Array Functions Examples

array_chunk()

In order to split an array into chunks of the specified size, we use this function.

```
<?php
//Example of array_chunk()
$arr=array(1,4,5,7,12,-9,33,78,1,90,56,88, 11, 12, 13, 99, 110, 543);
echo 'Total elements in array: '.count($arr);
echo '<br>Array Elements...';
foreach($arr as $a)
    echo $a.' ';
echo '<br>Splitting the above array in chunks of size 4...<br>';
$chunks=array_chunk($arr, 4);
foreach($chunks as $c)
{
    print_r($c);
    echo '<br>';
}
?>
```

Output

```
Total elements in array: 18

Array Elements...1 4 5 7 12 -9 33 78 1 90 56 88 11 12 13 99 110 543

Splitting the above array in chunks of size 4...

Array ([0] \Rightarrow 1[1] \Rightarrow 4[2] \Rightarrow 5[3] \Rightarrow 7)

Array ([0] \Rightarrow 12[1] \Rightarrow -9[2] \Rightarrow 33[3] \Rightarrow 78)

Array ([0] \Rightarrow 1[1] \Rightarrow 90[2] \Rightarrow 56[3] \Rightarrow 88)

Array ([0] \Rightarrow 11[1] \Rightarrow 12[2] \Rightarrow 13[3] \Rightarrow 99)

Array ([0] \Rightarrow 110[1] \Rightarrow 543)
```

array_column()

For the purpose of retrieving the elements of any specified column, we can use the array_chunk() function. For instance, in the previous example, we create an array of chunks of size 4. So, to display the elements from a specified column name of all the arrays we can use this function. In other words, the name of the column needs to be specified as the second parameter. Therefore, the first of the following example displays all elements of column '0', and so on.

```
<?php
echo '<br>Printing elements of column [0]...<br>';
$zerocolumn=array_column($chunks, '0');
print_r($zerocolumn);
echo '<br>Printing elements of column [1]...<br>';
$onecolumn=array_column($chunks, '1');
print_r($onecolumn);
echo '<br>Printing elements of column [2]...<br>';
```

```
$twocolumn=array_column($chunks, '2');
print_r($twocolumn);
echo '<br>Printing elements of column [3]...<br>';
$threecolumn=array_column($chunks, '3');
print_r($threecolumn);
?>
```

Output

```
Printing elements of column [0]...

Array ( [0] => 1 [1] => 12 [2] => 1 [3] => 11 [4] => 110 )

Printing elements of column [1]...

Array ( [0] => 4 [1] => -9 [2] => 90 [3] => 12 [4] => 543 )

Printing elements of column [2]...

Array ( [0] => 5 [1] => 33 [2] => 56 [3] => 13 )

Printing elements of column [3]...

Array ( [0] => 7 [1] => 78 [2] => 88 [3] => 99 )
```

Array_diff()

```
<?php
//Program to find array differnce
echo '<h2>Array Difference in Values</h2>';
\arr1=array(7,1,9,23,4,5,12, 8);
$arr2=array(7,1,4,2,5,23,99,90,34,67,15);
$arr3=array_diff($arr1, $arr2);
$arr4=array_diff($arr2, $arr1);
echo 'First Array....<br>';
foreach($arr1 as $a)
       echo $a.' ';
echo '<br>Second Array....<br>';
foreach($arr2 as $a)
       echo $a.' ';
echo '<br/>br>Array Difference (First Array - Second Array)....<br/>';
foreach($arr3 as $a)
       echo $a.' ';
echo '<br/>br>Array Difference (Second Array - First Array)....<br/>';
foreach($arr4 as $a)
       echo $a.' ';
echo '<br>';
?>
```

Output

Array Difference in Values

```
First Array....
7 1 9 23 4 5 12 8
Second Array....
7 1 4 2 5 23 99 90 34 67 15
Array Difference (First Array - Second Array)....
9 12 8
Array Difference (Second Array - First Array)....
2 99 90 34 67 15
```

Array_diff_assoc()

```
<?php
//To find th difference between key value pairs
echo '<h2>Array Difference in Key-Value pairs</h2>';
$arr1=array('a'=>17,'b'=>1.8,'c'=>9,'d'=>523,'e'=>4,'f'=>56,'g'=>12,'h'=>80
$arr2=array('p'=>7,'q'=>1,'r'=>4,'a'=>2,'b'=>1.8,'c'=>23,'d'=>99,'e'=>90,'f
'=>34, 'k'=>67, 'g'=>12);
$arr3=array diff assoc($arr1, $arr2);
$arr4=array diff assoc($arr2, $arr1);
echo 'First Array....<br>';
print r($arr1);
echo '<br>Second Array....<br>';
print r($arr2);
echo '<br/>br>Array Difference (First Array - Second Array)....<br/>';
print r($arr3);
echo '<br/>br>Array Difference (Second Array - First Array)....<br/>';
print r($arr4);
?>
```

