MooseX::MultiMethods(3pm) U

User Contributed Perl Documentation

MooseX::MultiMethods(3pm)

NAME

MooseX::MultiMethods - Multi Method Dispatch based on Moose type constraints

VERSION

version 0.10

SYNOPSIS

```
package Paper; use Moose;
package Scissors; use Moose;
package Rock; use Moose;
package Lizard; use Moose;
package Spock; use Moose;
package Game;
use Moose;
use MooseX::MultiMethods;
multi method play (Paper
                             $x, Rock
                                              $y) { 1 }
multi method play (Paper $x, Spock
                                              $y) { 1 }
multi method play (Scissors $x, Paper
                                             $y) { 1 }
multi method play (Scissors $x, Lizard
                                             $y) { 1
multi method play (Rock $x, Scissors $y) { 1
multi method play (Rock $x, Lizard $y) { 1
multi method play (Lizard $x, Paper
                                             $y) { 1
multi method play (Lizard $x, Spock
                                             $y) { 1 }
multi method play (Spock $x, Rock multi method play (Spock $x, Rock
                                             $y) { 1 }
multi method play (Spock $x, Scissors $y) { 1 }
multi method play (Any
                               $x, Any
                                              $y) { 0 }
my $qame = Game->new;
$game->play(Paper->new, Rock->new); # 1, Paper covers Rock
$game->play(Spock->new, Paper->new); # 0, Paper disproves Spock
$game->play(Spock->new, Scissors->new); # 1, Spock smashes Scissors
```

DESCRIPTION

This module provides multi method dispatch based on Moose type constraints. It does so by providing a multi keyword that extends the method keyword provided by MooseX::Method::Signatures.

When invoking a method declared as multi a matching variant is being searched in all the declared multi variants based on the passed parameters and the declared type constraints. If a variant has been found, it will be invoked. If no variant could be found, an exception will be thrown.

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