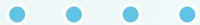



What's new in Perl v5.40?

Mohammad Sajid Anwar


Senior Perl Developer @ Oleeo | 2022 White Camel Awardee



```
1 #!/usr/bin/env perl
2
3 package Employee;
4
5 use v5.38;
6
7 sub new {
8     my ($class, $args) = @_;
9
10    my $self = {};
11    $self->{name} = delete $args->{name};
12    $self->{age} = delete $args->{age};
13
14    return bless $self, $class;
15 }
16
17 sub name {
18     my ($self) = @_;
19
20     return $self->{name};
21 }
22
23 sub age {
24     my ($self) = @_;
25
26     return $self->{age};
27 }
28
29 package main;
30
31 my $emp = Employee->new({ name => "Joe", age => 40 });
32 say $emp->name;    # Joe
33 say $emp->age;    # 40
34
```



```
1 #!/usr/bin/env perl
2
3 package Employee;
4
5 use v5.38;
6 use Moo;
7
8 has 'name' => ('is' => 'rw');
9 has 'age'  => ('is' => 'rw');
10
11 package main;
12
13 my $emp = Employee->new({ name => "Joe", age => 40 });
14 say $emp->name;    # Joe
15 say $emp->age;    # 40
16
```




```
1 #!/usr/bin/env perl
2
3 use v5.38;
4 use experimental 'class';
5
6 class Employee {
7     field $name :param;
8     field $age  :param;
9
10    method name { return $name }
11    method age  { return $age  }
12 }
13
14 package main;
15
16 my $emp = Employee->new(name => "Joe", age => 40);
17 say $emp->name;    # Joe
18 say $emp->age;    # 40
19
```




1


:reader attribute






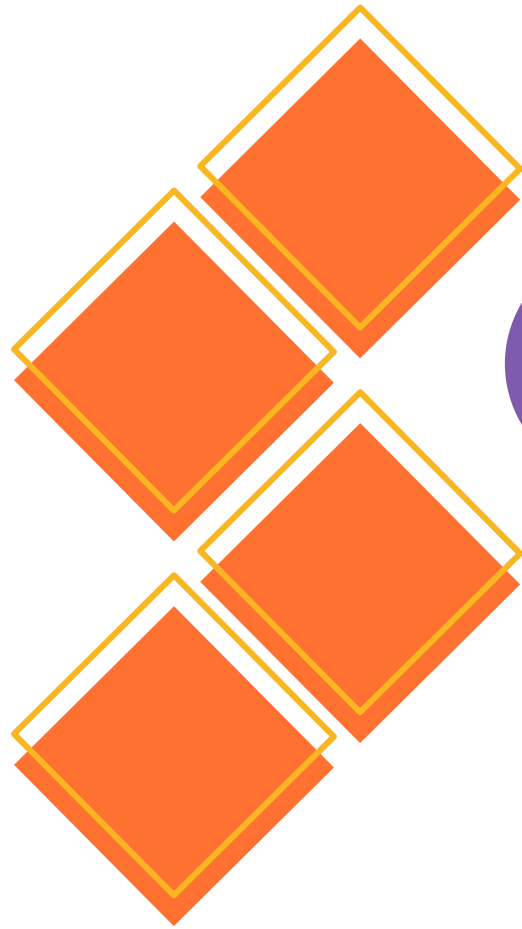
```
1 #!/usr/bin/env perl
2
3 use v5.40;
4 use experimental 'class';
5
6 class Employee {
7     field $name :param :reader;
8     field $age  :param :reader;
9 }
10
11 package main;
12
13 my $emp = Employee->new(name => "Joe", age => 40);
14 say $emp->name;    # Joe
15 say $emp->age;    # 40
16
```





```
1 #!/usr/bin/env perl
2
3 use v5.40;
4 use experimental 'class';
5
6 class Employee {
7     field $name :param :reader;
8     field $age  :param :reader(get_age);
9 }
10
11 package main;
12
13 my $emp = Employee->new(name => "Joe", age => 40);
14 say $emp->name;      # Joe
15 say $emp->get_age;  # 40
16
```





2

__CLASS__ token




```
1 #!/usr/bin/env perl
2
3 use v5.40;
4 use experimental 'class';
5
6 class Example1 {
7     field $x = __CLASS__->default_x;
8     field $y = __CLASS__->default_y;
9
10    sub default_x { 10 }
11    sub default_y { 20 }
12
13    method sum { $x + $y }
14 }
15
16 class Example2 :isa(Example1) {
17     sub default_x { 1 }
18     sub default_y { 2 }
19 }
20
21
22 package main;
23
24 say Example1->new->sum;    # 30
25 say Example2->new->sum;    # 3
26
```

