
funky Documentation

Release 0.1

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CONTENTS

Contents: Tiny functional programming oriented Python library inspired by underscore.js and Haskell prelude.

`funky.compose(f1, f2, *fs)`

Takes a two or more functions and returns a composition of them:

```
>>> fn = compose(lambda x: x/2, lambda x: x+5)
>>> fn(5)
```

5.0

`funky.curry(fn)`

Returns a function that can be partially applied:

```
>>> fn = curry(lambda x, y: x**y)
>>> fn(2, 8)
```

256 >>> fn(2)(8) 256

`funky.template(f, *args, **kwargs)`

Returns a function with some of its arguments bound:

```
>>> fn = template(lambda a, b, c: (a*b)/c, ___, 2, ___)
>>> fn(5, 2)
```

5.0

class `funky.Chain`

A subclass of list that changes the behaviour of *append*, *extend*, *insert*, *remove*, *reverse* and *sort* so that they allow chaining of method calls:

```
>>> chain([1, 2, 3]).append(4).reverse().extend([5, 6]).sort()
[1, 2, 3, 4, 5, 6]
```

`funky.caller(method, *args, **kwargs)`

Returns a function that takes an object and calls its *method* optionally passing it **args* and ***kwargs*

`funky.invoke(iterable, method, *args, **kwargs)`

Invokes *method* on every member of the *iterable* passing it **args* and ***kwargs*

`funky.iterate(fn, x)`

An iterator that repeatedly applies *fn* to *x*

`funky.pre(*checks)`

A decorator that checks that all of the provided preconditions are met when the function is called:

```
>>> @pre(lambda x: x > 0)
>>> def fn(x):
>>>     return x*x
>>> fn(-1)
```

`funky.post(*checks)`

A decorator that checks that all of the provided postconditions are met when the function returns

`funky.identity(arg)`

A function that takes one argument and returns it.

`funky.flip(fn)`

A function that takes a function with arity of two and returns a function with the arguments flipped

`funky.first(xs)`

Takes an iterable and returns its first item

funky.**second**(*xs*)

Takes an iterable and returns its second item

exception funky.**ConditionError**

Raised when pre- or postcondition fails

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f

funky, ??