ufp Documentation

1.14

2015 06 14

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5 **33**

Python **35**

pyufp python . ufp . : https://github.com/Thestars3/pyufp.

CHAPTER 1

ufp python . , .

1.1

- PKCS#5
- html
- html
- Improved Gray Scale(IGS)
-
-
-
-
-
-
-
-
- url
-
-
-
-
-
- pdf bmp
-
-
-
-

-
-
- requests
- ...

1.2

Linux / Unix / MaxOS / POSIX

1.3

1.3.1

: http://runnable.com/VQ5dcHQEFNQakHJ3/generate-unique-path-at-filepath-or-dirpath-for-python

```
>>> import ufp.path
>>> import os
>>> os.listdir('.')
['test.file']
>>> ufp.path.unique('./test.file')
./test (d1).file
>>> f.open('./test (d1).file', 'w').close()
>>> ufp.path.unique('./test.file')
./test (d2).file
```

1.3.2 pdf bmp

: http://runnable.com/VQ-PD6EuyEYfeJNo/convert-pdf-to-bmp-for-python

```
>>> import ufp.pdf
>>> with open('page1.pdf') as f:
>>>     pdf = f.read()
>>> for bmp in ufp.pdf.toBmps(pdf, dpi=200):
>>>     break
>>> with open('page1.bmp') as f:
>>>     f.write(bmp)
```

1.3.3

: http://runnable.com/VQ5WVo8OIogZ-_hv/trim-image-edge-whitespace-with-fuzz-for-python

```
>>> import ufp.image
>>> import PIL.Image
>>> im = PIL.Image.open('test.jpg', 'r')
>>> ufp.image.trim(im, fuzz=13.3).save('trim.jpg')
```

1.3.4 Improved Gray Scale(IGS)

: http://runnable.com/VQ5o_OpMIyQdA6zE/image-quantize-by-improved-gray-scale-for-python

```
>>> import ufp.image
>>> import PIL.Image
>>> im = PIL.Image.open('test.jpg', 'r')
>>> im = im.convert('L')
>>> ufp.image.quantizeByImprovedGrayScale(im).save('igs.jpg')
```

1.3.5

```
>>> import ufp.path
>>> for root, dirs, files in ufp.path.walk('.', maxDepth=0):
...             print(root, dirs, files)
...
'.', ['ufp'], []
```

1.3.6 html text

```
>>> import ufp.html
>>> import requests
>>> html = requests.get('http://www.gnu.org/licenses/').content
>>> ufp.html.toText(html.decode('utf8'))
u"Licenses\\n- GNU Project - Free Software Foundation\\n\\n\\n ...
```

1.3.7

```
>>> import ufp.gui
>>> import time
>>> a = ufp.gui.PulseProgress('title', 'message')
>>> a.open(); time.sleep(3); a.close()
```

1.4

: http://pyufp.readthedocs.org/index.html.

1.5

changelog.rst .

1.6

GPL v3

1.7

<w7dn1ng75r@gmail.com>

1.8

2.7 .

1.9

: http://pyufp.readthedocs.org/installation.html

1.10

: https://github.com/Thestars3/pyufp.

: ufp 2.7.

: ufp Linux / Unix / MaxOS / POSIX .

1~3 .

2.1 1.

ufp . w3m, kate, ghostscript, zenity, python-qt4, python-tidylib.

, .

```
$ sudo apt-get install w3m kate ghostscript zenity python-qt4 python-tidylib
```

, .

```
$ sudo yum install w3m kate ghostscript zenity python-qt4 python-tidylib
```

, .

2.2 2. pillow

ufp pillow .

pillow : http://pillow.readthedocs.org/installation.html

2.3 3. ufp

pip , .

```
$ pip install ufp
```

PyPI .

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

2.4

PyPI Github .

CHAPTER 3

3.1

ufp.**cleanSubtitle**(*content*, *type=None*)

.

:

•(mplayer utf8).

•html .

•smi sami .

: , smi, ass .

: .

• **content** (*unicode, bytes*) – .

• **type** – .

u'smi': smi . u'ass': ass . None: smi, ass .

.

unicode

ufp.**trashPut**(*target*)

.

trashcli trash-put .

taget (*unicode*) –

True.

False.

bool

3.2 cipher

cipher , .

ufp.cipher.**unpadPkcs5**(*data*)
PKCS#5 .

data (bytes) –

bytes

3.3 html

ufp.html.**clean**(*html*, *inputEncoding=u'utf8'*)
html xhtml .

