
Caipyrinha Documentation

Release 0.2.2

JuanBC

October 01, 2013

CONTENTS

Contents:

INSTALLATION GUIDE

```
$ easy_install caipyrinha
```

or

```
$ pip install caipyrinha
```

1.1 Installing Manually

The project is hosted at <http://bitbucket.org/leliel12/caipyrinha/> and can be installed manually:

```
$ hg clone https://bitbucket.org/leliel12/caipyrinha
```

```
$ cd caipyrinha
```

```
$ python setup.py install
```

CAIPYRINHA MODULE

Abstraction layer over argparse.

Caipyrinha added 2 methods to `argparse.ArgumentParser`, `callback` and `parse_wc`. Also a `Caipyrinha` instance is callable and is equal to use `parse_wc` method.

Example of use:

```
# ex.py

import caipyrinha

parser = caipyrinha.Caipyrinha(prog="Your Program")
parser.add_argument("--version", action='version', version="% (prog)s 0.1")

@parser.callback(exit=0, exclusive="group1")
def first(flags, returns):
    '''Execute this option and exit'''
    print "bye bye"

@parser.callback(action="store")
def second(flags, returns):
    '''set his own return value with his parameter'''
    return flags.second

@parser.callback("--third", exclusive="group1")
def no_used_name(flags, returns):
    '''you cant use this argument with first'''
    print returns.second

import sys
parser(sys.argv[1:])
```

Usage

```
$ python ex.py --help
usage: Your Program [-h] [--version] [--first] [--second SECOND] [--third]
```

optional arguments:

```
-h, --help            show this help message and exit
--version             show program's version number and exit
--first              Execute this option and exit
--second SECOND      set his own return value with his parameter
--third              you cant use this argument with first
```

```
$ python ex.py --first
bye bye
```

```
$ python ex.py --first --second "hello from second"
bye bye
$ python ex.py --first --second "hello from second" --third
usage: Your Program [-h] [--version] [--first] [--second SECOND] [--third]
Your Program: error: argument --third: not allowed with argument --first
$ python ex.py --second "hello from second" --third
hello from second
```

class caipyrinha.**Caipyrinha** (*args, **kwargs)

Bases: `argparse.ArgumentParser`

Easy argument parser in the top of `argparse`

add_mutually_exclusive_group (name, required=False)

Add a mutually exclusive group as `argparse.Argparse` but identified by a name. If the name already exists the same group is returned. If name exists and `required` is different this method change the `required` value.

callback (*args, **kwargs)

Decorator for create a new argument and add the function decorated as a callback if the command line argument exists.

IMPORTANT: The callbacks are called in the same order as you declared it.

Support the same `*args` and `**kwargs` of `add_argument` method. Also support the `exclude` parameter if you want to set the callback in a mutually exclusive group, and `exit` (must be an int and the default is `None`) if you want to exit after execute this callback using this value as exit code.

The function to be decorated must accept 2 arguments `flags` (the flag status of the parser) and `returns` (the return values of the previous callbacks)

If you don't set the long (`--name`) or short (`-n`) option, the name of the function is used as long option. The action by default is `store` if `nargs` params is setted otherwise `store_true`.

for more information please see the [argparse](#) documentation

parse_wc (args)

Parse the arguments and execute the callbacks.

Returns The flags and the returns of all the callbacks.

INDICES AND TABLES

- *genindex*
- *modindex*
- *search*

PYTHON MODULE INDEX

C

caipyrinha, ??