

**TUGAS MATERI ARRAY
FUNCTION PHP YANG BERKAITAN DENGAN ARRAY**



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SURAKARTA

2020

10 built-in function PHP yang berkaitan dengan array & contoh script nya

1. array_count_values

(PHP 4, PHP 5, PHP 7)

array_count_values — Counts all the values of an array

Description

array_count_values (array \$array) : array

array_count_values() returns an array using the values of `array` as keys and their frequency in `array` as values.

Parameters

array

The array of values to count

Return Values

Returns an associative array of values from `array` as keys and their count as value.

Errors/Exceptions

Throws **E_WARNING** for every element which is not [string](#) or [integer](#).

Examples

Example #1 array_count_values() example

```
<?php
$array = array(1, "hello", 1, "world", "hello");
print_r(array_count_values($array));
?>
```

The above example will output:

```
Array
(
    [1] => 2
    [hello] => 2
    [world] => 1
)
```

2. array_fill

(PHP 4 >= 4.2.0, PHP 5, PHP 7)

`array_fill` — Fill an array with values

Description

`array_fill` (int *\$start_index*, int *\$num*, [mixed](#) *\$value*) : array

Fills an array with `num` entries of the value of the `value` parameter, keys starting at the `start_index` parameter.

Parameters

start_index

The first index of the returned array.

If `start_index` is negative, the first index of the returned array will be `start_index` and the following indices will start from zero (see [example](#)).

num

Number of elements to insert. Must be greater than or equal to zero.

value

Value to use for filling

Return Values

Returns the filled array

Errors/Exceptions

Throws a **E_WARNING** if `num` is less than zero.

Examples

Example #1 `array_fill()` example

```
<?php
$a = array_fill(5, 6, 'banana');
$b = array_fill(-2, 4, 'pear');
print_r($a);
print_r($b);
?>
```

The above example will output:

```
Array
(
```

```
[5] => banana
[6] => banana
[7] => banana
[8] => banana
[9] => banana
[10] => banana
)
Array
(
    [-2] => pear
    [0] => pear
    [1] => pear
    [2] => pear
)
```

3. array_filter

(PHP 4 >= 4.0.6, PHP 5, PHP 7)

`array_filter` — Filters elements of an array using a callback function

Description

`array_filter` (array *\$array*, [callable](#) *\$callback*, int *\$flag* = 0) : array

Iterates over each value in the `array` passing them to the `callback` function. If the `callback` function returns **TRUE**, the current value from `array` is returned into the result [array](#).

Array keys are preserved, and may result in gaps if the `array` was indexed. The result [array](#) can be reindexed using the [array_values\(\)](#) function.

Parameters

array

The array to iterate over

callback

The callback function to use

If no `callback` is supplied, all empty entries of `array` will be removed. See [empty\(\)](#) for how PHP defines empty in this case.

flag

Flag determining what arguments are sent to `callback`:

- **ARRAY_FILTER_USE_KEY** - pass key as the only argument to `callback` instead of the value
- **ARRAY_FILTER_USE_BOTH** - pass both value and key as arguments to `callback` instead of the value

Default is 0 which will pass value as the only argument to `callback` instead.

Return Values

Returns the filtered array.

Examples

Example #1 array_filter() example

```
<?php
function odd($var)
{
    // returns whether the input integer is odd
    return $var & 1;
}

function even($var)
{
    // returns whether the input integer is even
    return !($var & 1);
}

$array1 = ['a' => 1, 'b' => 2, 'c' => 3, 'd' => 4, 'e' => 5];
$array2 = [6, 7, 8, 9, 10, 11, 12];

echo "Odd :\n";
print_r(array_filter($array1, "odd"));
echo "Even:\n";
print_r(array_filter($array2, "even"));
?>
```

The above example will output:

```
Odd :
Array
(
    [a] => 1
    [c] => 3
    [e] => 5
)
Even:
Array
(
    [0] => 6
    [2] => 8
    [4] => 10
    [6] => 12
)
```

Example #2 array_filter() without callback

```
<?php
```

```
$entry = [  
    0 => 'foo',  
    1 => false,  
    2 => -1,  
    3 => null,  
    4 => '',  
    5 => '0',  
    6 => 0,  
];  
  
print_r(array_filter($entry));  
?>
```