- **html** (*unicode, bytes*) – html
- **inputEncoding** (*unicode*) –

xhtml

unicode

ufp.html.**toText**(*html*, *converter=u'pattern.web'*, *linebreaks=10*, *strip=False*, *replace=None*)
html .

.

```
>>> import ufp.html
>>> import requests
>>> html = requests.get('http://www.gnu.org/licenses/').content
>>> ufp.html.toText(html.decode('utf8'))
u"Licenses\n- GNU Project - Free Software Foundation\n\n\n ...
```

- **html** (*unicode*) – html
- **converter** (*unicode*) –

  w3m : w3m .

  pattern.web : pattern(http://www.clips.ua.ac.be/pattern) .
- **replace** (*{unicode:(unicode, unicode)}, None*) – . . { : (,)}. , replace {'h1':('>', '<')} , "<h1>!<h1>" ">!<" . None , . (pattern.web)
- **linebreaks** (*int, None*) – . '\n' linebreaks . '\n' . None . None 1 .
- **strip** (*bool*) – .

ValueError

text

unicode

3.4 image

ufp.image.**changeColorDepth**(*image*, *colorCount*)

.

.

ValueError

- **image** (*PIL.Image*) – PIL.Image . L, RGB, RGBA .
- **colorCount** (*int*) – . , .

PIL.Image

PIL.Image

ufp.image.**mostPopularEdgeColor**(*image*)
(left,right,top,bottom) .

image (*PIL.Image*) – PIL

((R,G,B))

L ().

ufp.image.**quantizeByImprovedGrayScale**(*image*, *colorCount=256*)
Improved Gray Scale(IGS) .

.

.

```
>>> import ufp.image
>>> import PIL.Image
>>> im = PIL.Image.open('test.jpg', 'r')
>>> im = im.convert('L')
>>> ufp.image.quantizeByImprovedGrayScale(im).save('igs.jpg')
```

ValueError

- **image** (*PIL.Image*) – . L .
- **colorCount** (*int*) – . . , , .

PIL.Image

ufp.image.**trim**(*image*, *backgroundColor=None*, *fuzz=0*)

.

, . , . . (backgroundColor .)

.

```
>>> import ufp.image
>>> import PIL.Image
>>> im = PIL.Image.open('test.jpg', 'r')
>>> ufp.image.trim(im, fuzz=13.3).save('trim.jpg')
```

: fuzz , .

: fuzz , .

- **ValueError** – fuzz
- **ValueError** –

- **image** (*PIL.Image*) – (PIL) . , RGB, L .
- **backgroundColor** – “ ” (RGB: 3). , tuple(0,0,255) . , . , . , L .
- **fuzz** (*int, float*) – float int(0~99.9). .

PIL.Image .

, .

PIL.Image

3.5 dict

class ufp.dict.**Lazy**(*dict=None*)

Bases: UserDict.UserDict

.

, .

.

```
>>> import ufp.dict
>>> from ufp.terminal.debug import print_ as debug
>>> dict = ufp.dict.Lazy()
>>> def function():
...     debug('inited...')
...     return 10
...
>>> dict.add('lazyInitValue', function, True)
>>> dict['lazyInitValue']
[DEBUG] inited...
10
>>> dict['lazyInitValue']
10
```

add(*key*, *value*, *lazyInit=False*)

.

- **key** –
- **value** –
- **lazyInit** – . True .

items()
UserDict.UserDict.items .

setLazyInit(*key*, *lazyInit*)
.

- **key** –
- **lazyInit** – . True .

values()
UserDict.UserDict.values .

ufp.dict.**setdefault**(*dict*, *key*, *default*, *empty=None*)
dict key , default . , key empty default .

empty __eq__ . None .

- **dict** (dict) –
- **key** –
- **default** –
- **empty** – empty default .

3.6 path

ufp.path.**dirname**(*path*)
.

‘abc’ , ‘.’.

: os.path.dirname(‘asd’) -> ‘’ .

---

path (*unicode*) – .

unicode

ufp.path.**extension**(*fileName*)
.

fileName (*unicode*) – .

‘../asd/.qwe’ ( ) .

, ( ) .

unicode

ufp.path.**filename**(*filePath*)
.

filePath (*unicode*) – .

, ‘../asd/.qwe.tar.bz2’ ‘.qwe.tar’ .

unicode

ufp.path.**listdir**(*path*, ***options*)
pattern .

- **path** (*unicode*) –
- **pattern** – ( )

  string :

  [string, ...]:

  None:
- **patternReverse** (*bool*) – True : .

