Data::OptList(3pm)

## **NAME**

Data::OptList - parse and validate simple name/value option pairs

### **VERSION**

version 0.110

## **SYNOPSIS**

```
use Data::OptList;
  my $options = Data::OptList::mkopt([
    qw(key1 key2 key3 key4),
    key5 => \{ ... \},
   key6 => [ ... ],
   key7 \Rightarrow sub \{ \dots \},
    key8 => \{ ... \},
    key8 => [ ... ],
  ]);
...is the same thing, more or less, as:
 my $options = [
   [ key1 => undef,
                          ],
   ],
                           ],
                           ],
                            ],
    [ key7 => sub { ... }, ],
                           ],
    [ key8 => [ ... ],
                           ],
  ]);
```

### **DESCRIPTION**

Hashes are great for storing named data, but if you want more than one entry for a name, you have to use a list of pairs. Even then, this is really boring to write:

```
$values = [
  foo => undef,
  bar => undef,
  baz => undef,
  xyz => { ... },
];
```

Just look at all those undefs! Don't worry, we can get rid of those:

```
$values = [
  map { $_ => undef } qw(foo bar baz),
  xyz => { ... },
];
```

Aaaauuugh! We've saved a little typing, but now it requires thought to read, and thinking is even worse than typing... and it's got a bug! It looked right, didn't it? Well, the  $xyz => \{ \ldots \}$  gets consumed by the map, and we don't get the data we wanted.

With Data::OptList, you can do this instead:

```
$values = Data::OptList::mkopt([
   qw(foo bar baz),
   xyz => { ... },
]);
```

This works by assuming that any defined scalar is a name and any reference following a name is its value.

## **FUNCTIONS**

```
mkopt
```

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This produces an array of arrays; the inner arrays are name/value pairs. Values will be either "undef" or a reference.

Positional parameters may be used for compatibility with the old mkopt interface:

By default, a *name* is any defined non-reference. The name\_test parameter can be a code ref that tests whether the argument passed it is a name or not. This should be used rarely. Interactions between require\_unique and name\_test are not yet particularly elegant, as require\_unique just tests string equality. **This may change.** 

The must\_be parameter is either a scalar or array of scalars; it defines what kind(s) of refs may be values. If an invalid value is found, an exception is thrown. If no value is passed for this argument, any reference is valid. If must\_be specifies that values must be CODE, HASH, ARRAY, or SCALAR, then Params::Util is used to check whether the given value can provide that interface. Otherwise, it checks that the given value is an object of the kind.

In other words:

```
[ qw(SCALAR HASH Object::Known) ]
Means:
    _SCALARO($value) or _HASH($value) or _INSTANCE($value, 'Object::Known')
mkopt_hash
    my $opt_hash = Data::OptList::mkopt_hash($input, $moniker, $must_be);
```

Given valid "mkopt" input, this routine returns a reference to a hash. It will throw an exception if any name has more than one value.

## **EXPORTS**

Both mkopt and mkopt\_hash may be exported on request.

## **AUTHOR**

Ricardo Signes <ribs@cpan.org>

## **CONTRIBUTORS**

- Olivier Mengué <dolmen@cpan.org>
- Ricardo SIGNES <rjbs@codesimply.com>

# Data::OptList(3pm)

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