The above example will output:

```
Array  
(  
    [0] => foo  
    [2] => -1  
)
```

Example #3 array_filter() with flag

```
<?php
```

```
$arr = ['a' => 1, 'b' => 2, 'c' => 3, 'd' => 4];  
  
var_dump(array_filter($arr, function($k) {  
    return $k == 'b';  
}, ARRAY_FILTER_USE_KEY));  
  
var_dump(array_filter($arr, function($v, $k) {  
    return $k == 'b' || $v == 4;  
}, ARRAY_FILTER_USE_BOTH));  
?>
```

The above example will output:

```
array(1) {  
    ["b"]=>  
    int(2)  
}  
array(2) {  
    ["b"]=>  
    int(2)  
    ["d"]=>  
    int(4)  
}
```

}

4. array_replace

(PHP 5 >= 5.3.0, PHP 7)

`array_replace` — Replaces elements from passed arrays into the first array

Description

`array_replace` (array `$array1` [, array `$...`]) : array

`array_replace()` replaces the values of `array1` with values having the same keys in each of the following arrays. If a key from the first array exists in the second array, its value will be replaced by the value from the second array. If the key exists in the second array, and not the first, it will be created in the first array. If a key only exists in the first array, it will be left as is. If several arrays are passed for replacement, they will be processed in order, the later arrays overwriting the previous values.

`array_replace()` is not recursive : it will replace values in the first array by whatever type is in the second array.

Parameters

`array1`

The array in which elements are replaced.

...

Arrays from which elements will be extracted. Values from later arrays overwrite the previous values.

Return Values

Returns an [array](#), or **NULL** if an error occurs.

Examples

Example #1 `array_replace()` example

```
<?php
$base = array("orange", "banana", "apple", "raspberry");
$replacements = array(0 => "pineapple", 4 => "cherry");
$replacements2 = array(0 => "grape");

$basket = array_replace($base, $replacements, $replacements2);
print_r($basket);
?>
```

The above example will output:

```
Array
(
    [0] => grape
    [1] => banana
    [2] => apple
    [3] => raspberry
    [4] => cherry
)
```

5. array_reverse

(PHP 4, PHP 5, PHP 7)

array_reverse — Return an array with elements in reverse order

Description

array_reverse (array \$array [, bool \$preserve_keys = **FALSE**]) : array

Takes an input `array` and returns a new array with the order of the elements reversed.

Parameters

`array`

The input array.

`preserve_keys`

If set to **TRUE** numeric keys are preserved. Non-numeric keys are not affected by this setting and will always be preserved.

Return Values

Returns the reversed array.

Examples

Example #1 array_reverse() example

```
<?php
$input  = array("php", 4.0, array("green", "red"));
$reversed = array_reverse($input);
$preserved = array_reverse($input, true);

print_r($input);
print_r($reversed);
print_r($preserved);
?>
```

The above example will output:

```
Array
(
```



```
[0] => php
[1] => 4
[2] => Array
    (
        [0] => green
        [1] => red
    )
)
Array
(
    [0] => Array
        (
            [0] => green
            [1] => red
        )

    [1] => 4
    [2] => php
)
Array
(
    [2] => Array
        (
            [0] => green
            [1] => red
        )

    [1] => 4
    [0] => php
)
```

6. array_search

(PHP 4 >= 4.0.5, PHP 5, PHP 7)

`array_search` — Searches the array for a given value and returns the first corresponding key if successful

Description

array_search ([mixed](#) \$needle , array \$haystack [, bool \$strict = **FALSE**]) : [mixed](#)

Searches for `needle` in `haystack`.

Parameters

`needle`

The searched value.

Note:

If `needle` is a string, the comparison is done in a case-sensitive manner.

`haystack`

The array.

`strict`

If the third parameter `strict` is set to **TRUE** then the `array_search()` function will search for *identical* elements in the `haystack`. This means it will also perform a [strict type comparison](#) of the `needle` in the `haystack`, and objects must be the same instance.

Return Values

Returns the key for `needle` if it is found in the array, **FALSE** otherwise.

If `needle` is found in `haystack` more than once, the first matching key is returned. To return the keys for all matching values, use [array_keys\(\)](#) with the optional `search_value` parameter instead.