  False : .
- **fullpath** (*bool*) – .

  True : [path + filename, ...]

  False : [filename, ...]
- **sortKey** (*function*) –

  .

list(unicode, ...)

ufp.path.**mergeDir**(*dirPaths*, *destPath*)
dirPaths destPath , dirPath .

. .

- **dirPaths** (*unicode, list(unicode, ...), tuple(unicode, ...)*) – , .
- **destPath** (*unicode*) –

ufp.path.**moveAllContent**(*dirPath*, *destPath*)
dirPath destPath .

. .

- **dirPath** (*unicode*) –
- **destPath** (*unicode*) –

ufp.path.**mtime**(*path*, *format*)
path format .

- **path** (*unicode*) –
- **format** (*unicode*) – (datetime strftime)

path format

unicode

ufp.path.**pjoin**(*parentPath*, *filenames*)
parentPath filenames .

- **parentPath** (*unicode*) –
- **filenames** (*list(unicode, ...)*) – .

. [parentPath/filename, parentPath/filename, ...]

list(unicode, ...)

ufp.path.**remove**(*path*, *force=False*)
.

. .

- **path** (*unicode*) –
- **force** (*bool*) – .

  True : .

  False : Exception , .

ufp.path.**remove_all_content**(*dir*, *force=False*)
dir .

- **dir** (*unicode*) –
- **force** (*bool*) – .

  True : .

  False : Exception , .

ufp.path.**replaceSpiecalChar**(*string*, ***options*)
.

. .

: ( ):
\ / : * ? ” < > |

: ( ):
/

- **string** –
- ****options** – type: u’windows’, u’unix’. . OS . unix.

  keep_path_characters(bool): . type . False.

Tpye string unicode

ufp.path.**toUrl**(*path*)
path file:/// .

path (*unicode*) – .

ex) ../home/ufp

file:///

unicode

ufp.path.**unique**(*targetPath*, *spliteExt=True*)
.

. ‘a/b/c’ , ‘a/b/c d(1)‘ .

.

```
>>> import ufp.path
>>> import os
>>> os.listdir('.')
['test.file']
>>> ufp.path.unique('./test.file')
./test (d1).file
>>> f.open('./test (d1).file', 'w').close()
>>> ufp.path.unique('./test.file')
./test (d2).file
```

targetPath (*unicode*) – .

, .

, .

.

ufp.path.**walk**(*top*, *maxDepth=None*, *onerror=None*, *followlinks=False*)
‘.’ , ‘./a’, ‘./b’ .

.

```
>>> import ufp.path
>>> for root, dirs, files in ufp.path.walk('.', maxDepth=0):
...             print(root, dirs, files)
...
'.', ['ufp'], []
```

- **top** (*unicode*) –
- **onerror** (*function*) – , .
- **followlinks** (*bool*) – .
- **maxDepth** (*int*) – . 0 .

  ex) 0 : .

Yield (unicode), ([unicode, ...]), ([unicode, ...])

3.7 pdf

ufp.pdf.**toBmp**(*pdf*, *format=u'bmp32b'*, *dpi=200*)

pdf bmp .

.

```
import pyPdf
from io import BytesIO
import ufp.pdf

#PDF
buffer = file(srcPath, 'rb')
pdf = pyPdf.PdfFileReader(buffer)

#
for pageNumber in xrange(pdf.getNumPages()):
        #  pdf
        page = pdf.getPage(pageNumber)
        pdfFileWriter = pyPdf.PdfFileWriter()
        pdfFileWriter.addPage(page)
        with BytesIO() as outputStream:
                pdfFileWriter.write(outputStream)
                pageBinary = outputStream.getvalue()
                pass

        #PDF BMP(24-bit RGB Color)
        imageBinary = ufp.pdf.toBmp(pageBinary, format='bmp16m', dpi=200)

        #
        with open('{0}.bmp'.format(pageNumber), 'w') as f:
                f.write(imageBinary)
        pass
```

- **pdf** (bytes) – pdf . 1 pdf .
- **format** (*unicode*) – .

  bmp16m: 24-bit RGB Color

  bmpmono: Black-and-White Color

  bmpgray: Grayscale Color

  bmpsep1:

  bmpsep8:

  bmp16: 4-bit Color

  bmp256: 8-bit Color

  bmp32b: 32-bit RGBA Color
- **dpi** (*int*) – DPI. 200DPI. .

Exception pdf .

