
dk Documentation

Release 0.7.8

Bjorn Pettersen

January 15, 2017

1	Project information	3
2	dk.ttcval	5
3	dk.fstr	7
4	dk.collections	9
5	dk.html	13
6	dk.text	15
7	Indices and tables	17
	Python Module Index	19

Installation:

```
pip install dk
```

Contents:

Project information

The project home page is at:

<http://thebjorn.github.io/dk/>

The github directory is at:

<https://github.com/thebjorn/dk>

Report any issues at:

<https://github.com/thebjorn/dk/issues>

Date classes (originally from TikTok).

`dk.ttcal.from_idtag` (*idtag*)

Return a class from *idtag*.

class dk.fstr.fstr

String sub-class with a split() method that splits a given indexes.

Usage:

```
>>> r = fstr('D2008022002')
>>> print r.split(1, 5, 7, 9)
['D', '2008', '02', '20', '02']
>>> _, year, _ = r.split(1,5)
>>> year
'2008'
```

dk.collections

Inversible dictionary.

class `dk.collections.invdict.invdict`

Inversible dict:

```
>>> -invdict({'key': 'val'}) == {'val': 'key'}
```

class `dk.collections.mmap.mmap` (***attrs*)

Multi Map class, ie. a key/value collection where each key can occur multiple times. Implemented as a list of key/value tuples.

add (*key, val*)

append (*kv*)

Ordered Set. Items can only be added once, further additions have no effect. The iterator iterates over the items in insertion order.

class `dk.collections.OrderedSet.orderedset` (*iterable=()*)

Ordered Set. Items can only be added once, further additions have no effect. The iterator iterates over the items in insertion order.

add (*item*)

Mapping classes.

class `dk.collections.pset.defset` (*defval*)

pset with default value.

class `dk.collections.pset.keyval`

keyval(key, val)

key

Alias for field number 0

val

Alias for field number 1

class `dk.collections.pset.pset` (*items=(), **attrs*)

This code is placed in the Public Domain, or released under the wtfpl (<http://sam.zoy.org/wtfpl/COPYING>) wherever PD is problematic.

Property Set class. A property set is an object where values are attached to attributes, but can still be iterated over as key/value pairs. The order of assignment is maintained during iteration. Only one value allowed per key.

```
>>> x = pset()
>>> x.a = 42
>>> x.b = 'foo'
>>> x.a = 314
>>> x
pset(a=314, b='foo')
```

apply (*fn*)
Apply function *fn* to all values in self.

items ()

keys ()

pprint (*indent=0, tab=' ', seen=None*)
Pretty print the pset, indented.

remove (*key*)
Remove key from client vars.

values ()

class dk.collections.pset.**record** (*items=(), **attrs*)
A property set with commit, rollback, and encoding translation.

changed ()
Return list of fields that have changed since last commit.

commit ()
Copy current state to self._history

decode (*encoding*)
Decode using encoding.

encode (*encoding*)
Encode using encoding.

fields
Verbose name of all fields.

rollback ()
Copy snapshot from self._history into self.

strvals (*empty='', none='NULL', encoding='u8'*)
Return a list of all values, formatted for human consumption.

trans (*source='iso-8859-1', dest='utf-8'*)
Translate encoding.

dk.collections.pset.**test_pset** ()
Unit tests...

```
>>> request = pset(REQUEST={}, META={}, path='/', user=None, session={}, method='GET',
...               COOKIES={}, LANGUAGE_CODE='no')
>>> p = page(request)
>>> p.forms = 'fruit'
>>> p.forms.foo = 'bar'
>>> print p.forms.foo
bar
>>> p.forms.fob = 'baz'
>>> print p.forms.fob
baz
>>> x = pset()
```


Attempt at defining themes from Python (probably better to do this elsewhere).

```
dk.html.theme.mkpalette(_source, base, colorlist)
    Convenience function to define a palette.
```

```
class dk.html.theme.palette
    Color palettes from http://colormatch.dk. Colors are named with a lower case x in front of the nearest defined colorvalue.
```

```
class LightSkyBlue2
```

```
    Gray7 = '#121212'
```

```
    Gray93 = '#ededed'
```

```
    LightSkyBlue2 = '#a4d3ee'
```

```
    get = ['#a4d3ee', '#6f8ea1', '#edd7a4', '#a1896f', '#121212', '#ededed']
```

```
    xLemonChiffon4 = '#a1896f'
```

```
    xLightSlateGray = '#6f8ea1'
```

```
    xNavajoWhite2 = '#edd7a4'
```

```
class palette.xForrestGreen
```

```
    Gray48 = '#7a7a7a'
```

```
    Gray52 = '#858585'
```

```
    get = ['#257b24', '#3cc73a', '#5f7a23', '#9ac73a', '#858585', '#7a7a7a']
```

```
    xForrestGreen = '#257b24'
```

```
    xLimeGreen = '#3cc73a'
```

```
    xOliveDrab4 = '#5f7a23'
```

```
    xYellowGreen = '#9ac73a'
```

```
class dk.html.css.css (**attrs)
```

dk.text

`dk.text.u` (*obj*)

Return *obj* as a unicode string. If *obj* is a (non-)unicode string, then first try to decode it as utf-8, then as iso-8859-1.

