
iscompatible Documentation

Release 0.1.1

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Contents

Python Module Index

3

iscompatible v0.1.1. gives you the power of the pip requirements.txt syntax for everyday python packages, modules, classes or arbitrary functions.

The requirements.txt syntax allows you to specify inexact matches between a set of requirements and a version. For example, let's assume that the single package foo-5.6.1 exists on disk. The following requirements are all compatible with foo-5.6.1.

Requirement	Description
foo	any version of foo
foo>=5	any version of foo, above or equal to 5
foo>=5.6	any version of foo, above or equal to 5.6
foo==5.6.1	exact match
foo>5	foo-5 or greater, including minor and patch
foo>5, <5.7	foo-5 or greater, but less than foo-5.7
foo>0, <5.7	any foo version less than foo-5.7

Example

```
>>> iscompatible("foo>=5", (5, 6, 1))
True
>>> iscompatible("foo>=5.6.1, <5.7", (5, 0, 0))
False
>>> MyPlugin = type("MyPlugin", (), {'version': (5, 6, 1)})
>>> iscompatible("foo==5.6.1", MyPlugin.version)
True
```

References

- The requirements file-format

`iscompatible.iscompatible(requirements, version)`

Return whether or not *requirements* is compatible with *version*

Parameters

- **requirements (str)** – Requirement to compare, e.g. `foo==1.0.1`
- **version (tuple)** – Version to compare against, e.g. `(1, 0, 1)`

Example

```
>>> iscompatible("foo", (1, 0, 0))
True
>>> iscompatible("foo<=1", (0, 9, 0))
True
>>> iscompatible("foo>=1, <1.3", (1, 2, 0))
True
>>> iscompatible("foo>=0.9.9", (1, 0, 0))
True
>>> iscompatible("foo>=1.1, <2.1", (2, 0, 0))
True
>>> iscompatible("foo==1.0.0", (1, 0, 0))
True
>>> iscompatible("foo==1.0.0", (1, 0, 1))
False
```

`iscompatible.parse_requirements(line)`

Return list of tuples with (operator, version) from *line*

Note: This is a minimal re-implementation of `pkg_utils.parse_requirements` and doesn't include support for VCS or extras.

Example

```
>>> parse_requirements("foo==1.0.0")
[('==', '1.0.0')]
>>> parse_requirements("foo>=1.1.0")
[('>=', '1.1.0')]
>>> parse_requirements("foo>=1.1.0, <1.2")
[('>=', '1.1.0'), ('<', '1.2')]
```

`iscompatible.string_to_tuple(version)`

Convert version as string to tuple

Example

```
>>> string_to_tuple("1.0.0")
(1, 0, 0)
>>> string_to_tuple("2.5")
(2, 5)
```

i

iscompatible, 1

|

iscompatible (module), 1
iscompatible() (in module iscompatible), 1

P

parse_requirements() (in module iscompatible), 1

S

string_to_tuple() (in module iscompatible), 2