

# PHP ARRAY FUNCTIONS

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# Array Length

- The 'Count()' function returns the number of elements in the array.

```
<?php  
$items = ["a", "b", "c"];  
echo count($items);  
?>
```

Outputs: 3

# Adding Elements to Arrays

- Adding elements in a PHP array can be done in 2 ways :
  - ✓ **Using `array_push()`** : inserts the element at the end of the array.
  - ✓ **Using `array_unshift()`** : inserts the element at the beginning of the array.

# array\_push()

- The array\_push() function inserts one or more elements to the end of an array.
- array\_push(array, value1, value2, ...)

```
<?php  
$a=array("red","green");  
array_push($a,"blue","yellow");  
print_r($a);  
?>
```

OUTPUT:

```
Array ( [0] => red [1] => green [2] => blue [3] => green )
```

# array\_unshift()

- The array\_unshift() adds one or more elements to the beginning of an array.

```
<?php
$queue = ["orange", "banana"];
array_unshift($queue, "apple", "raspberry");
print_r($queue);
?>
```

Outputs: Array ( [0] => apple [1] => raspberry [2] => orange [3] => banana )

# Removing Elements from Arrays

- Removing elements in a PHP array can be done in 2 ways :
  - ✓ **Using `array_pop()`** : removes and returns the last element of the array.
  - ✓ **Using `array_shift()`**: removes and returns the first element of the array.

# array\_pop()

- The array\_pop() function deletes the last element of an array.

```
array_pop(array)
```

```
<?php  
$a=array("red","green","blue");  
array_pop($a);  
print_r($a);  
?>
```

OUTPUT:

```
Array ( [0] => red [1] => green )
```

# Using array\_shift()

```
<?php
$queue = ["orange", "banana", "apple"];
$fruit = array_shift($queue);
echo $fruit;
print_r($queue);
?>
```

Outputs: orange

Outputs: Array ( [0] => banana [1] => apple )



# array\_search()

- The array\_search() function search an array for a value and returns the key.
- array\_search(value, array, strict)

```
<?php  
$a=array("a"=>"red","b"=>"green","c"=>"blue");  
echo array_search("red",$a);  
?>
```

OUTPUT:

a

# array\_search()

```
<?php  
$a=array("a"=>"1","b"=>1,"c"=>"1");  
echo array_search(1,$a,true);  
?>
```

OUTPUT:

b

//true is used for strict comparison

# array\_count\_values()

- The array\_count\_values() function is used to count the frequency of all the values in an array.
- array\_count\_values(array)

```
<?php
```

```
$a=array("Block 33","Block 34","Block 34","Block 36","Block 36");
```

```
print_r(array_count_values($a));
```

```
?>
```

OUTPUT:

```
Array ( [Block 33] => 1 [Block 34] => 2 [Block 36] => 2 )
```

# array\_merge()

- The array\_merge() function merges one or more arrays into one array.
- array\_merge(array1, array2, array3, ...)

```
<?php
$a1=array("a"=>"red","b"=>"green");
$a2=array("c"=>"blue","b"=>"yellow");
$a3=array("c"=>"orange","b"=>"magenta");
print_r(array_merge($a1,$a2,$a3));
?>
```

OUTPUT:

```
Array ( [a] => red [b] => magenta [c] => orange )
```

# array\_merge()

```
<?php  
$a1=array("red","green", "blue");  
$a2=array("blue","yellow");  
print_r(array_merge($a1,$a2));  
?>
```

OUTPUT:

```
Array ( [0] => red [1] => green [2] => blue [3] => blue [4] =>  
yellow )
```

# array\_combine()

- The array\_combine() function creates an array by using the elements from one "keys" array and one "values" array.
- array\_combine(keys, values)

```
<?php  
$name=array("Manoj","Rahul","Aneesh");  
$marks=array("75","89","44");  
$c=array_combine($name,$marks);  
print_r($c);  
?>
```

OUTPUT:

```
Array ( [Manoj] => 75 [Rahul] => 89 [Aneesh] => 44 )
```

# array\_chunk()

- The array\_chunk() function splits an array into chunks of new arrays.
- array\_chunk(array, size, preserve\_key)

```
<?php
```

```
$courses=array("PHP","Laravel","Node  
js","HTML","CSS","ASP.NET");
```

```
print_r(array_chunk($courses,2));
```

```
?>
```

OUTPUT:

```
Array ( [0] => Array ( [0] => PHP [1] => Laravel ) [1] => Array ( [0]  
=> Node js [1] => HTML ) [2] => Array ( [0] => CSS [1] =>  
ASP.NET ) )
```

# array\_chunk()

```
<?php
$courses=array("a"=>"PHP","b"=>"Laravel","c"=>"Node
js","d"=>"HTML","e"=>"CSS","f"=>"ASP.NET");
print_r(array_chunk($courses,2));
?>
```

## OUTPUT:

```
Array ( [0] => Array ( [0] => PHP [1] => Laravel ) [1] =>
Array ( [0] => Node js [1] => HTML ) [2] => Array ( [0] =>
CSS [1] => ASP.NET ) )
```



# array\_chunk()

```
<?php
$courses=array("a"=>"PHP","b"=>"Laravel","c"=>"Node
js","d"=>"HTML","e"=>"CSS","f"=>"ASP.NET");
print_r(array_chunk($courses,2, true));
?>
```