Output

Array Difference in Key-Value pairs

```
First Array....

Array ( [a] => 17 [b] => 1.8 [c] => 9 [d] => 523 [e] => 4 [f] => 56 [g] => 12 [h] => 80 )

Second Array....

Array ( [p] => 7 [q] => 1 [r] => 4 [a] => 2 [b] => 1.8 [c] => 23 [d] => 99 [e] => 90 [f] => 34 [k] => 67 [g] => 12 )

Array Difference (First Array - Second Array)....

Array ( [a] => 17 [c] => 9 [d] => 523 [e] => 4 [f] => 56 [h] => 80 )

Array Difference (Second Array - First Array)....

Array ( [p] => 7 [q] => 1 [r] => 4 [a] => 2 [c] => 23 [d] => 99 [e] => 90 [f] => 34 [k] => 67 )
```

Array Difference in Key-Value pairs

```
First Array.... Array ( [a] => 17 [b] => 1.8 [c] => 9 [d] => 523 [e] => 4 [f] => 56 [g] => 12 [h] => 80 ) Second Array.... Array ( [p] => 7 [q] => 1 [r] => 4 [a] => 2 [b] => 1.8 [c] => 23 [d] => 99 [e] => 90 [f] => 34 [k] => 67 [g] => 12 ) Array Difference (First Array - Second Array).... Array ( [a] => 17 [c] => 9 [d] => 523 [e] => 4 [f] => 56 [h] => 80 ) Array Difference (Second Array - First Array).... Array ( [p] => 7 [q] => 1 [r] => 4 [a] => 2 [c] => 23 [d] => 99 [e] => 90 [f] => 34 [k] => 67 )
```

Array_diff_key()

```
<?php
//To find th difference between keys of two arrays
echo '<h2>Array Difference in Keys</h2>';
$arr1=array('a'=>17,'b'=>1.8,'c'=>9,'d'=>523,'e'=>4,'f'=>56,'q'=>12,'h'=>80
$arr2=array('p'=>7,'q'=>1,'r'=>4,'a'=>2,'b'=>1.8,'c'=>23,'d'=>99,'e'=>90,'f
'=>34, 'k'=>67, 'q'=>12);
$arr3=array diff key($arr1, $arr2);
$arr4=array diff key($arr2, $arr1);
echo 'First Array....<br>';
print r($arr1);
echo '<br>Second Array....<br>';
print r($arr2);
echo '<br/>br>Array Difference (First Array - Second Array)....<br/>';
print r($arr3);
echo '<br/>br>Array Difference (Second Array - First Array)....<br/>';
print r($arr4);
?>
```

Array Difference in Keys

```
First Array... Array ( [a] => 17 [b] => 1.8 [c] => 9 [d] => 523 [e] => 4 [f] => 56 [g] => 12 [h] => 80 ) Second Array... Array ( [p] => 7 [q] => 1 [r] => 4 [a] => 2 [b] => 1.8 [c] => 23 [d] => 99 [e] => 90 [f] => 34 [k] => 67 [g] => 12 ) Array Difference (First Array - Second Array).... Array ( [h] => 80 ) Array Difference (Second Array - First Array).... Array ( [p] => 7 [q] => 1 [r] => 4 [k] => 67 )
```