Low Precedence Logical Operators

1 and



or 2



3 xor



Medium Precedence Logical Operators


1 &&

2

||

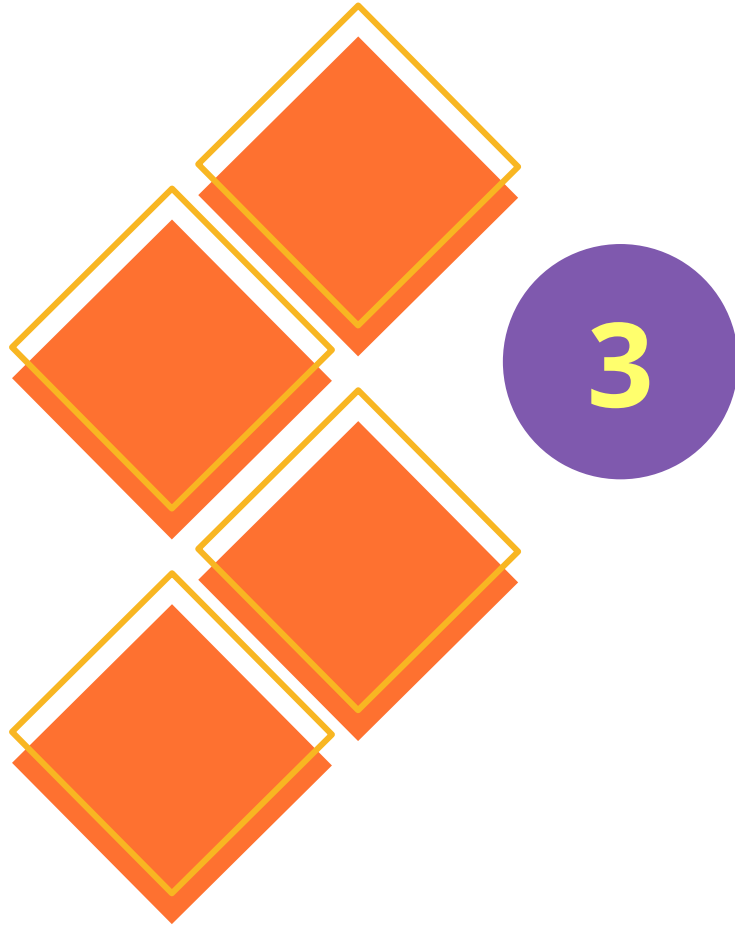
3

Missing \wedge XOR in Perl v5.38 or earlier




```
1 #!/usr/bin/env perl
2
3 use v5.38;
4
5 my $x = 1;
6 my $y = 0;
7
8 ($x xor $y) and say 'Either $x or $y is true but not both.';
9
```






**^^ Medium Precedence
Logical XOR operator**





```
1 #!/usr/bin/env perl
2
3 use v5.40;
4
5 my $x = 1;
6 my $y = 0;
7
8 $x ^^ $y and say 'Either $x or $y is true but not both.';
9
```





4


**try/catch no longer
experimental**






```
1 #!/usr/bin/env perl
2
3 use v5.34;
4 use experimental 'try';
5
6 try {
7     1/0;
8 } catch ($e) {
9     say "try/catch exception: $e";
10 }
11
```





```
1 #!/usr/bin/env perl
2
3 use v5.40;
4
5 try {
6     1/0;
7 } catch ($e) {
8     say "try/catch exception: $e";
9 }
10
```







5


**for_list no longer
experimental**






```
1 #!/usr/bin/env perl
2
3 use v5.36;
4 use experimental 'for_list';
5
6 for my ($p, $q) (1,2,3,4) {
7     say $p, $q;
8 }
9
10 __END__
11
12 Output
13 12
14 34
15
```





```
1 #!/usr/bin/env perl
2
3 use v5.40;
4
5 for my ($p, $q) (1,2,3,4) {
6     say $p, $q;
7 }
8
9 __END__
10
11 Output
12 12
13 34
14
```



deriv | 25 years

CVLibrary

Oleeo

{ } Geekuni

Geizhals
Preisvergleich

 **Datensegler**

 **SpareRoom**

méterian

 **The Perl & Raku Foundation** 



Thank You

