_)

- Added coverage badge (``045c686`` <<https://github.com/madpah/requirements-parser/commit/045c686ce0d004bd33612b5034e247dfc5d15e4b>>`_)

- Merge pull request #15 from davidfischer/coveralls

Added code coverage (``57cbe4b`` <<https://github.com/madpah/requirements-parser/commit/57cbe4b9f2981780b9b74b2d55eeea044fda1297>>`_)

- Added code coverage (``c36dc51`` <<https://github.com/madpah/requirements-parser/commit/c36dc51ce8439139cbada3ea3e4555a10e72804d>>`_)

- Merge pull request #14 from davidfischer/parser-refactor

Big parser refactor (``547106f`` <<https://github.com/madpah/requirements-parser/commit/547106f67d92c82a2f5e0ea66c5881e7685a3c8a>>`_)

- Switch to unicode literals (``b8810af`` <<https://github.com/madpah/requirements-parser/commit/b8810af9e686c18e05029541ee005d3baecb7a67>>`_)

- Big parser refactor

- broke the parser into a Requirement class

- refactored the unit test suite

- better handling of VCS (``a7a4910`` <<https://github.com/madpah/requirements-parser/commit/a7a4910a78cc38881c7a6559a45d274f146ca3c7>>`_)

- Merge pull request #13 from davidfischer/refactor-tests

Refactored tests into test files (``a12ffae`` <<https://github.com/madpah/requirements-parser/commit/a12ffae3b8204ed4b0978e605d3f811013f066a4>>`_)

- Refactored tests into test files

Each test has a txt file and an expected file (except "fails") (``3058539`` <<https://github.com/madpah/requirements-parser/commit/3058539596fe8fe851aae79e396a1223996ccbd3>>`_)

- Merge pull request #9 from valmet/master

Compiled regular expressions (``9d8af15`` <<https://github.com/madpah/requirements-parser/commit/9d8af15ce4dec6128aefdb793a29e85133884547>>`_)

- It should be pass tests... please. (``a4cf621`` <<https://github.com/madpah/requirements-parser/commit/a4cf6213d07a9c51242bd150431c8829842b87e1>>`_)

- Oh, shi~... autopep8. (``28d483e`` <<https://github.com/madpah/requirements-parser/commit/28d483ee529beeed61efd22a8d9a39a47bde9094>>`_)

- Flags (``78b17aa`` <<https://github.com/madpah/requirements-parser/commit/78b17aa3d7d73146b505fccf05c5db17d3b0b6ad>>`_)

- Compiled regular expressions (``9adb0a5`` <<https://github.com/madpah/requirements-parser/commit/9adb0a574dafcb26d0157ca564b01afd93a89c25>>`_)

- Introduce code quality (``26f1067`` <<https://github.com/madpah/requirements-parser/commit/26f106751400971666862306cc63dcfd24c3c9c>>`_)

2.10 v0.0.4 (2013-05-29)

2.10.1 Unknown

- Version v0.0.4 :sparkles: (``3d7cc24`` <<https://github.com/madpah/requirements-parser/commit/3d7cc24fe904223f11dc1f982fe64232d8a8f10c>>`_)
- Slight stylistic change (``51d0369`` <<https://github.com/madpah/requirements-parser/commit/51d03697e961cd17b2d553b61fc2c01892d6dbd>>`_)
- Ignore file can handle multiple virtualenvs (``0f2246a`` <<https://github.com/madpah/requirements-parser/commit/0f2246ad8f63cfaee399cb9a790d95b94132df88>>`_)
- Merge pull request #7 from davidfischer/pkg-resources

Use `pkg_resources` for parsing (``48a8179`` <<https://github.com/madpah/requirements-parser/commit/48a81792130808883d30be0a6432aa5695a88c80>>`_)

- Added a couple tests (``a0a448f`` <<https://github.com/madpah/requirements-parser/commit/a0a448f5d07b291eae05ec984a9311ac3ea5147>>`_)
- Finally got this right (``6d8200e`` <<https://github.com/madpah/requirements-parser/commit/6d8200ec02942abb791b2e2db3a728cd3999139b>>`_)
- Fixed typo (``b7fbb35`` <<https://github.com/madpah/requirements-parser/commit/b7fbb35fbf9ff58d9ef5ab31b78a55d8be4f32f7>>`_)
- Updated readme with new example (``de275bb`` <<https://github.com/madpah/requirements-parser/commit/de275bbf7502409b7971ef5c08bcc8621bedca1b>>`_)
- Using `pkg_resources` to parse requirements
- Backwards incompatible API change!
- Using regex for URI/file/VCS requirements (``1e272de`` <<https://github.com/madpah/requirements-parser/commit/1e272de42e8b943d4d2e79b9b071a5b87dde3f20>>`_)
- Permission fix (``cdc5b4b`` <<https://github.com/madpah/requirements-parser/commit/cdc5b4bece1f66923ddd7b66d211d034488cc6bf>>`_)

