retry.it Documentation

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Contents

Contents: A simple python module to add a retry function decorator

exception `retry.`**MaximumRetriesExceeded**

exception `retry.`**MaximumTimeoutExceeded**

`retry.`**retry**(*exceptions=(<type 'exceptions.Exception'>,), interval=0, max_retries=10, success=None, timeout=-1*)

Decorator to retry a function 'max_retries' amount of times

Parameters

- **exceptions** (*tuple*) – Exceptions to be caught for retries
- **interval** (*int*) – Interval between retries in seconds
- **max_retries** (*int*) – Maximum number of retries to have, if set to -1 the decorator will loop forever
- **success** (*function*) – Function to indicate success criteria
- **timeout** (*int*) – Timeout interval in seconds, if -1 will retry forever

Raises

- ***MaximumRetriesExceeded*** – Maximum number of retries hit without reaching the success criteria
- **TypeError** – Both exceptions and success were left None causing the decorator to have no valid exit criteria.

Example: Use it to decorate a function!

```
from retry import retry

@retry(exceptions=(ArithmeticError,), success=lambda x: x > 0)
def foo(bar):
    if bar < 0:
        raise ArithmeticError('testing this')
    return bar
foo(5)
# Should return 5
foo(-1)
# Should raise ArithmeticError
foo(0)
# Should raise MaximumRetriesExceeded
```

CHAPTER 1

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