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# **taskthread Documentation**

***Release 1.1***

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# Contents

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<b>1</b>	<b>Indices and tables</b>
----------	---------------------------

<b>3</b>
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*taskthread* provides a thread implementation that executes a repetitive task several times without the need to start up a new thread.



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# Installation

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*taskthread* can be installed with pip, via `pip install taskthread`.





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# Usage

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## 2.1 TaskThread

**class** `taskthread.TaskThread`(*task*, *event*=<threading.\_Event object at 0x2788d0>, \**args*, \*\**kwargs*)  
A thread object that repeats a task.

Usage example:

```
from taskthread import TaskThread

import time

def my_task(*args, **kwargs):
    print args, kwargs

task_thread = TaskThread(my_task)
task_thread.start()
for i in xrange(10):
    task_thread.run_task()
    task_thread.join_task()
task_thread.join()
```

### Parameters

- **task** –

A function. This param is the task to execute when `run_task` is called.

- **event** –

A `threading.Event`. This event will be set when `run_task` is called. The default value is a new event, but may be specified for testing purposes.

**daemon = True**

Threads marked as daemon will be terminated.

**join** (*timeout=None*)

Wait for the task to finish

**join\_task** (*time\_out*)

Wait for the currently running task to complete.

**Parameters** **time\_out** – An `int`. The amount of time to wait for the task to finish.

**run()**

Called by `threading.Thread`, this runs in the new thread.

**run\_task** (\*args, \*\*kwargs)

Run an instance of the task.

**Parameters**

- **args** – The arguments to pass to the task.
- **kwargs** – The keyword arguments to pass to the task.

## 2.2 TaskInProgressException

**class** `taskthread.TaskInProgressException`