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# **remind-me-some**

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**Audrow Nash**

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Schedules some number of items that are due today.

Tasks that you don't get to are weighted to be more heavily in the future.



## FEATURES

- Repeatedly schedules tasks at a specified frequency
- Schedule a set number or less tasks each day
- Tasks that don't get done or scheduled will increase in priority
- Tested on Python 3.6, 3.7, and 3.8





## USAGE

```
$ git clone https://github.com/audrow/remind-me-some
$ pip install remind-me-some
```

```
from datetime import date, timedelta
from remind_me_some.goal import Goal
from remind_me_some.schedule_manager import ScheduleManager

goals = (
    ("Call Mom", timedelta(weeks=1)),
    ("Call Dad", timedelta(weeks=1)),
    ("Call Grandma", timedelta(weeks=2)),
    ("Call Grandpa", timedelta(weeks=2)),
    ("Call Cousin", timedelta(weeks=4)),
    ("Call Uncle", timedelta(weeks=4)),
)
goals_ = []
for goal in goals:
    goals_.append(Goal(name=goal[0], frequency=goal[1]))

sm = ScheduleManager()
sm.add_goals(*goals_)
sm.update_schedule()
print(sm)
sm.run() # run the callback for the scheduled action
sm.run() # clear the action if it's completed
print(sm)
```



## API DOCUMENTATION

If you are looking for information on a specific function, class, or method, this part of the documentation is for you.

### 3.1 Developer Interface

This part of the documentation covers all the interfaces of Remind-Me-Some.

#### 3.1.1 Schedule Manager

```
class remind_me_some.ScheduleManager (max_actions_per_day: int = 1, is_exclude_date_fn: Callable[[datetime.date], bool] = <function is_exclude_date>)
```

The schedule manager class.

```
__init__ (max_actions_per_day: int = 1, is_exclude_date_fn: Callable[[datetime.date], bool] = <function is_exclude_date>) → None  
Initialize the schedule manager.
```

##### Parameters

- **max\_actions\_per\_day** – The max number of actions that should occur on any day.
- **is\_exclude\_date\_fn** – A function that return True if a date should be excluded and false otherwise. This can be used to avoid scheduling actions on weekends, holidays, etc.

##### **property actions**

Get the active actions.

**Returns** A list of active actions.

```
add_goal (goal: remind_me_some.goal.Goal) → None  
Add one new goal.
```

**Parameters goal** – A goal to add.

```
add_goals (*goals: remind_me_some.goal.Goal) → None  
Add one or more new goals.
```

**Parameters goals** – One or more goals.

##### **property goals**

Get the current goals.

**Returns** A list of current goals.

**run** () → None  
Execute or complete ready actions.

**update\_schedule** () → None  
Update the schedule to balance actions.

### 3.1.2 Exclude Date Function

`remind_me_some.is_exclude_date` (*date\_*: *datetime.date*, *is\_exclude\_holidays*: *bool = True*,  
*is\_exclude\_weekends*: *bool = True*, *is\_exclude\_friday*: *bool = False*) → *bool*

Return True if a date should be excluded.

#### Parameters

- **date** – The date to consider.
- **is\_exclude\_holidays** – True if you would like to exclude holidays.
- **is\_exclude\_weekends** – True if you would like to exclude weekends.
- **is\_exclude\_friday** – True if you would like to exclude Fridays.

**Returns** True if the date should be excluded; false otherwise.

### 3.1.3 Data Structures

#### Goal class

**class** `remind_me_some.Goal` (*name*: *str*, *frequency*: *datetime.timedelta*, *priority*: *float = 1.0*, *interest\_rate*: *float = 0.05*, *last\_completed*: *Optional[datetime.date] = None*,  
*callback*: *Optional[Callable] = None*, *is\_ready\_fn*: *Optional[Callable] = None*, *is\_completed\_fn*: *Optional[Callable] = None*)

Bases: `remind_me_some.event.Event`

The goal class.

**\_\_init\_\_** (*name*: *str*, *frequency*: *datetime.timedelta*, *priority*: *float = 1.0*, *interest\_rate*: *float = 0.05*,  
*last\_completed*: *Optional[datetime.date] = None*, *callback*: *Optional[Callable] = None*,  
*is\_ready\_fn*: *Optional[Callable] = None*, *is\_completed\_fn*: *Optional[Callable] = None*) → None

Initialize a goal object.

Goal objects are used to create action objects at some frequency. Most of the information given to the goal object is used to create new action objects.

