
```
R"""An timed counter class
```

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Author : Anders Andersen
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Created On : Thu Apr 22 12:02:06 1999
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Last Modified By: Anders Andersen
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Last Modified On: Thu Apr 22 14:49:36 1999
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Status : Unknown, Use with caution!
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This module implements an timed counter class `TimedCounter`. This example tries to illustrate how it works (a closer description is found in the documentation of the class):

```
>>> c = TimedCounter(30, 3)
>>> print c.val
3
>>> c.add(2)
>>> print c.val
5
>>> print c.val      # 30 seconds later
3
```

```
"""
```

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```
# We need to do some timing
```

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```
import time
```

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```
class TimedCounter:
```

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```
R"""A class for timed counters
```

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This class implements a special type of counters where added and subtracted values only are valid in a given period. A timed counter has its period set to 30 (seconds) and 1 is added to it. 30 seconds later will 1 be subtracted from the counter. Instances of this class have two (public) attributes `val` and `period`, the value of the counter and the valid period of added and subtracted values respectively. Two methods `add` and `sub` are provided to respectively add a value to the counter and to subtract a value from the counter.

```
"""
```

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```
def __init__(self, period, val=0):
```

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```
R"""Initialise a timed counter
```

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Set the initial state of a timed counter. This includes its valid period (the `period` argument) and its initial value (the optional `val` argument).

```
"""
```

```
self.__dict__["period"] = period
```

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```
self.__dict__["_val"] = val
```

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```
self.__dict__["_addlist"] = []
```

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```
def add(self, v):
```

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```
R"""Add a value to the counter
```

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Add the value `v` to the counter. This value will automatically be subtracted from the counter after `period` seconds.

```
"""
```

```
self.__dict__["_val"] = self.val + v
```

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```
self._addlist.append((time.time()+self.period, v))
```

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```
def sub(self, v):
```

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