
Trololio Documentation

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ThinkChaos

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Trololio allows your program to have a *soft* dependency on `trollius` in Python versions where `asyncio` (aka Tulip) is part of the standard library.

Trololio provides a compatibility layer for Trollius and asyncio, it addresses the differences listed in [Trollius and Tulip](#):

- Allows the use of Trollius' syntax with `asyncio`.
- Provides missing objects and aliases for the others.
- Synchronizes debug environment variables.

See also:

Documentation for [Trollius](#) and `asyncio`.

Indices and tables

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Converting Code

1. If your code was written for `asyncio`, convert it to use `Trollius`.

2. Change your `trollius` imports:

```
- from trollius import coroutine, From, Return
+ from trololio import coroutine, From, Return

- import trollius
+ from trololio import asyncio
```

3. If you used the second import style:

```
- trollius.*
+ [trololio.]asyncio.*
```

note Make sure you use `coroutine()`, `From()` and `Return` from `trololio` and not `asyncio`. Otherwise an `ImportError` will be raised when running with `asyncio` (Tulip).

Module contents

`trololio.ASYNCIO`

A boolean indicating if `asyncio` (`trololio`'s submodule) is `asyncio` (Tulip).

`trololio.TROLLIUS`

A boolean indicating if `asyncio` (`trololio`'s submodule) is `trollius`.

`ASYNCIO` and `TROLLIUS` are always of opposite value.

3.1 Trollius objects

The following objects are aliases for the `trollius` ones, or defined by `trololio`.

`trololio.coroutine()`

`trollius.coroutine` or equivalent allowing `yield From(x)`.

`trololio.From()`

`trollius.From` or equivalent.

exception `trololio.Return`

`trollius.Return` or equivalent.

`trololio.BACKPORT_SSL_ERRORS`

`trollius.BACKPORT_SSL_ERRORS` or `False`.

`trololio.BACKPORT_SSL_CONTEXT`

`trollius.BACKPORT_SSL_CONTEXT` or `False`.

3.2 Standard library objects

The following objects are aliases for the `trollius` ones, or aliases for the standard library ones.

3.2.1 OSError and socket.error exceptions

exception `trololio.BlockingIOError`

`trollius.BlockingIOError` or `BlockingIOError`.

exception `trololio.BrokenPipeError`

`trollius.BrokenPipeError` or `BrokenPipeError`.

exception `trololio.ChildProcessError`

`trollius.ChildProcessError` or `ChildProcessError`.

exception `trololio.ConnectionAbortedError`

`trollius.ConnectionAbortedError` or `ConnectionAbortedError`.

exception `trololio.ConnectionRefusedError`

`trollius.ConnectionRefusedError` or `ConnectionRefusedError`.

exception `trololio.ConnectionResetError`

`trollius.ConnectionResetError` or `ConnectionResetError`.

exception `trololio.FileNotFoundError`

`trollius.FileNotFoundError` or `FileNotFoundError`.

exception `trololio.InterruptedError`

`trollius.InterruptedError` or `InterruptedError`.

exception `trololio.PermissionError`

`trollius.PermissionError` or `PermissionError`.

3.2.2 SSLError

exception `trololio.SSLEOFError`

`trollius.SSLEOFError` or `ssl.SSLEOFError`.

exception `trololio.SSLWantReadError`

`trollius.SSLWantReadError` or `ssl.SSLWantReadError`.

exception `trololio.SSLWantWriteError`

`trollius.SSLWantWriteError` or `ssl.SSLWantWriteError`.

3.2.3 SSLContext

class `trololio.SSLContext`

`trollius.SSLContext` or `ssl.SSLContext`.

3.3 asyncio submodule

Trololio provides the `asyncio` submodule. It is either `trollius`, the first choice, or `asyncio` (Tulip), the fallback.

note If neither module was found, an `ImportError` is raised.

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