#### Parameters

- **name** – The name of the event.
- **frequency** – How often this goal should be completed.
- **priority** – The starting priority an action this goal generates (for determining its relative importance).
- **interest\_rate** – The rate that the priority of a generated action grows each day it is pushed back past its original due date.
- **last\_completed** – The date that this goal was last completed.
- **callback** – A function to be called when a generated action is run.

- **is\_ready\_fn** – A function to determine if a generated action is ready. If nothing is supplied this will default to be on or after the action’s due date.
- **is\_completed\_fn** – A function to determine if the generated action has been completed. If nothing is supplied, this will default to be true if the callback has been called at least once.

**property last\_completed**

Get the date when this goal was last completed.

**Returns** The last date that this goal was completed or None, if it hasn’t been completed yet.

**make\_action** () → remind\_me\_some.action.Action

Generate a new action instance.

**Returns** An action object.

**mark\_as\_completed** () → None

Set the last completed date to today’s date.

**Action class**

```
class remind_me_some.Action(name: str, due: datetime.date, priority: float, interest_rate:
    float, callback: Optional[Callable[], None] = None, is_ready_fn:
    Optional[Callable[], bool] = None, is_completed_fn: Op-
    tional[Callable[], bool] = None)
```

Bases: *remind\_me\_some.event.Event*

The action class.

```
__init__(name: str, due: datetime.date, priority: float, interest_rate: float, callback: Op-
    tional[Callable[], None] = None, is_ready_fn: Optional[Callable[], bool] = None,
    is_completed_fn: Optional[Callable[], bool] = None) → None
```

Initialize an action.

**Parameters**

- **name** – The name of the action.
- **due** – The planned date for the action to be completed on.
- **priority** – The priority of the action (for determining its relative importance).
- **interest\_rate** – The rate that the priority of the action grows each day it is pushed back past its original due date.
- **callback** – A function to be called when the action is run.
- **is\_ready\_fn** – A function to determine if the action is ready. If nothing is supplied this will default to be on or after the action’s due date.
- **is\_completed\_fn** – A function to determine if the action has been completed. If nothing is supplied, this will default to be true if the callback has been called at least once.

**is\_due** () → bool

Check if the current action is due.

**Returns** True if the current date is the due date or after; False, otherwise.

**push\_forward** (days: int = 1) → None

Bump the due date of the current action and add interest.

**Parameters** **days** – The number of days to bump the due date by.

## Event class

```
class remind_me_some.event.Event (name: str, priority: float, interest_rate: float, callback: Optional[Callable[], None] = None, is_ready_fn: Optional[Callable[], bool] = None, is_completed_fn: Optional[Callable[], bool] = None)
```

The event class.

```
__init__ (name: str, priority: float, interest_rate: float, callback: Optional[Callable[], None] = None, is_ready_fn: Optional[Callable[], bool] = None, is_completed_fn: Optional[Callable[], bool] = None) → None  
Initialize an event.
```

### Parameters

- **name** – The name of the event.
- **priority** – The priority of the event (for determining its relative importance).
- **interest\_rate** – The rate that the priority of the event grows each step it is pushed back past its original due date.
- **callback** – A function to be called when the event is run.
- **is\_ready\_fn** – A function to determine if the event is ready. If nothing is supplied, this will default to be true if the event has not been completed.
- **is\_completed\_fn** – A function to determine if the event has been completed. If nothing is supplied, this will default to be true if the callback has been called at least once.

```
callback () → Any  
Call the event's callback.
```

**Returns** Whatever the callback returns.

```
is_called () → bool  
Check if the event has been called.
```

**Returns** True if the callback has been called at least once; false otherwise.

```
is_completed () → bool  
Check if an event has been completed.
```

**Returns** True if the is completed function returns true; false otherwise.

```
is_due () → bool  
Check if the event is due.
```

**Returns** True if the completion function doesn't return true; false otherwise.

```
is_ready () → bool  
Check if an event is ready.
```

**Returns** True if the ready function returns true and the event has not been completed; false otherwise.

```
push_forward (steps: int = 1) → None  
Increase the priority of event by applying interest.
```

**Parameters** **steps** – The number of times to apply the interest rate to the event's priority.

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CHAPTER  
**FOUR**

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**ISSUES**

If you encounter any problems, please [file an issue](#) along with a detailed description.





## ABOUT REMIND-ME-SOME

Remind-Me-Some was created by [Audrow Nash - audrow@hey.com](mailto:audrow@hey.com)

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