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MooseX::AttributeHelpers::MethodProvider::List(3pm) Perl DocBook AttributeHelpers::MethodProvider::List(3pm)
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NAME

MooseX::AttributeHelpers::MethodProvider::List – method generator for MooseX::AttributeHelpers::Collection::List

VERSION

version 0.25

SYNOPSIS

```
package Stuff;
use Moose;
use MooseX::AttributeHelpers;

has 'options' => (
    metaclass => 'Collection::List',
    is        => 'rw',
    isa       => 'ArrayRef[Str]',
    default   => sub { [] },
    auto_deref => 1,
    provides  => {
        elements => 'all_options',
        map      => 'map_options',
        grep     => 'filter_options',
        find     => 'find_option',
        first    => 'first_option',
        last     => 'last_option',
        get      => 'get_option',
        join    => 'join_options',
        count   => 'count_options',
        empty   => 'do_i_have_options',
        sort    => 'sorted_options',
    }
);
no Moose;
1;
```

DESCRIPTION

This is a role which provides the method generators for MooseX::AttributeHelpers::Collection::List.

METHODS**meta****PROVIDED METHODS****count**

Returns the number of elements in the list.

```
$stuff = Stuff->new;
$stuff->options(["foo", "bar", "baz", "boo"]);

my $count = $stuff->count_options;
print "$count\n"; # prints 4
```

empty

If the list is populated, returns true. Otherwise, returns false.

```
$stuff->do_i_have_options ? print "Good boy.\n" : die "No options!\n" ;
```

find

This method accepts a subroutine reference as its argument. That sub will receive each element of the list in turn. If it returns true for an element, that element will be returned by the `find` method.

```
my $found = $stuff->find_option( sub { $_[0] =~ /b/ } );
print "$found\n"; # prints "bar"
```



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grep

This method accepts a subroutine reference as its argument. This method returns every element for which that subroutine reference returns a true value.

```
my @found = $stuff->filter_options( sub { $_[0] =~ / ^b / } );
print "@found\n"; # prints "bar baz boo"
```

map

This method accepts a subroutine reference as its argument. The subroutine will be executed for each element of the list. It is expected to return a modified version of that element. The return value of the method is a list of the modified options.

```
my @mod_options = $stuff->map_options( sub { $_[0] . "-tag" } );
print "@mod_options\n"; # prints "foo-tag bar-tag baz-tag boo-tag"
```

sort

Sorts and returns the elements of the list.

You can provide an optional subroutine reference to sort with (as you can with the core `sort` function). However, instead of using `$a` and `$b`, you will need to use `$_[0]` and `$_[1]` instead.

```
# ascending ASCIIbetical
my @sorted = $stuff->sort_options();

# Descending alphabetical order
my @sorted_options = $stuff->sort_options( sub { lc $_[1] cmp lc $_[0] } );
print "@sorted_options\n"; # prints "foo boo baz bar"
```

elements

Returns all of the elements of the list

```
my @option = $stuff->all_options;
print "@options\n"; # prints "foo bar baz boo"
```

join

Joins every element of the list using the separator given as argument.

```
my $joined = $stuff->join_options( ':' );
print "$joined\n"; # prints "foo:bar:baz:boo"
```

get

Returns an element of the list by its index.

```
my $option = $stuff->get_option(1);
print "$option\n"; # prints "bar"
```

first

Returns the first element of the list.

```
my $first = $stuff->first_option;
print "$first\n"; # prints "foo"
```

last

Returns the last element of the list.

```
my $last = $stuff->last_option;
print "$last\n"; # prints "boo"
```

SUPPORT

Bugs may be submitted through the RT bug tracker <<https://rt.cpan.org/Public/Dist/Display.html?Name=MooseX-AttributeHelpers>> (or bug-MooseX-AttributeHelpers AT rt DOT cpan DOT org <<mailto:bug-MooseX-AttributeHelpers@rt.cpan.org>>).

There is also a mailing list available for users of this distribution, at <<http://lists.perl.org/list/moose.html>>.

There is also an irc channel available for users of this distribution, at #moose on irc.perl.org <<irc://irc.perl.org/#moose>>.



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