Array_combine()

```
<?php
$key_array=array('M', 'J', 'A', 'L', 'V', 'S');
$value_array=array(67.9, 80.5, 45, 67.99, 98.33, 64);
echo 'Key Array....<br>';
print_r($key_array);
echo '<br>Value Array...<br>';
print_r($value_array);
echo '<br>Combining Key and Value Arrays...<br>';
$combined=array_combine($key_array, $value_array);
```

```
print_r($combined);
?>
Key Array....
Array ([0] \Rightarrow M[1] \Rightarrow J[2] \Rightarrow A[3] \Rightarrow L[4] \Rightarrow V[5] \Rightarrow S)
Value Array...
Array ([0] = 67.9 [1] = 80.5 [2] = 45 [3] = 67.99 [4] = 98.33 [5] = 64)
Combining Key and Value Arrays...
Array ([M] = 67.9 [J] = 80.5 [A] = 45 [L] = 67.99 [V] = 98.33 [S] = 64)
Array_diff(), array_diff_assoc(), array_diff_key()
<?php
//Program to find array differnce
echo '<h2>Array Difference in Values</h2>';
$arr1=array(7,1,9,23,4,5,12, 8);
$arr2=array(7,1,4,2,5,23,99,90,34,67,15);
$arr3=array_diff($arr1, $arr2);
$arr4=array_diff($arr2, $arr1);
echo 'First Array....<br>';
foreach($arr1 as $a)
       echo $a.' ';
echo '<br>Second Array....<br>';
foreach($arr2 as $a)
       echo $a.' ';
echo '<br/>br>Array Difference (First Array - Second Array)....<br/>';
foreach($arr3 as $a)
       echo $a.' ';
echo '<br/>br>Array Difference (Second Array - First Array)....<br/>';
foreach($arr4 as $a)
       echo $a.' ':
echo '<br>';
?>
```

```
<?php
//To find th difference between key value pairs
echo '<h2>Array Difference in Key-Value pairs</h2>';
$arr1=array('a'=>17,'b'=>1.8,'c'=>9,'d'=>523,'e'=>4,'f'=>56,'g'=>12,'h'=>80);
$arr2=array('p'=>7,'q'=>1,'r'=>4,'a'=>2,'b'=>1.8,'c'=>23,'d'=>99,'e'=>90,'f'=>34,'k'=>6
7,'g'=>12);
$arr3=array_diff_assoc($arr1, $arr2);
$arr4=array_diff_assoc($arr2, $arr1);
echo 'First Array....<br>';
print_r($arr1);
echo '<br>Second Array....<br>';
print r($arr2);
echo '<br/>br>Array Difference (First Array - Second Array)....<br/>';
print_r($arr3);
echo '<br/>br>Array Difference (Second Array - First Array)....<br/>';
print r($arr4);
?>
<?php
//To find th difference between keys of two arrays
echo '<h2>Array Difference in Keys</h2>';
$arr1=array('a'=>17,'b'=>1.8,'c'=>9,'d'=>523,'e'=>4,'f'=>56,'g'=>12,'h'=>80);
$arr2=array('p'=>7,'q'=>1,'r'=>4,'a'=>2,'b'=>1.8,'c'=>23,'d'=>99,'e'=>90,'f'=>34,'k'=>6
7,'g'=>12);
$arr3=array_diff_key($arr1, $arr2);
$arr4=array_diff_key($arr2, $arr1);
echo 'First Array....<br>';
print_r($arr1);
echo '<br>Second Array....<br>';
print_r($arr2);
```

```
echo '<br/>br>Array Difference (First Array - Second Array)....<br/>';
print_r($arr3);
echo '<br/>br>Array Difference (Second Array - First Array)....<br/>';
print_r(\$arr4);
?>
 Array Difference in Values
 First Array....
 7 1 9 23 4 5 12 8
 Second Array....
 7 1 4 2 5 23 99 90 34 67 15
 Array Difference (First Array - Second Array)....
 Array Difference (Second Array - First Array)....
 2 99 90 34 67 15
 Array Difference in Key-Value pairs
 First Array....
 Array ([a] => 17 [b] => 1.8 [c] => 9 [d] => 523 [e] => 4 [f] => 56 [g] => 12 [h] => 80)
 Second Array....
 Array\ (\ [p] \Longrightarrow 7\ [q] \Longrightarrow 1\ [r] \Longrightarrow 4\ [a] \Longrightarrow 2\ [b] \Longrightarrow 1.8\ [c] \Longrightarrow 23\ [d] \Longrightarrow 99\ [e] \Longrightarrow 90\ [f] \Longrightarrow 34\ [k] \Longrightarrow 67\ [g] \Longrightarrow 12\ )
 Array Difference (First Array - Second Array)....
 Array ([a] => 17 [c] => 9 [d] => 523 [e] => 4 [f] => 56 [h] => 80)
 Array Difference (Second Array - First Array)....
 Array ( [p] => 7 [q] => 1 [r] => 4 [a] => 2 [c] => 23 [d] => 99 [e] => 90 [f] => 34 [k] => 67 )
 Array Difference in Keys
 First Array....
 Array ( [a] => 17 [b] => 1.8 [c] => 9 [d] => 523 [e] => 4 [f] => 56 [g] => 12 [h] => 80 )
 Second Array....
 Array ([p] \Rightarrow 7[q] \Rightarrow 1[r] \Rightarrow 4[a] \Rightarrow 2[b] \Rightarrow 1.8[c] \Rightarrow 23[d] \Rightarrow 99[e] \Rightarrow 90[f] \Rightarrow 34[k] \Rightarrow 67[g] \Rightarrow 12)
 Array Difference (First Array - Second Array)....
 Array ([h] => 80)
 Array Difference (Second Array - First Array)....
 Array ([p] \Rightarrow 7[q] \Rightarrow 1[r] \Rightarrow 4[k] \Rightarrow 67)
Array_fill()
<?php
//Filling an array with values
echo 'Filling 6 elements starting from index 3 with value \'abc\'<br>';
$arr=array_fill(3, 6, 'abc');
print_r($arr);
```