Warning

This function may return Boolean **FALSE**, but may also return a non-Boolean value which evaluates to **FALSE**. Please read the section on [Booleans](#) for more information. Use [the === operator](#) for testing the return value of this function.

Examples

Example #1 array_search() example

```
<?php
$array = array(0 => 'blue', 1 => 'red', 2 => 'green', 3 => 'red');

$key = array_search('green', $array); // $key = 2;
$key = array_search('red', $array);   // $key = 1;
?>
```

7. count

(PHP 4, PHP 5, PHP 7)

`count` — Count all elements in an array, or something in an object

Description

count ([mixed](#) \$array_or_countable [, int \$mode = COUNT_NORMAL]) : int

Counts all elements in an array, or something in an object.

For objects, if you have [SPL](#) installed, you can hook into `count()` by implementing interface [Countable](#). The interface has exactly one method, [Countable::count\(\)](#), which returns the return value for the `count()` function.

Please see the [Array](#) section of the manual for a detailed explanation of how arrays are implemented and used in PHP.

Parameters

`array_or_countable`

An array or [Countable](#) object.

`mode`

If the optional `mode` parameter is set to **COUNT_RECURSIVE** (or 1), **count()** will recursively count the array. This is particularly useful for counting all the elements of a multidimensional array.

Caution

count() can detect recursion to avoid an infinite loop, but will emit an **E_WARNING** every time it does (in case the array contains itself more than once) and return a count higher than may be expected.

Return Values

Returns the number of elements in `array_or_countable`. When the parameter is neither an array nor an object with implemented [Countable](#) interface, 1 will be returned. There is one exception, if `array_or_countable` is **NULL**, 0 will be returned.

Examples

Example #1 count() example

```
<?php
$a[0] = 1;
$a[1] = 3;
$a[2] = 5;
var_dump(count($a));

$b[0]  = 7;
$b[5]  = 9;
$b[10] = 11;
var_dump(count($b));

var_dump(count(null));

var_dump(count(false));
?>
```

The above example will output:

```
int(3)
int(3)
```

```
Warning: count(): Parameter must be an array or an object that implements
Countable in ... on line 12 // as of PHP 7.2
int(0)
```

```
Warning: count(): Parameter must be an array or an object that implements
Countable in ... on line 14 // as of PHP 7.2
int(1)
```

Example #2 Recursive count() example

```
<?php
$food = array('fruits' => array('orange', 'banana', 'apple'),
              'veggie' => array('carrot', 'collard', 'pea'));

// recursive count
echo count($food, COUNT_RECURSIVE); // output 8

// normal count
echo count($food); // output 2

?>
```

8. end

(PHP 4, PHP 5, PHP 7)

end — Set the internal pointer of an array to its last element

Description

end (array &\$array) : [mixed](#)

end() advances array's internal pointer to the last element, and returns its value.

Parameters

array

The array. This array is passed by reference because it is modified by the function. This means you must pass it a real variable and not a function returning an array because only actual variables may be passed by reference.

Return Values

Returns the value of the last element or **FALSE** for empty array.

Examples

Example #1 end() example

```
<?php

$fruits = array('apple', 'banana', 'cranberry');
echo end($fruits); // cranberry

?>
```

9. range

(PHP 4, PHP 5, PHP 7)

range — Create an array containing a range of elements

Description

range (mixed \$start , mixed \$end [, number \$step = 1]) : array

Create an array containing a range of elements.

Parameters

start

First value of the sequence.

end

The sequence is ended upon reaching the end value.

step

If a step value is given, it will be used as the increment between elements in the sequence.

step should be given as a positive number. If not specified, step will default to 1.

Return Values

Returns an array of elements from start to end, inclusive.

Examples

Example #1 range() examples

```
<?php
// array(0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12)
foreach (range(0, 12) as $number) {
    echo $number;
}

// The step parameter
```

```
// array(0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100)
foreach (range(0, 100, 10) as $number) {
    echo $number;
}

// Usage of character sequences
// array('a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i');
foreach (range('a', 'i') as $letter) {
    echo $letter;
}
// array('c', 'b', 'a');
foreach (range('c', 'a') as $letter) {
    echo $letter;
}
?>
```

10. sizeof

(PHP 4, PHP 5, PHP 7)

sizeof — Alias of [count\(\)](#)

Description

This function is an alias of: [count\(\)](#).

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