fishbase Documentation

Release 1.0.12

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CHAPTER 1

1.1 2018.5.30 v1.0.13

- 19037, common and system, function `check_platform()` move to fish_system rename to *`fish_system.get_platform()`*;
- 19038, common, add function *`fish_common.get_uuid()`*, edit `fish_common.get_time_uuid`, add doc and unittest;
- 19039, logger, edit function *`fish_logger.set_log_file()`* by `class SafeFileHandler()`, prevent the multi process delete log file error;
- 19040, file, edit function *`fish_file.get_abs_filename_with_sub_path()`*, thanks to Wu Yanan;
- 19041, file, delete function `check_kind_path_file()`;
- 19042, file, edit function *`fish_file.check_sub_path_create()`*, optimize, doc and unittest;
- 19043, common, edit function *`fish_common.sorted_list_from_dict()`*, optimize, doc and unittest;
- 19044, file, remove `auto_add_file_ext()`;
- 19045, file, remove `get_abs_filename_with_sub_path_module()`;

1.2 2018.5.21 v1.0.12

- 19035, rename package 'fish_base' to 'fishbase'

1.3 2018.5.18 v1.0.11

- 19011, 19011ok
- 19015, `common conf_as_dict()` docstring ok
- 19016, sphinx api ok

- 19017, `conf_as_dict()` doc ok
- 19018, __init__.py `get_ver()` ok
- 19019, common `class SingleTon()` docstring ok
- 19020, csv `csv_file_to_list()` docstring ok
- 19021, common fish_common, csv fish_csv, fish ok
- 19022, sphinx doc theme rtd themehttps://sphinx-rtd-theme.readthedocs.io/en/latest/ , ok
- 19023, logger `set_log_file()` docstring ok
- 19024, fish_file docstring ok
- 19025, common, `get_md5()` ok
- 19026, common, `class GetMD5` md5ok
- 19027, test, unittest common ok
- 19028, common, `conf_as_dict()` ok
- 19029, common, `json_contained()` json ok
- 19030, common, `splice_url_params()` ok
- 19031, requirements.txt; ok
- 19032, .travis.yml, ; ok
- 19033, coveralls.io ut ; python 2.7.15 ; ok
- 19034, __init__.py setup.py __version__ ; ok

1.4 2018.3.20 v1.0.10

- 19006, `get_time_uuid()`, ok
- 19007, `if_any_elements_is_space()`, None ok
- 19008, common `conf_as_dict()`,; ok
- 11001,
- 11002, csv `csv_file_to_list()`; ok
- 11003, fish_file file fish_file; ok
- 11004, file `get_abs_filename_with_sub_path()` ok
- 11005, fish_date date, demo/demo_date.py ok
- 11006, setup.py setup.py ok
- 11007, pip `python-dateutil` ; ok
- 11008, `check_platform()` system
- 11009, csv, `csv_file_to_list()` ok
- 11010, logger, log ; ok
- 11011, demo, test test log demo ; ok
- 11013, demo, `common.conf_as_dict()` demo ok

- 11014, common, `conf_as_dict()` ok
- 11015, common `class SingleTon`ok

CHAPTER 2

API

2.1 fish_common

fish_common.conf_as_dict(conf_filename)	ini
fish_common.get_uuid(kind)	uuid uuid Python uuid
fish_common.GetMD5.string(s)	MD5
fish_common.GetMD5.file(filename)	MD5
fish_common.GetMD5.big_file(filename)	MD5
fish_common.if_json_contain(left_json, ...)	json json key value
fish_common.SingleTon	
fish_common.sorted_list_from_dict(p_dict[, ...])	value
fish_common.splice_url_params(dic)	url ? ?key1=value1&key2=value2

fish_common

class fish_common.**GetMD5**

Python hashlib.md5()

:

```
print('--- md5 demo ---')
print('string md5:', GetMD5.string('hello world!'))
print('file md5:', GetMD5.file(get_abs_filename_with_sub_path('test_conf', 'test_
↪conf.ini')[1]))
print('big file md5:', GetMD5.big_file(get_abs_filename_with_sub_path('test_conf',
↪ 'test_conf.ini')[1]))
print('---')
```