echo '
starting with -ve index....
;

```
$arr1=array_fill(-12, 4, 0);
print_r($arr1);
?>
Filling 6 elements starting from index 3 with value 'abc'
Array ([3] =  abc [4] =  abc [5] =  abc [6] =  abc [7] =  abc [8] =  abc )
Starting with -ve index....
Array ([-12] \Rightarrow 0[0] \Rightarrow 0[1] \Rightarrow 0[2] \Rightarrow 0)
Array_filter()
<?php
function OddNumbers($n)
{
       if($n%2==1)
              return true;
       return false;
}
function EvenNumbers($n)
{
       if(n\%2==0)
              return true;
       return false;
}
?>
<?php
//Example of array_filter() function
$myarray=array(12, 1, 9, 67, 45, 34, 22, 100, 97, 58, 9, 123, 66, 19, 86);
echo 'Original Array...<br>';
print_r($myarray);
echo '<br/>br>Array with only odd values using array_filter() method....<br/>';
$myarray1=array_filter($myarray, ''OddNumbers'');
print_r($myarray1);
```

```
echo '<br/>br>Array with only even values using array_filter() method....<br/>';
           $myarray2=array_filter($myarray, "EvenNumbers");
           print_r($myarray2);
           ?>
Original Array...
Array ([0] \Rightarrow 12[1] \Rightarrow 1[2] \Rightarrow 9[3] \Rightarrow 67[4] \Rightarrow 45[5] \Rightarrow 34[6] \Rightarrow 22[7] \Rightarrow 100[8] \Rightarrow 97[9] \Rightarrow 58[10] \Rightarrow 9[11] \Rightarrow 123[12] \Rightarrow 66[13] \Rightarrow 19[14] \Rightarrow 86)
Array with only odd values using array filter() method....
Array ([1] \Rightarrow 1[2] \Rightarrow 9[3] \Rightarrow 67[4] \Rightarrow 45[8] \Rightarrow 97[10] \Rightarrow 9[11] \Rightarrow 123[13] \Rightarrow 19)
Array with only even values using array filter() method....
Array ([0] => 12 [5] => 34 [6] => 22 [7] => 100 [9] => 58 [12] => 66 [14] => 86)
           Array_flip()
           <?php
           //Flipping keys and values
           $arr1=array('a'=>1, 'b'=>10, 'c'=>100, 'd'=>1000, 'e'=>10000);
           echo '<br/>br>Original Array....<br/>';
           print_r($arr1);
           $arr2=array_flip($arr1);
           echo '<br/>br>Flipped Array....<br/>';
           print_r($arr2);
           ?>
            Original Array....
            Array ([a] \Rightarrow 1[b] \Rightarrow 10[c] \Rightarrow 100[d] \Rightarrow 1000[e] \Rightarrow 10000)
            Flipped Array....
            Array ([1] \Rightarrow a [10] \Rightarrow b [100] \Rightarrow c [1000] \Rightarrow d [10000] \Rightarrow e)
           Array_intersect(), array_intersect_assoc(), array_intersect_key()
           <?php
            //Array Intersection
            echo '<h2>Comparing Values only</h2>';
            $arr1=array(12, -99, 78, 3.9, 45, 's', 55, 14);
            $arr2=array(1,2,5,2,55,'s', 3,8,9,45,23);
```

```
$arr3=array_intersect($arr1, $arr2);
echo 'First Array...<br>';
print_r($arr1);
echo '<br>Second Array...<br>';
print_r($arr2);
echo '<br/>br>Array Intersection (Array 1 &cap; Array 2)...<br/>';
print_r($arr3);
$arr4=array_intersect($arr2, $arr1);
echo '<br/>br>Array Intersection (Array 2 &cap; Array 1)...<br/>';
print_r($arr4);