`dk.text.u8` (*obj*)

Return a utf-8 representation of *obj*.

`dk.text.unicode_repr` (*obj*)

Return *obj* as a unicode string. If *obj* is a (non-)unicode string, then first try to decode it as utf-8, then as iso-8859-1.

`dk.text.utf8` (*obj*)

Return a utf-8 representation of *obj*.

Indices and tables

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

d

dk.collections.invdict, 9
dk.collections.mmap, 9
dk.collections.OrderedSet, 9
dk.collections.pset, 9
dk.collections.sdict, 11
dk.collections.xmlrec, 11
dk.fstr, 7
dk.html, 13
dk.html.css, 13
dk.html.theme, 13
dk.text, 15
dk.ttcalf, 5

A

add() (dk.collections.mmap.mmap method), 9
 add() (dk.collections.OrderedSet.oset method), 9
 append() (dk.collections.mmap.mmap method), 9
 apply() (dk.collections.pset.pset method), 10

B

Boolean() (in module dk.collections.xmlrec), 11

C

changed() (dk.collections.pset.record method), 10
 commit() (dk.collections.pset.record method), 10
 convert (dk.collections.xmlrec.xmlrec attribute), 11
 css (class in dk.html.css), 13

D

Date() (in module dk.collections.xmlrec), 11
 Datetime() (in module dk.collections.xmlrec), 11
 decode() (dk.collections.pset.record method), 10
 defset (class in dk.collections.pset), 9
 dk.collections.invdict (module), 9
 dk.collections.mmap (module), 9
 dk.collections.OrderedSet (module), 9
 dk.collections.pset (module), 9
 dk.collections.sdict (module), 11
 dk.collections.xmlrec (module), 11
 dk.fstr (module), 7
 dk.html (module), 13
 dk.html.css (module), 13
 dk.html.theme (module), 13
 dk.text (module), 15
 dk.ttcac (module), 5

E

encode() (dk.collections.pset.record method), 10

F

fields (dk.collections.pset.record attribute), 10
 from_idtag() (in module dk.ttcac), 5
 fstr (class in dk.fstr), 7

G

get (dk.html.theme.palette.LightSkyBlue2 attribute), 13
 get (dk.html.theme.palette.xForrestGreen attribute), 13
 Gray48 (dk.html.theme.palette.xForrestGreen attribute), 13
 Gray52 (dk.html.theme.palette.xForrestGreen attribute), 13
 Gray7 (dk.html.theme.palette.LightSkyBlue2 attribute), 13
 Gray93 (dk.html.theme.palette.LightSkyBlue2 attribute), 13

I

invdict (class in dk.collections.invdict), 9
 items() (dk.collections.pset.pset method), 10

K

key (dk.collections.pset.keyval attribute), 9
 keys() (dk.collections.pset.pset method), 10
 keys() (dk.collections.sdict.sdict method), 11
 keyval (class in dk.collections.pset), 9

L

LightSkyBlue2 (dk.html.theme.palette.LightSkyBlue2 attribute), 13

M

mkpalette() (in module dk.html.theme), 13
 mmap (class in dk.collections.mmap), 9

N

NOK() (in module dk.collections.xmlrec), 11

O

oset (class in dk.collections.OrderedSet), 9

P

palette (class in dk.html.theme), 13
 palette.LightSkyBlue2 (class in dk.html.theme), 13
 palette.xForrestGreen (class in dk.html.theme), 13

pprint() (dk.collections.pset.pset method), 10
pset (class in dk.collections.pset), 9

R

record (class in dk.collections.pset), 10
remove() (dk.collections.pset.pset method), 10
rollback() (dk.collections.pset.record method), 10

S

sdict (class in dk.collections.sdict), 11
strvals() (dk.collections.pset.record method), 10

T

test_pset() (in module dk.collections.pset), 10
trans() (dk.collections.pset.record method), 10

U

u() (in module dk.text), 15
u8() (in module dk.text), 15
unicode_repr() (in module dk.text), 15
utf8() (in module dk.text), 15

V

val (dk.collections.pset.keyval attribute), 9
values() (dk.collections.pset.pset method), 10
values() (dk.collections.sdict.sdict method), 11

X

xForrestGreen (dk.html.theme.palette.xForrestGreen attribute), 13
xLemonChiffon4 (dk.html.theme.palette.LightSkyBlue2 attribute), 13
xLightSlateGray (dk.html.theme.palette.LightSkyBlue2 attribute), 13
xLimeGreen (dk.html.theme.palette.xForrestGreen attribute), 13
xmlrec (class in dk.collections.xmlrec), 11
xmlrepr() (in module dk.collections.pset), 11
xNavajoWhite2 (dk.html.theme.palette.LightSkyBlue2 attribute), 13
xOliveDrab4 (dk.html.theme.palette.xForrestGreen attribute), 13
xYellowGreen (dk.html.theme.palette.xForrestGreen attribute), 13