

1)What is the impact on performance in php7.4?

- PHP 7.4 Brings **Spread Operator** in Array Expression
- A significant advantage of **Spread operator** is that it supports any traversable objects, while the `array_merge` function only supports arrays.
- In PHP, anonymous functions are considered to be quite verbose and difficult to implement and maintain. This RFC proposes the introduction of the shorter and clearer syntax of the **arrow functions** (or short closures), that should allow us to clean up significantly our PHP code.

Example:

```
1 <?php
2 $a = [1, 2, 3, 4, 5];
3 $b = array_map(function ($n){
4     return ($n * $n * $n);
5 }, $a);
6 print_r($b);
7
8 echo '<br>With Arrow Function : <br>';
9 $a = [1, 2, 3, 4, 5];
10 $b = array_map(fn($n)=>($n * $n), $a);
11 print_r($b);
12 ?>
```

- **Typed Properties 2.0**

In the new 7.4, PHP is able to support the following type list:

`bool, int, float, string, array, object,`
`iterable, self, parent`

2)write 4 different examples of spread operator?



```
1 <?php
2 $animals = ['dog', 'cat'];
3 $animalkingdom = ['lion', 'elephant', ...$animals, 'giraffe'];
4 print_r($animalkingdom);
5 ?>
```

```
Array
(
    [0] => lion
    [1] => elephant
    [2] => dog
    [3] => cat
    [4] => giraffe
)
```



```
1 <?php
2 $num1 = [1, 2, 3];
3 $num2 = [...$num1]; // [1, 2, 3]
4 $num3 = [0, ...$num1]; // [0, 1, 2, 3]
5 $num4 = array(...$num1, ...$num2, 111); // [1, 2, 3, 1, 2, 3, 111]
6 $num5 = [...$num1, ...$num1]; // [1, 2, 3, 1, 2, 3]
7 print_r($num5);
8 ?>
```

```
Array
(
    [0] => 1
    [1] => 2
    [2] => 3
    [3] => 1
    [4] => 2
    [5] => 3
)
```

- Not only that, but you can also use it in a function. Check out this example:

```
1 <?php
2 function getNum() {
3     return ['a', 'b'];
4 }
5 $num6 = [...getNum(), 'c']; // ['a', 'b', 'c']
6
7
8 function arrGen() {
9     for($i = 11; $i < 15; $i++) {
10         yield $i;
11     }
12 }
13 $num8 = [...arrGen()]; // [11, 12, 13, 14]
14 print_r($num8);
15 print_r($num6);
16 ?>
17
```

Result:

```
Array
(
    [0] => 11
    [1] => 12
    [2] => 13
    [3] => 14
)
Array
(
    [0] => a
    [1] => b
    [2] => c
)
```

•

```

1 <?php
2
3 function getAnimals(){
4     return ['dog', 'cat', 'elephant'];
5 }
6 $num1 = [...getAnimals(), 'lion', 'tiger', 'giraffe'];
7 print_r($num1);
8 ?>
9
10

```

```

Array
(
    [0] => dog
    [1] => cat
    [2] => elephant
    [3] => lion
    [4] => tiger
    [5] => giraffe
)

```

3)write 5 deprecated functions in php7.4?

- Nested ternary operators without explicit parentheses

```
<?php
1 ? 2 : 3 ? 4 : 5;    // deprecated
(1 ? 2 : 3) ? 4 : 5;  // ok
1 ? 2 : (3 ? 4 : 5);  // ok
?>
```

- Array and string offset access using curly braces

The array and string offset access syntax using curly braces is deprecated. Use `$var[$idx]` instead of `$var{$idx}`.

- (real) cast and `is_real()` function

The *(real)* cast is deprecated, use *(float)* instead.

The `is_real()` function is also deprecated, use `is_float()` instead.

- `restore_include_path()` function

The `restore_include_path()` function is deprecated. It can be replaced by `ini_restore('include_path')`.

- Using `array_key_exists()` on objects

Using `array_key_exists()` on objects is deprecated. Instead either `isset()` or `property_exists()` should be used.

4)write three different way to implement dependency injection?

Constructor Injection:

In this approach, we can inject an object through the class constructor.

```
depend.php > ...
1  <?php
2      class Programmer {
3          private $skills;
4          public function __construct($skills){
5              $this->skills = $skills;
6          }
7          public function totalSkills(){
8              return count($this->skills);
9          }
10     }
11     $createskills = array("PHP", "JQUERY", "AJAX");
12     $p = new Programmer($createskills);
13     echo $p->totalSkills();
14  ?>
```

Setter Injection:

where you inject the object to your class through a setter function.

```
depend2.php > ...
1  <?php
2      class Profile {
3          private $language;
4          public function setLanguage($language){
5              $this->language = $language;
6          }
7      }
8      $profile = new Profile();
9      $language = array("Hindi", "English", "French");
10     $profile->setLanguage($language);
11
12  ?>
```

Interface Injection

In this type of injection, an interface enforces the dependencies for any classes that implement it, for example:

```
interface someInterface {  
    function getUsers(Database $database);  
}
```

Now any class that needs to implement `someInterface` must provide `Database` dependency in their `getUsers()` methods.

Dependency Injection Container

We use container in real live projects because it contains many dependency injection and we use it for collecting it systematically.