
pyicontract-lint Documentation

Release 2.1.4

Marko Ristin

Aug 28, 2021

Contents:

1 icontract_lint	1
2 Indices and tables	3
Python Module Index	5
Index	7

Lint contracts defined with icontract library.

```
class icontract_lint.Error (identifier, description, filename, lineno)
```

Represent a linter error.

```
as_mapping()
```

Transform the error to a mapping that can be converted to JSON and similar formats.

Return type *ErrorMapping*

```
description = None
```

verbose description of the error including details about the cause (*e.g.*, the name of the invalid argument)

```
filename = None
```

file name of the linted module

```
identifier = None
```

identifier of the error

```
lineno = None
```

line number of the offending decorator

```
class icontract_lint.ErrorID
```

Enumerate error identifiers.

```
INVALID_SYNTAX = 'invalid-syntax'
```

```
INV_INVALID_ARG = 'inv-invalid-arg'
```

```
NO_CONDITION = 'no-condition'
```

```
POST_INVALID_ARG = 'post-invalid-arg'
```

```
POST_OLD_CONFLICT = 'post-old-conflict'
```

```
POST_RESULT_CONFLICT = 'post-result-conflict'
```

```
POST_RESULT_NONE = 'post-result-none'
```

```
PRE_INVALID_ARG = 'pre-invalid-arg'
```

`SNAPSHOT_INVALID_ARG = 'snapshot-invalid-arg'`

`SNAPSHOT_WO_CAPTURE = 'snapshot-wo-capture'`

`SNAPSHOT_WO_NAME = 'snapshot-wo-name'`

`SNAPSHOT_WO_POST = 'snapshot-wo-post'`

`UNREADABLE = 'unreadable'`

`class icontract_lint.ErrorMapping`

Represent an error given as a mapping.

`icontract_lint.check_file(path)`

Parse the given file as Python code and lint its contracts.

Parameters `path` (`Path`) – path to the file

Return type `List[Error]`

Returns list of lint errors

`icontract_lint.check_paths(paths)`

Lint the given paths.

The directories are recursively linted for `*.py` files.

Parameters `paths` (`List[Path]`) – paths to lint

Return type `List[Error]`

Returns list of lint errors

`icontract_lint.check_recursively(path)`

Lint all `*.py` files beneath the directory (including subdirectories).

Parameters `path` (`Path`) – path to the directory.

Return type `List[Error]`

Returns list of lint errors

`icontract_lint.output_json(errors, stream)`

Output errors in a JSON format to the `stream`.

Parameters

• **errors** (`List[Error]`) – list of lint errors

• **stream** (`Textio`) – output stream

Return type `None`

Returns

`icontract_lint.output_verbose(errors, stream)`

Output errors in a verbose, human-readable format to the `stream`.

Parameters

• **errors** (`List[Error]`) – list of lint errors

• **stream** (`Textio`) – output stream

Return type `None`

Returns

CHAPTER 2

Indices and tables

- [genindex](#)
- [modindex](#)
- [search](#)

i

icontract_lint, 1

A

as_mapping() (*icontract_lint.Error* method), 1

C

check_file() (*in module icontract_lint*), 2

check_paths() (*in module icontract_lint*), 2

check_recursively() (*in module icontract_lint*), 2

D

description (*icontract_lint.Error* attribute), 1

E

Error (*class in icontract_lint*), 1

ErrorID (*class in icontract_lint*), 1

ErrorMapping (*class in icontract_lint*), 2

F

filename (*icontract_lint.Error* attribute), 1

I

icontract_lint (*module*), 1

identifier (*icontract_lint.Error* attribute), 1

INV_INVALID_ARG (*icontract_lint.ErrorID* attribute),
1

INVALID_SYNTAX (*icontract_lint.ErrorID* attribute), 1

L

lineno (*icontract_lint.Error* attribute), 1

N

NO_CONDITION (*icontract_lint.ErrorID* attribute), 1

O

output_json() (*in module icontract_lint*), 2

output_verbose() (*in module icontract_lint*), 2

P

POST_INVALID_ARG (*icontract_lint.ErrorID* at-
tribute), 1

POST_OLD_CONFLICT (*icontract_lint.ErrorID* at-
tribute), 1

POST_RESULT_CONFLICT (*icontract_lint.ErrorID* at-
tribute), 1

POST_RESULT_NONE (*icontract_lint.ErrorID* at-
tribute), 1

PRE_INVALID_ARG (*icontract_lint.ErrorID* attribute),
1

S

SNAPSHOT_INVALID_ARG (*icontract_lint.ErrorID* at-
tribute), 1

SNAPSHOT_WO_CAPTURE (*icontract_lint.ErrorID* at-
tribute), 2

SNAPSHOT_WO_NAME (*icontract_lint.ErrorID* at-
tribute), 2

SNAPSHOT_WO_POST (*icontract_lint.ErrorID* at-
tribute), 2

U

UNREADABLE (*icontract_lint.ErrorID* attribute), 2