## OUTPUT:

```
Array ( [0] => Array ( [a] => PHP [b] => Laravel ) [1] =>
Array ( [c] => Node js [d] => HTML ) [2] => Array ( [e] =>
CSS [f] => ASP.NET ) )
```

# array\_diff()

- The `array_diff()` function compares the values of two (or more) arrays, and returns the differences.
- This function compares the values of two (or more) arrays, and return an array that contains the entries from `array1` that are not present in `array2` or `array3`, etc.
- `array_diff(array1, array2, array3, ...)`

# array\_diff()

```
<?php
$a1=array("a"=>"red","b"=>"green","c"=>"blue","d"=>"yellow");
$a2=array("e"=>"red","f"=>"green","g"=>"blue");
$a3=array("h"=>"magenta","i"=>"seagreen");
$result=array_diff($a1,$a2);
print_r($result);
?>
```

OUTPUT:

```
Array ( [d] => yellow )
```

# array\_flip()

- The array\_flip() function flips/exchanges all keys with their associated values in an array.
- array\_flip(array)

```
<?php
$a1=array("a"=>"red","b"=>"green","c"=>"blue","d"=>"yellow");
$result=array_flip($a1);
print_r($result);
?>
```

OUTPUT:

```
Array ( [red] => a [green] => b [blue] => c [yellow] => d )
```

# array\_flip()

```
<?php  
$a1=array("red","green","blue","yellow");  
$result=array_flip($a1);  
print_r($result);  
?>
```

OUTPUT:

```
Array ( [red] => 0 [green] => 1 [blue] => 2 [yellow] => 3 )
```

# array\_intersect()

- The array\_intersect() function compares the values of two (or more) arrays, and returns the matches.
- array\_intersect(array1, array2, array3, ...)

```
<?php
$a1=array("a"=>"red","b"=>"green","c"=>"blue","d"=>"yellow");
$a2=array("e"=>"red","f"=>"green","g"=>"blue");
$a3=array("red","blue");
$result=array_intersect($a1,$a2,$a3);
print_r($result);
?>
```

OUTPUT:

```
Array ( [a] => red [c] => blue )
```

# array\_reverse()

- The array\_reverse() function returns an array in the reverse order.
- array\_reverse(array, preserve)

```
<?php
```

```
$a=array("a"=>"Volvo","b"=>"BMW","c"=>"Toyota");
```

```
print_r(array_reverse($a));
```

```
?>
```

OUTPUT:

```
Array ( [c] => Toyota [b] => BMW [a] => Volvo )
```

# array\_reverse()

- Pass true value to preserve the key

```
<?php  
$a=array("Volvo","BMW","Toyota");  
print_r(array_reverse($a, true));  
?>
```

OUTPUT:

Array ( [2] => Toyota [1] => BMW [0] => Volvo )



# array\_slice()

- The array\_slice() function returns selected parts of an array.
- array\_slice(array, start, length, preserve)

```
<?php
$a=array("a"=>"red","b"=>"green","c"=>"blue","d"=>"yellow","e"=>"brown");
print_r(array_slice($a,1,2));
```

```
echo "<br>";
```

```
$a=array("red","green","blue","yellow","brown");
print_r(array_slice($a,1,2,true));
?>
```

OUTPUT:

```
Array ( [b] => green [c] => blue )
```

```
Array ( [1] => green [2] => blue )
```

# array\_column()

- The array\_column() function returns the values from a single column in the input array.
- array\_column(array, column\_key, index\_key)

```
<?php
```

```
$result = array(  
    array('name'=>'Manoj','cgpa'=>6.7,'status'=>'pass'),  
    array('name'=>"Shalini",'cgpa'=>9.8,'status'=>'pass'),  
    array('name'=>'Mani','cgpa'=>3.2,'status'=>'fail')  
);
```

```
$name = array_column($result, 'name');  
print_r($name);  
?>
```

OUTPUT:

```
Array ( [0] => Manoj [1] => Shalini [2] => Mani )
```

# array\_column()

```
<?php
```

```
$result = array(  
    array('name'=>'Manoj','cgpa'=>6.7,'status'=>'pass'),  
    array('name'=>"Shalini",'cgpa'=>9.8,'status'=>'pass'),  
    array('name'=>'Mani','cgpa'=>3.2,'status'=>'fail')  
);  
$names = array_column($result, 'status', 'name');  
print_r($names);
```

```
?>
```

```
Array ( [Manoj] => pass [Shalini] => pass [Mani] => fail )
```

# array\_sum()

- returns the sum of all the values in an array.

```
<?php  
$array = [1, 2, 3, 4];  
$sum = array_sum($array);  
echo $sum;  
?>
```

Outputs: 10

# array\_product()

- returns the product of all the values in an array.

```
<?php  
$array = [1, 2, 3, 4];  
$product = array_product($array);  
echo $product;  
?>
```

Outputs: 24

# in\_array()

- checks if a value exists in the array.

```
<?php  
$array = ["a", "b", "c"];  
$exists = in_array("b", $array);  
echo $exists ? "Exists" : "Does not exist";  
?>
```

Outputs: Exists

# array\_key\_exists()

- checks if a specific key exists in the array.

```
<?php
$array = ["a" => 1, "b" => 2, "c" => 3];
$keyExists = array_key_exists("b", $array);
echo $keyExists ? "Key exists" : "Key does not exist";
?>
```

Outputs: Key exists