



Routin

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Introduction

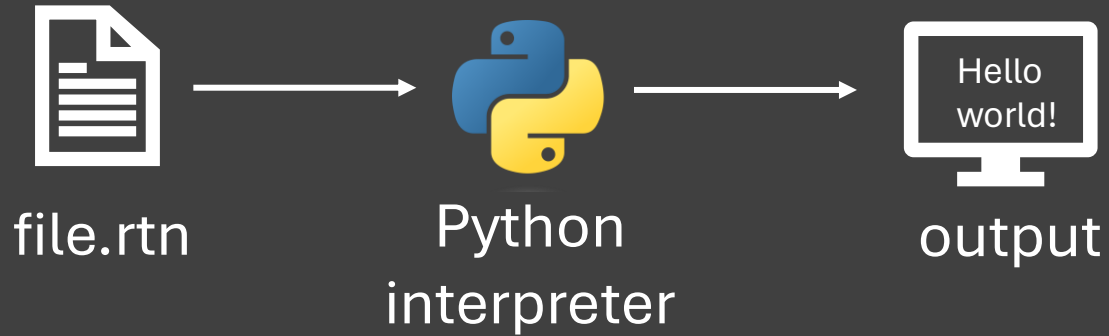
Have you ever felt drowned by the amount of work and things to organize in your daily life?

Routin is a programming language designed to help you build and maintain habits. It also helps you easily check for free time in your schedule and match free time hours with friends and family.



Features

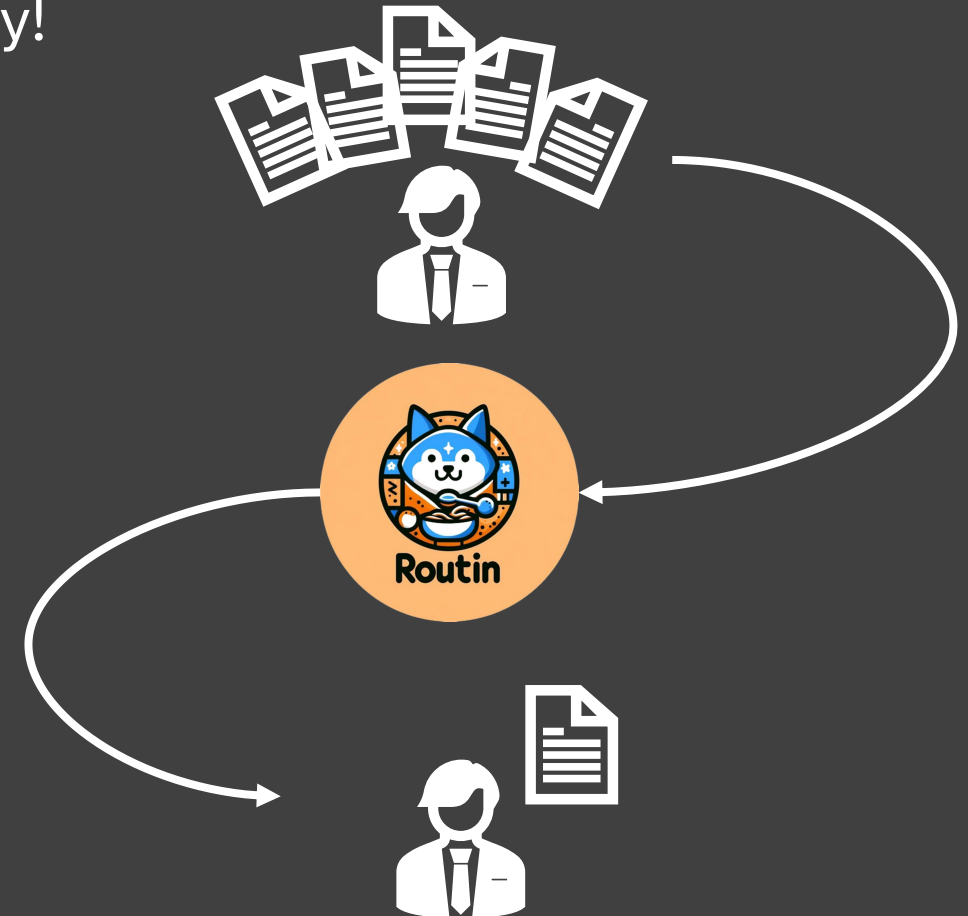
- Interpreted language



- The syntax is inspired in Lua and Python itself



- Routin has native methods that can help you have a more productive day!



Syntax and Examples

- Create routine

```
routine my_routine = (  
  [("read book", 1), ("gym", 2), ("study", 4)] ,  
  [(0-6), (13-16), (21-24)])
```

(0-6)

Study (6-10)

Gym (10-12)

Read (12-13)

(13-16)

(16-21)

(21-24)

Tasks requiring more time are prioritized. Additionally, all tasks are included in the first available slot they can fit into.

- Free time
- Task
- Blocked time

- Create routine

```
availability(my_routine, i)
```

You can check the availability in your routine by passing a routine object and an hour (an integer between 0 and 24). The output will be True if the hour is free and False if it is blocked or has a task.

Syntax and Examples

- Add routine

```
my_routine.add_task("meeting", 2)
```

You can always add new tasks to your routine. If you don't have time to complete a task, the code will notify you!

- Delete routine

```
my_routine.del_task("study")
```

You can also delete tasks from your routine and rearrange today's duties in the way that best fits you!

Code Example

```
local my_routine
routine my_routine = (
  [("read book", 1), ("gym", 2), ("study", 4)],
  [(0,6), (13,16), (21,24)])

local i = 0
while i < 25 {
  if availability(my_routine, i) {
    print(i)
  }
  i = i + 1
}

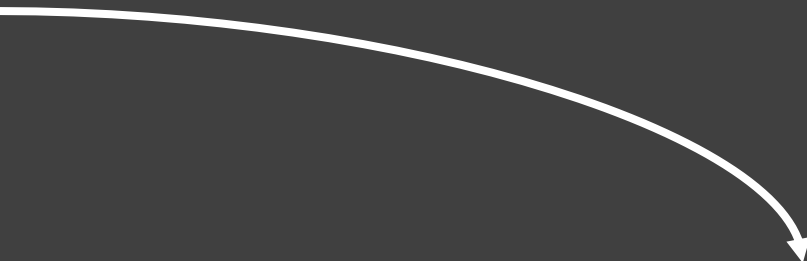
print(my_routine)

my_routine.add_task("meeting", 2)
my_routine.del_task("study")

local j = 0
while j < 25 {
  if availability(my_routine, j) {
    print(j)
  }
  j = j + 1
}

print(my_routine)
```

The output of this code would be:



```
16
17
18
19
20
Free time: [16, 17, 18, 19, 20]
Tasks time: [('study', 6, 10), ('gym', 10, 12), ('read book', 12, 13)]

6
7
8
9
18
19
20
Free time: [6, 7, 8, 9, 18, 19, 20]
Tasks time: [('gym', 10, 12), ('read book', 12, 13), ('meeting', 16, 18)]
```