BMP

bytes

ufp.pdf.**toBmps**(*pdf*, *format=u'bmp16m'*, *dpi=200*)

pdf bmp .

bmp . .

```
import ufp.pdf

with open('test.pdf', 'r') as f:
        pdf = f.read()

buffer = ufp.pdf.toBmps(pdf, format='bmp16m')
for page, bmp in enumerate(buffer, start=1):
        with open('{0}.bmp'.format(page), 'w') as f:
                f.write(bmp)
```

- **pdf** (bytes) – pdf . .
- **format** (*unicode*) – .

  bmp16m: 24-bit RGB Color

  bmpmono: Black-and-White Color

  bmpgray: Grayscale Color

  bmpsep1:

  bmpsep8:

  bmp16: 4-bit Color

  bmp256: 8-bit Color

  bmp32b: 32-bit RGBA Color
- **dpi** (*int*) – DPI. 200DPI. .

Exception pdf .

Yield BMP (bytes)

3.8 math

ufp.math.**urshift**(*val*, *n*)

.

>>> . '(-1000) >>> 3' 'ufp.math.rshift(-1000, 3)' .

- **val** –
- **n** –

.

3.9 list

ufp.list.**chunks**(*list*, *step*)
list step yield.

, .

```
>>> import ufp.list
>>> for i in ufp.list.chunks(range(20), 5):
...     print(i)
...
[0, 1, 2, 3, 4]
[5, 6, 7, 8, 9]
[10, 11, 12, 13, 14]
[15, 16, 17, 18, 19]
```

- **list** (list) –
- **step** (*int*) –

Yield step . [...]

ufp.list.**preallocate**(*size*, *value=None*)
size list . value .

- **size** (*int*) – .
- **value** – .

size list.

3.10 repr

ufp.repr.**make_object**(*type_name*, *values=[]*, *orderd_items=[]*, *items={}*, ***kwargs*)
repr .

- **type_name** (*unicode, instance*) – . instance , .
- **values** (*[value, ...]*) – . values, args .
- **items** (*{key:value, ...}*) – . orderd_items, items, kwargs .
- **orderd_items** (*[(key,value), ...]*) – . .
- ****kwargs** – .

  items .

u'{type_name}({value}, ..., {key}={value}, ...)'

unicode

ufp.repr.**make_type**(*type_name*, *class_name*)
repr .

- **type_name** (*unicode*) – .
- **class_name** (*unicode, instance*) – .

u"<{type_name} '{class_name}'>"

unicode

3.11 logging

class ufp.logging.**StreamLogger**(*level*, *logger=None*)

Bases: io.IOBase

.

, .

```
>>> import ufp.logging
>>> import subprocess
>>> import logging
>>> logging.setLevel(logging.DEBUG)
>>> with ufp.logging.StreamLogger(logging.INFO) as out:
...     with ufp.logging.StreamLogger(logging.ERROR) as err:
...             subprocess.call(['ls', '-1'], stdout=out, stderr=err)
...
...
INFO:root:test (d1).file
INFO:root:test (d2).file
INFO:root:test.file
0
```

- **logger** (*logging.Logger, None*) – . .
- **level** (*int*) –

close()

.

fileno()

fileno .

int

write(*data*)

.

data – .

3.12 process

ufp.process.**nohup**(*args*, *stdin=None*, *stdout=None*, *stderr=None*)

hangup .

Availability Unix.

- **args** (*[unicode, ...]*) – .
- **stdin** – . /dev/null .
- **stdout** – stdin .
- **stderr** – stderr .

.

subprocess.Popen

ufp.process.**pgrep**(*pattern*, *only_match_name=False*)
pattern .

Availability Unix.

- **pattern** (*unicode, True*) – . True .
- **only_match_name** (*bool*) – Only match processes whose name exactly match the pattern.

.

[int, ...]

ufp.process.**pkill**(*pattern*)
pattern .

Availability Unix.

pattern (*unicode*) – .

3.13 pyqt4

3.13.1 QNetworkCookie

ufp.pyqt4.QNetworkCookie.**toPyCookie**(*QtCookie*)
qt python .

QtCookie (PyQt4.QtNetwork.QNetworkCookie) – qt .

python .

cookielib.Cookie

3.13.2 QNetworkCookieJar

ufp.pyqt4.QNetworkCookieJar.**toPyCookieJar**(*QtCookieJar*)
qt python .

QtCookieJar (PyQt4.QtNetwork.QNetworkCookieJar) – qt .

python .

cookielib.CookieJar

3.14 descriptor

ufp.descriptor.**classproperty** (*function*)
class property .

setter ufp.descriptor.ClassPropertyMetaClass .

