

18 Array Mathematics Function

`array_diff()`

Computes the difference of arrays. It compares the values of the first array with the values of following arrays and returns the differences.

```
$array1 = ["a", "b", "c", "d"];
$array2 = ["b", "c"];
$result = array_diff($array1, $array2);
print_r($result);
```

`array_diff_assoc()`

Computes the difference of arrays with additional index check.

```
$array1 = ["a" => "green", "b" => "brown", "c" => "blue", "red"];
$array2 = ["a" => "green"];
$result = array_diff_assoc($array1, $array2);
print_r($result);
```

`array_diff_key()`

Computes the difference of arrays using keys for comparison.

```
$array1 = ["blue" => 1, "red" => 2, "green" => 3];
$array2 = ["green" => 4, "yellow" => 7];
$result = array_diff_key($array1, $array2);
print_r($result);
```

`array_intersect()`

Computes the intersection of arrays.

```
$array1 = ["a", "b", "c", "d"];
$array2 = ["b", "c", "e"];
$result = array_intersect($array1, $array2);
print_r($result);
```

`array_intersect_assoc()`

Computes the intersection of arrays with additional index check.

```
$array1 = ["a" => "green", "b" => "brown", "c" => "blue"];
$array2 = ["a" => "green", "b" => "yellow", "c" => "blue"];
$result = array_intersect_assoc($array1, $array2);
print_r($result);
```

`array_intersect_key()`

Computes the intersection of arrays using keys for comparison.

```
$array1 = ["blue" => 1, "red" => 2, "green" => 3];
$array2 = ["green" => 4, "yellow" => 7];
$result = array_intersect_key($array1, $array2);
print_r($result);
```