:

```
string md5: fc3ff98e8c6a0d3087d515c0473f8677
```

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```
file md5: fb7528c9778b2377e30b0f7e4c26fef0
big file md5: fb7528c9778b2377e30b0f7e4c26fef0
```

static big_file(*filename*)
MD5

Param

- (string) filename hash

Returns

- (string) result 32 MD5

static file(*filename*)
MD5

Param

- (string) filename hash

Returns

- (string) result 32 MD5

static string(*s*)
MD5

Param

- (string) str hash

Returns

- (string) result 32 MD5

class fish_common.**SingleTon** **Param**

Returns

:

```
print('--- class singleton demo ---')
t1 = SingleTon()
t1.x = 2
print('t1.x:', t1.x)

t2 = SingleTon()

t1.x += 1

print('t1.x:', t1.x)
print('t2.x:', t2.x)
print('---')
```

:

```
--- class singleton demo ---
t1.x: 2
t1.x: 3
t2.x: 3
---
```

fish_common.**conf_as_dict**(*conf_filename*)

ini

Param

- conf_filename: (string) ini

Returns

- flag: (bool) True False
- d: (dict)
- count: (int) key

:

```
print('--- conf_as_dict demo---')
#
conf_filename = 'test_conf.ini'
#
ds = conf_as_dict(conf_filename)
#  dict dict  key
print('flag:', ds[0])
print('dict:', ds[1])
print('length:', ds[2])

d = ds[1]

#  section
print('section show_opt:', d['show_opt'])
#  section  key  value
print('section show_opt, key short_opt:', d['show_opt']['short_opt'])

# section key  count  key  value
i = int(d['get_extra_rules']['erule_count'])
print('section get_extra_rules, key erule_count:', i)
for j in range(i):
    print('section get_extra_rules, key erule_type:', d['get_extra_rules']['erule_
↪'+str(j)])
print('---')
```

:

```
--- conf_as_dict demo---
flag: True
dict: (omit)
length: 7
section show_opt: {'short_opt': 'b:d:v:p:f:', 'long_opt': 'region=,prov=,mer_id=,
↪mer_short_name=,web_status='}
section show_opt, key short_opt: b:d:v:p:f:
section get_extra_rules, key erule_count: 2
section get_extra_rules, key erule_type: extra_rule_1
section get_extra_rules, key erule_type: extra_rule_2
---
```

fish_common.**get_uuid**(*kind*)

uuid uuid Python uuid

get_time_uuid() uuid v1.0.12

Param

- kind: (int) uuid udTime udRandom

Returns

- result: (string) 66b438e3-200d-4fe3-8c9e-2bc431bb3000 uuid

:

```
print('--- uuid demo ---')
# uuid
for i in range(2):
    print(get_uuid(udTime))

print('---')

#  uuid
for i in range(2):
    print(get_time_uuid())

print('---')

# uuid
for i in range(2):
    print(get_uuid(udRandom))

print('---')
```

:

```
--- uuid demo ---
c8aa92cc-60ef-11e8-aa87-acbf52d15413
c8ab7194-60ef-11e8-b7bd-acbf52d15413
---
c8ab7368-60ef-11e8-996c-acbf52d15413
c8ab741e-60ef-11e8-959d-acbf52d15413
---
8e108777-26a1-42d6-9c4c-a0c029423eb0
8175a81a-f346-46af-9659-077ad52e3e8f
---
```

fish_common.**if_json_contain**(*left_json*, *right_json*, *op='strict'*)

json json key value

Param

- left_json: (dict) json left
- right_json: (dict) json right left right
- op: (string) strict

Returns

- result: (bool) right json left json key value True False

:

```
print('--- json contain demo ---')
json1 = {"id": "0001"}
json2 = {"id": "0001", "value": "File"}
print(if_json_contain(json1, json2))
print('---')
```

:

```
True
```

fish_common.**sorted_list_from_dict**(*p_dict*, *order=10011*)

value

Param

- p_dict: (dict)
- order: (int) odASC odDES

Returns

- o_list: (list) list

:

```
#
dict1 = {'a_key': 'a_value', '1_key': '1_value', 'A_key': 'A_value', 'z_key': 'z_
↪value'}
print(dict1)
#
list1 = sorted_list_from_dict(dict1, odASC)
print('ascending order result is:', list1)
#
list1 = sorted_list_from_dict(dict1, odDES)
print('descending order result is:', list1)
```

:

```
{'a_key': 'a_value', 'A_key': 'A_value', '1_key': '1_value', 'z_key': 'z_value'}
ascending order result is: ['1_value', 'A_value', 'a_value', 'z_value']
descending order result is: ['z_value', 'a_value', 'A_value', '1_value']
```

fish_common.**splice_url_params**(*dic*)

url ? ?key1=value1&key2=value2

Param

- dic: (dict)

Returns

- result: (string)

:

```
dic1 = {'key1': 'value1', 'key2': 'value2'}
print(splice_url_params(dic1))
```

:

```
?key1=value1&key2=value2
```

2.2 fish_system

fish_system

fish_system.**get_platform**()
, sys.platform() ;

Param

•

Returns

• platform: (string) linux, osx, win

:

```
print('current os:', get_platform())
```

:

```
current os: osx
```

2.3 fish_file

fish_file

fish_file

fish_file.**check_sub_path_create**(*sub_path*)
,

Param

• sub_path: (string)

Returns

• (tuple)

• True: False:

• False: True:

:

```
#
sub_path = 'demo_sub_dir'
#
print('check sub path:', sub_path)
result = check_sub_path_create(sub_path)
print(result)
```

:

```
check sub path: demo_sub_dir
(True, False)
```

fish_file.**get_abs_filename_with_sub_path**(*sub_path*, *filename*) **Param**

• sub_path: (string)

• filename: (string)

Returns

- (tuple) flag
- flag: (bool) True False
- abs_filename: (string) filename

:

```
print('get_abs_filename_with_sub_path')
# define sub dir
path_name = 'sub_dir'
# define not exists file
filename = 'test_file.txt'

abs_filename = get_abs_filename_with_sub_path(path_name, filename)
# return False and abs filename
print(abs_filename)

# define exists file
filename = 'demo.txt'
abs_filename = get_abs_filename_with_sub_path(path_name, filename)
# return True and abs filename
print(abs_filename)
```

:

```
(False, '/Users/****/Documents/dev_python/fishbase/demo/sub_dir/test_file.txt')
(True, '/Users/****/Documents/dev_python/fishbase/demo/sub_dir/demo.txt')
```

2.4 fish_csv csv

fish_csv.**csv_file_to_list**(*csv_filename*, *deli=', '*, *del_blank_row=True*)

csv list

Param

- csv_filename: (string) csv
- deli: (string) csv
- del_blank_row: (string)

Returns

- csv_list: (list) list

:

```
from fishbase.fish_file import *
from fishbase.fish_csv import *

def test_csv():
    csv_filename = get_abs_filename_with_sub_path('csv', 'test_csv.csv')[1]
    print(csv_filename)
    csv_list = csv_file_to_list(csv_filename)
    print(csv_list)
```

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```
if __name__ == '__main__':
    test_csv()
```

2.5 fish_logger

fish_logger

set_log_file()

fish_logger.**set_log_file**(*local_file=None*)

info fish_test.log.2018-05-27

Param

- local_fie: (string)

Returns

:

```
from fishbase.fish_logger import *
from fishbase.fish_file import *

log_abs_filename = get_abs_filename_with_sub_path('log', 'fish_test.log')[1]

set_log_file(log_abs_filename)

logger.info('test fish base log')
logger.warn('test fish base log')
logger.error('test fish base log')

print('log ok')
```

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