echo '<h2>Comparing Keys and Values</h2>';
$arr3=array_intersect_assoc($arr1, $arr2);
echo 'First Array...<br>';
print_r($arr1);
echo '<br>Second Array...<br>';
print_r($arr2);
echo '<br/>br>Array Intersection (Array 1 &cap; Array 2)...<br/>';
print_r($arr3);
$arr4=array_intersect_assoc($arr2, $arr1);
echo '<br/>br>Array Intersection (Array 2 &cap; Array 1)...<br/>';
print_r($arr4);
echo '<h2>Comparing Keys Only</h2>';
$arr3=array_intersect_key($arr1, $arr2);
echo 'First Array...<br>';
print_r($arr1);
echo '<br>Second Array...<br>';
```

```
print_r($arr2);
echo '<br/>br>Array Intersection (Array 1 &cap; Array 2)...<br/>';
print_r($arr3);
 $arr4=array_intersect_key($arr2, $arr1);
echo '<br/>br>Array Intersection (Array 2 &cap; Array 1)...<br/>';
print_r($arr4);
?>
 Comparing Values only
 First Array...
 Array ([0] => 12 [1] => -99 [2] => 78 [3] => 3.9 [4] => 45 [5] => s [6] => 55 [7] => 14)
 Second Array...
 Array ([0] \Rightarrow 1[1] \Rightarrow 2[2] \Rightarrow 5[3] \Rightarrow 2[4] \Rightarrow 55[5] \Rightarrow s[6] \Rightarrow 3[7] \Rightarrow 8[8] \Rightarrow 9[9] \Rightarrow 45[10] \Rightarrow 23)
 Array Intersection (Array 1 ∩ Array 2)...
 Array ([4] \Rightarrow 45[5] \Rightarrow s[6] \Rightarrow 55)
 Array Intersection (Array 2 ∩ Array 1)...
 Array ([4] => 55[5] => s[9] => 45)
 Comparing Keys and Values
 First Array...
 Array ([0] => 12 [1] => -99 [2] => 78 [3] => 3.9 [4] => 45 [5] => s [6] => 55 [7] => 14)
 Second Array...
 Array ([0] = 1[1] = 2[2] = 5[3] = 2[4] = 55[5] = s[6] = 3[7] = 8[8] = 9[9] = 45[10] = 23)
 Array Intersection (Array 1 ∩ Array 2)...
 Array ([5] \Rightarrow s)
 Array Intersection (Array 2 ∩ Array 1)...
 Array ([5] \Rightarrow s)
 Comparing Keys Only
 First Array...
 Array ( [0] => 12 [1] => -99 [2] => 78 [3] => 3.9 [4] => 45 [5] => s [6] => 55 [7] => 14 )
 Second Array...
 Array ([0] => 1[1] => 2[2] => 5[3] => 2[4] => 55[5] => s[6] => 3[7] => 8[8] => 9[9] => 45[10] => 23)
 Array Intersection (Array 1 \cap Array 2)...
 Array ([0] => 12 [1] => -99 [2] => 78 [3] => 3.9 [4] => 45 [5] => s [6] => 55 [7] => 14)
 Array Intersection (Array 2 ∩ Array 1)...
 Array ([0] \Rightarrow 1[1] \Rightarrow 2[2] \Rightarrow 5[3] \Rightarrow 2[4] \Rightarrow 55[5] \Rightarrow s[6] \Rightarrow 3[7] \Rightarrow 8)
Array_map()
<?php
function find_squareroot($n)
 return sqrt($n);
}
?>
```

Array_merge()

First Array...

Array ($[0] \Rightarrow 78[1] \Rightarrow 12[2] \Rightarrow 44[3] \Rightarrow 53[4] \Rightarrow 91[5] \Rightarrow 8[6] \Rightarrow 441[7] \Rightarrow 7$)

Second Array...

Array ($[0] \Rightarrow 7[1] \Rightarrow 1[2] \Rightarrow 87[3] \Rightarrow 3[4] \Rightarrow 56[5] \Rightarrow 14[6] \Rightarrow 531[7] \Rightarrow 89$)

Merged Array...

Array ($[0] \Rightarrow 78[1] \Rightarrow 12[2] \Rightarrow 44[3] \Rightarrow 53[4] \Rightarrow 91[5] \Rightarrow 8[6] \Rightarrow 441[7] \Rightarrow 7[8] \Rightarrow 7[9] \Rightarrow 1[10] \Rightarrow 87[11] \Rightarrow 3[12] \Rightarrow 56[13] \Rightarrow 14[14] \Rightarrow 531[15] \Rightarrow 89$