.

```
>>> import ufp.descriptor
>>> class Test(object):
...     __metaclass__ = ufp.descriptor.ClassPropertyMetaClass
...     _vlaue = 10
...
...     @ufp.descriptor.classproperty
...     def value(self):
...             return self._vlaue
...
...     @value.setter
...     def value(self, v):
...             self._vlaue = v
...
>>> Test.value
10
>>> Test.value = 100
>>> Test.value
100
```

function (*function*) –

class property

ClassProperty

class ufp.descriptor.**CachedProperty** (*method*)
.

setter , . , None .

deleter , .

```
>>> class Test(object):
...     @CachedProperty
...     def value(self):
...             print('Calculating self.value')
...             return 10
...
>>> test = Test()
>>> print(test.value)
Calculating self.value
10
>>> print(test.value)
10
>>> test.value = 100
>>> test.value
100
>>> del test.value
>>> test.value
Calculating self.value
10
```

method (*function*) – .

3.15 bs4

ufp.bs4.**copy**(*element*)
beautifulsoup4 .

. .

element (*bs4.Tag, bs4.NavigableString, bs4.Comment*) – .

.

ufp.bs4.**deepcopy**(*element*)
beautifulsoup4 .

.

, beautifulsoup4 4.0.2 append DOM (,) .

element (*bs4.Tag, bs4.NavigableString, bs4.Comment*) – .

.

3.16 random

ufp.random.**bytes**(*size*)
size byte .

size (*int*) – (byte).

.

bytes

ufp.random.**string**(*length*, *chars='abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789'*)
.

- **length** (*int*) –
- **chars** (*str, unicode, list*) –

  [a, ..., z, A, ..., Z, 0, ..., 9] ()

unicode

3.17 shell

ufp.shell.**pgrep**(*pattern*, *extraArgs=[]*)
pattern .

- **pattern** (*unicode*) –

- **extraArgs** (*list(unicode, ...)*) –

pgrep (0 1) .

list .

, [(id, name), ...] .

ufp.shell.**quote**(*string*)

shell .

string (*unicode*) –

unicode

3.18 string

ufp.string.**removeControlChar**(*string*)

.

string (*unicode*) –

unicode

3.19 web

ufp.web.**dequoteJsStr**(*jsStr*)

.

jsStr (*unicode*) –

.

ex) abc'asd' -> abc'asd'

unicode

ufp.web.**loadNetscapeCookie**(*session*, *cookiePath*)

Netscape requests session .

- **session** (*requests.sessions.Session*) – requests
- **cookiePath** (*unicode*) –

ufp.web.**trimFilename**(*filename*, *from_encoding=False*, *consider_extension=False*)

.

:

•url coding

•

•

•

•UHC

: .

- **filename** (*unicode, bytes*) –
- **from_encoding** – .

  ‘auto’ : .

  False : .

  (‘utf8’, ‘uhc’, ...)
- **consider_extension** (*bool*) –

  True: .

  False: .

.

u’Unknown’ .

unicode

3.20 terminal

3.20.1

ufp.terminal.**feed**(**objects*)

, .

objects (*object*) –

ufp.terminal.**pause**()

.

.

3.20.2 debug

ufp.terminal.debug.**print_**(**objects*, ***kwargs*)

.

‘[]’ objs .

- **objects** (*object*) –
- **kwargs** – (__builtin__.print)

3.21 gui

class ufp.gui.**Notepad**
Bases: object

close()
.

open()
.

classmethod show(*content*)
.

content – . *write()* .

.

Notepad

write(*content*)
.

content – . list . list unicode , pprint.pformat . pprint.pformat .

class ufp.gui.**PulseProgress**(*title*, *message*)
Bases: QObject

.

.

```
>>> import ufp.gui
>>> import time
>>> a = ufp.gui.PulseProgress('title', 'message')
>>> a.open(); time.sleep(3); a.close()
```

__init__(*title*, *message*)
.

- **title** (*unicode*) –
- **message** (*unicode*) –

close

open

4.1 v1.14

- ufp.path remove_all_content . [tb69wn6127]
- ufp.path.listdir pattern string 'sre_constants.error: bogus escape (end of line)' . [tb69wn6127]
- ufp.path.remove 'OSError: Cannot call rmtree on a symbolic link' . [tb69wn6127]
- ufp.path.mtime "AttributeError: 'module' object has no attribute 'fromtimestamp'" . [tb69wn6127]
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