2.11 v0.0.3 (2013-05-28)

2.11.1 Unknown

- Version 0.0.3 :sparkles: (``fc0a140`` <<https://github.com/madpah/requirements-parser/commit/fc0a1403c9a9eae5f093906fac811420f8c66c9f>>`_)
- Updated name in license (``f7ecdab`` <<https://github.com/madpah/requirements-parser/commit/f7ecdaba0d13c6c7297c712f68aaa488626f23bc>>`_)
- Name change on travis (``ef38eb6`` <<https://github.com/madpah/requirements-parser/commit/ef38eb6384080a1de38d6781dfebc2c848cdbc41>>`_)
- Merge pull request #6 from davidfischer/name-change

Changed name to requirements parser (``2c56a6b`` <<https://github.com/madpah/requirements-parser/commit/2c56a6b66dfd7904debd13a1b64fcb2c0455bc3>>`_)

- Changed name to requirements parser

Changed module name to requirements (``d995b0c` <https://github.com/madpah/requirements-parser/commit/d995b0cf6d5c1c852b5cf85a65bc2d03875a82aa>`_`)

2.12 v0.0.2 (2013-05-27)

2.12.1 Unknown

- Version v0.0.2 :sparkles: (``772bda4` <https://github.com/madpah/requirements-parser/commit/772bda498571f7d3ff00d08834bf7f42e3556bc7>`_`)
- Formatting improvements (``662e85e` <https://github.com/madpah/requirements-parser/commit/662e85e49f20a84a6ce03167c1f16f075f9d7539>`_`)
- No longer testing on 3.0 and 3.1

However, the wall of superpowers at least checks for Programming Language :: Python :: 3 (``14bc67d` <https://github.com/madpah/requirements-parser/commit/14bc67d0e1eb5144b5219a7590d2d4aa4b7561ef>`_`)

- Travis does not support Python 3.0 or Python 3.1

<http://about.travis-ci.org/docs/user/ci-environment/#Python-VM-images> (``7971479` <https://github.com/madpah/requirements-parser/commit/7971479453716d4d8d67383eeda7fafc1553ff9>`_`)

- Merge pull request #2 from treyhunner/add-manifest

Add manifest (``d7649b6` <https://github.com/madpah/requirements-parser/commit/d7649b607799566332b239ddea6197aea0d54e69>`_`)

- Add MANIFEST file noting inclusion of rst files (``87fe595` <https://github.com/madpah/requirements-parser/commit/87fe595679ab14d35ba50c3f44d846d792378c62>`_`)
- Bump version (between releases) (``426e337` <https://github.com/madpah/requirements-parser/commit/426e337895fa3a9ffb9dd2c81d1d833ec3609c53>`_`)
- Merge pull request #1 from davidfischer/image-fix

Fix travis-ci link (``85601b6` <https://github.com/madpah/requirements-parser/commit/85601b6ff1b665f18571a3986fd1d5eeff3a1b05>`_`)

- Fix travis-ci link (``944ae07` <https://github.com/madpah/requirements-parser/commit/944ae07dc1967b32ef61d1357a4e323d2a9e9290>`_`)
- Fixed copy/paste issues (``015058d` <https://github.com/madpah/requirements-parser/commit/015058da1c86ee92fca281b8ee4bfe12d51507dc>`_`)
- Added classifiers for 3.x (``866a887` <https://github.com/madpah/requirements-parser/commit/866a88740d822d2bc4bed2b789407713f73b8651>`_`)
- Added unit testing for Python3 (``47c6742` <https://github.com/madpah/requirements-parser/commit/47c67429c6417b1a097910aac6fec4b2052dd269>`_`)
- Added 3.x compatibility (``fe6789f` <https://github.com/madpah/requirements-parser/commit/fe6789fe6aacc0e84a850d695813aea0d87ccb48>`_`)
- Added travis-ci image (``e4b612e` <https://github.com/madpah/requirements-parser/commit/e4b612e5949b4115e71157b3b84c46933a729746>`_`)
- Added continuous integration (``8aa6e53` <https://github.com/madpah/requirements-parser/commit/8aa6e532ddf18c9421b15282af9b65a0cb3ab8b8>`_`)

