Tip-Top ! Documentation

Release 0.1

Romain Neutron

June 20, 2013

CONTENTS

1 Introduction 1

2 Disclaimer 3

3 Limitations 5

4 Installation 7

5 Basic Usage 9

6 Handling Exceptions 11

7 Report a bug 13

8 Ask for a feature 15

9 Contribute 17

10 Run tests 19

11 About 21

12 License 23

CHAPTER

ONE

INTRODUCTION

Tip-Top is a PHP micro-library to set timers and timeouts in your PHP code. It is based on *SIGALRM* signal, so it requires both posix and pcntl extensions.

CHAPTER

TWO

DISCLAIMER

Due to PHP, timers and timeout may be triggered lately in case you use blocking calls like `sleep(5)`.

A common workaround for *sleep* is to iterate 1 seconds sleeps : `for ($i=0; $i!=5; $i++;) {sleep(1);}`.

CHAPTER

THREE

LIMITATIONS

- `Neutron\TipTop\Clock` requires you declare ticks in the script you're running.
- `Neutron\TipTop\Clock` may not work as expected with blocking calls (try it before)

CHAPTER

FOUR

INSTALLATION

We rely on composer to use this library. If you do no still use composer for your project, you can start with this `composer.json` at the root of your project:

```
{
    "require": {
        "neutron/tip-top": "0.1.x-dev"
    }
}
```

Install composer :

```
# Install composer
curl -s http://getcomposer.org/installer | php
# Upgrade your install
php composer.phar install
```

You now just have to autoload the library to use it :

```
<?php
require 'vendor/autoload.php';
```

This is a very short intro to composer. If you ever experience an issue or want to know more about composer, you will find help on their website http://getcomposer.org/.

CHAPTER

FIVE

BASIC USAGE

You **MUST** declare ticks in the script where you're using `Neutron\TipTop\Clock`, it is mandatory for the clock to work.

```php
<?php
use Neutron\TipTop\Clock;

// mandatory for the clock to work
declare(ticks=1);

$clock = new Clock();

// trigger a callback every second
$clock->addPeriodicTimer(1, function () { echo "BOOM ! I'm triggered every second !\n"; });

// trigger a callback every ten seconds, five times
$clock->addPeriodicTimer(10, function () { echo "Doubidou\n"; }, 5);

// trigger a callback one time, in 3 seconds
$signature = $clock->addTimer(3, function () { echo "BOOM !\n"; }, 1);

// remove a timer identified by a signature
$clock->clear($signature);

// do your job
$n = 10;
while ($n > 0) {
    sleep(1);
    $n--;
}
```

CHAPTER

SIX

HANDLING EXCEPTIONS

CHAPTER

SEVEN

REPORT A BUG

If you experience an issue, please report it in our issue tracker. Before reporting an issue, please be sure that it is not already reported by browsing open issues.

CHAPTER

EIGHT

ASK FOR A FEATURE

We would be glad you ask for a feature ! Feel free to add a feature request in the issues manager on GitHub !

CHAPTER

NINE

CONTRIBUTE

You find a bug and resolved it ? You added a feature and want to share ? You found a typo in this doc and fixed it ? Feel free to send a Pull Request on GitHub, we will be glad to merge your code.

CHAPTER

TEN

RUN TESTS

Tip Top ! relies on PHPUnit for unit tests. To run tests on your system, ensure you have PHPUnit installed, and, at the root of the project, execute it :

```
phpunit
```

CHAPTER

ELEVEN

ABOUT

Tip Top ! has been written by Romain Neutron based on a Bulat Shakirzyanov gist.

CHAPTER

TWELVE

LICENSE

RabbitMQ Management API client is licensed under the MIT License