

array_filter in php

The `array_filter()` function in PHP is used to filter elements of an array based on a callback function. It iterates over each value in the input array, passes it to the callback function, and includes the element in the result array if the callback function returns `true`.

Syntax:

Code

```
array array_filter(array $array, callable $callback = null, int $flag = 0)
```

Parameters:

`$array` (required): The input array to be filtered.

`$callback` (optional): A callable function that defines the condition for filtering. If omitted, all entries of the array that evaluate to `FALSE` will be removed.

`$flag` (optional): An integer value that specifies additional behavior for the callback function.

`ARRAY_FILTER_USE_KEY`: Passes the key as the only argument to the callback.

`ARRAY_FILTER_USE_BOTH`: Passes both the value and the key as arguments to the callback.

How it works:

The `array_filter()` function iterates through each element of the `$array`. For each element, it calls the `$callback` function, passing the element's value (and optionally its key, depending on the `$flag`) as arguments. If the `$callback` function returns `true`, the element is included in the new array returned by `array_filter()`. If `false` is returned, the element is excluded. Array keys are preserved in the filtered array.

Example:

Code

```
<?php
$numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10];

// Filter out odd numbers (keep even numbers)
$seven_numbers = array_filter($numbers, function($number) {
    return $number % 2 === 0;
});

print_r($seven_numbers);

// Output:
// Array
// (
//     [1] => 2
//     [3] => 4
//     [5] => 6
//     [7] => 8
//     [9] => 10
// )

$data = [
    'name' => 'John Doe',
    'email' => '',
    'age' => 30,
    'city' => null
];

// Filter out empty or null values
$filtered_data = array_filter($data);

print_r($filtered_data);

// Output:
// Array
// (
//     [name] => John Doe
//     [age] => 30
// )
?>
```

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