- Added additional test from crate.io reqs (``ad1ae22` <https://github.com/madpah/requirements-parser/commit/ad1ae222070aaec860ed1199d0122b69da88b91d>`_`)

2.13 v0.0.1 (2012-11-25)

2.13.1 Unknown

- Added license file (``f243bc5` <https://github.com/madpah/requirements-parser/commit/f243bc58d172e1ac0d6e453782c6b61cba879f4d>`_`)
- Added tests and fixed corresponding issues
- added RTFD req files as tests
- added tests for warnings and other tests
- updated parser to handle more edge cases (``8434fd2` <https://github.com/madpah/requirements-parser/commit/8434fd25f928fe0f9de48e7ad4a71407fd388e76>`_`)
- Added the first cut
- parse editables (svn+http...)
- parse file URIs
- parse "normal"
- parse extras (``d04253a` <https://github.com/madpah/requirements-parser/commit/d04253a61e85faec3b6000f8620af05114b8ba48>`_`)
- Added test for file-like obj (``819de98` <https://github.com/madpah/requirements-parser/commit/819de98a18d87018aee905bf1e6afab6d3f8197c>`_`)
- Added trivial version
- Added test for empty parse
- Added version info
- Added setup.py
- Added parser that always returns empty (``168d8c1` <https://github.com/madpah/requirements-parser/commit/168d8c1cebd956cf8f5fba708bb1eab3725315c2>`_`)
- Added README with proposed functionality
- Parse function accepts file or string
- CONSIDER: list of dicts instead of tuples (``0a0e4d7` <https://github.com/madpah/requirements-parser/commit/0a0e4d70af7a3b9766b223a809e51fb2dedf224b>`_`)
- Added ignorefile (``e25c719` <https://github.com/madpah/requirements-parser/commit/e25c719360406409f819a03b620d527b3aa2a835>`_`)

LOW LEVEL API

3.1 Higher Level Parsing

Typically this is called via:

```
import requirements
requirements.parse('django>=1.5')
```

`requirements.parser.parse(reqstr: str | TextIO) → Iterator[Requirement]`

Parse a requirements file into a list of Requirements

See: `pip/req.py:parse_requirements()`

Parameters

reqstr – a string or file like object containing requirements

Returns

a *generator* of Requirement objects

3.2 Lower Level Parsing

Under the hood, the `Requirement` class does most of the heavy lifting.

class `requirements.requirement.Requirement(line: str)`

Represents a single requirement

Typically instances of this class are created with `Requirement.parse`. For local file requirements, there's no verification that the file exists. This class attempts to be *dict-like*.

See: <http://www.pip-installer.org/en/latest/logic.html>

Members:

- **line** - the actual requirement line being parsed
- **editable** - a boolean whether this requirement is “editable”
- **local_file** - a boolean whether this requirement is a local file/path
- **specifier** - a boolean whether this requirement used a requirement specifier (eg. “django>=1.5” or “requirements”)
- **vcs** - a string specifying the version control system
- **revision** - a version control system specifier

- **name** - the name of the requirement
- **uri** - the URI if this requirement was specified by URI
- **subdirectory** - the subdirectory fragment of the URI
- **path** - the local path to the requirement
- **hash_name** - the type of hashing algorithm indicated in the line
- **hash** - the hash value indicated by the requirement line
- **extras** - a list of extras for this requirement (eg. “mymodule[extra1, extra2]”)
- **specs** - a list of specs for this requirement (eg. “mymodule>1.5,<1.6” => [(‘>’, ‘1.5’), (‘<’, ‘1.6’)])

classmethod `parse(line: str) → Requirement`

Parses a Requirement from a line of a requirement file.

Parameters

line – a line of a requirement file

Returns

a Requirement instance for the given line

Raises

ValueError on an invalid requirement

classmethod `parse_editable(line: str) → Requirement`

Parses a Requirement from an “editable” requirement which is either a local project path or a VCS project URI.

See: `pip/req.py:from_editable()`

Parameters

line – an “editable” requirement

Returns

a Requirement instance for the given line

Raises

ValueError on an invalid requirement

classmethod `parse_line(line: str) → Requirement`

Parses a Requirement from a non-editable requirement.

See: `pip/req.py:from_line()`

Parameters

line – a “non-editable” requirement

Returns

a Requirement instance for the given line

Raises

ValueError on an invalid requirement

3.3 Misc Functions

`requirements.parse(reqstr: str | TextIO) → Iterator[Requirement]`

Parse a requirements file into a list of Requirements

See: `pip/req.py:parse_requirements()`

Parameters

reqstr – a string or file like object containing requirements

Returns

a *generator* of Requirement objects

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