Working With PHP Arrays in the Right Way

The Basics

array_values()
array_keys()
array_combine()
array_flip()

```
$keys = ['sky', 'grass', 'orange'];
02
    $values = ['blue', 'green', 'orange'];
03
04
    $array = array_combine($keys, $values);
05
    print_r($array);
06
07
    // Array
08
    11 (
```

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//)

// [sky] => blue

// [grass] => green

// [orange] => orange

```
print_r(array_keys($array)); // ['sky', 'grass', 'orange']
print_r(array_values($array)); // ['blue', 'green', 'orange']
print_r(array_flip($array));

// Array
// Array
// [blue] => sky
// [green] => grass
```

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// [orange] => orange

Make Your Code Shorter

list()
extract()
compact()

```
01  // define array
02  $array = ['a', 'b', 'c'];
03
04  // without list()
05  $a = $array[0];
06  $b = $array[1];
07  $c = $array[2];
08
```

list(\$a, \$b, \$c) = \$array;

// with list()

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```
$arrays = [[1, 2], [3, 4], [5, 6]];

foreach ($arrays as list($a, $b)) {
    $c = $a + $b;
    echo($c . ', '); // 3, 7, 11,
}
```

echo("\$clothes \$size \$color"); // t-shirt medium blue

```
02
    $size = 'medium';
03
    $color = 'blue';
04
05
    $array = compact('clothes', 'size', 'color');
06
    print_r($array);
07
08
    // Array
09
    // (
10
   // [clothes] => t-shirt
   // [size] => medium
12 // [color] => blue
```

\$clothes = 't-shirt';

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//)

Filtering functions

array_filter()
array_unique()
array_column()

```
$\text{numbers} = [20, -3, 50, -99, 55];

$\text{positive} = \text{array_filter($numbers, function($number)} {
            return $number > 0;
}
```

print_r(\$positive); // [0 => 20, 2 => 50, 4 => 55]

});

print_r(\$not_empty); // [0 => -1, 2 => 1]

 $\frac{1}{3}$ = [1, 1, 1, 1, 2, 2, 2, 3, 4, 5, 5];

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// [0] => 1

// [8] => 4

09 // [4] => 2

10 // [7] => 3

12 // [9] => 5

//)

```
$array = [
    ['id' => 1, 'title' => 'tree'],
    ['id' => 2, 'title' => 'sun'],
    ['id' => 3, 'title' => 'cloud'],
];

$ids = array_column($array, 'id');
```

print_r(\$ids); // [1, 2, 3]

```
$\square\text{scinemas} = Cinema::find()->all();
$\square\text{scinema_ids} = array_column(\square\text{scinemas}, 'id'); // php7 forever!
```

Walking Throught the Arrays

array_map()
array_walk()

print_r(\$squares); // [1, 4, 9, 16, 25]

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}, \$numbers);

```
01
    $model = ['id' => 7, 'name'=>'James'];
02
03
    $callback = function($key, $value) {
04
        return "$key is $value";
05
    };
06
07
    $res = array_map($callback, array_keys($model), $model);
08
    print_r($res);
09
10
    // Array
    // (
   // [0] => id is 7
12
13 // [1] \Rightarrow name is James
14
    //)
```

```
01
    fruits = \Gamma
02
         'banana' => 'yellow',
03
         'apple' => 'areen'.
         'orange' => 'orange',
04
05
     ];
06
07
     array_walk(\fruits, function(\frac{1}{2}\text{svalue}, \frac{1}{2}\text{key}) {
08
         $value = "$key is $value";
09
    });
10
11
     print_r($fruits);
12
13
    // Array
14
    // (
15
    // [banana] => banana is yellow
16
   // [apple] => apple is green
   // [orange] => orange is orange
17
18
     //)
```

Joining array_merge() array_diff() Arrays array_intersect()

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// (

//)

// [a] \Rightarrow A

// [b] => B

// [c] => c

// [D] => D

```
$array1 = [1, 2, 3, 4];
$array2 = [3, 4, 5, 6];

$diff = array_diff($array1, $array2);
print_r($diff); // [0 => 1, 1 => 2]

$intersect = array_intersect($array1, $array2);
```

 $print_r(\frac{1}{2} \Rightarrow 3, 3 \Rightarrow 4]$

6

Do the Math With Array Values

```
array_sum()
array_product()
array_reduce()
array_count_values()
```

```
$numbers = [1, 2, 3, 4, 5];
echo(array_sum($numbers)); // 15
echo(array_product($numbers)); // 120
```

 $\{(0.0083 = 1/2/3/4/5)\}$

echo(array_reduce(\$numbers, function(\$carry, \$item) {

return \$carry ? \$carry / \$item : 1;

```
$\frac{\text{sthings}}{\text{stree}', 'apple', 'banana', 'tree', 'tree', 'tree'];}
$\frac{\text{values}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{count_values}}{\text{stanues}}{\text{stanues}}{\text{count_values}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{count_values}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\text{stanues}}{\
```

// [banana] => 1

10 // [tree] => 3

09

11

//)

Generating array_fill() range() Arrays array_slice()

```
$\frac{\$bind = array_fill(0, 5, '?');}
print_r(\$bind); // ['?', '?', '?', '?', '?']
```

```
$\text{letters} = range('a', 'z');
print_r(\left\text{letters}); // ['a', 'b', ..., 'z']
```

print_r(\$hours); // [0, 1, 2, ..., 23]

 $\frac{\text{shours}}{\text{range}(0, 23)};$

```
$\text{numbers} = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10];
$\text{top} = \text{array_slice(\$numbers, 0, 3);}
$\text{print_r(\$top); // [1, 2, 3]}$
```

Sorting Arrays

sort() and friends

	а	k	r	u
а	asort		arsort	uasort
k		ksort	krsort	
r	arsort	krsort	rsort	
u	uasort			usort

Combining Array Like a Boss Functions

```
$models = [$model1, $model2, $model3];

$id_to_title = array_combine(
    array_column($models, 'id'),
    array_column($models, 'title')
```

);

```
$\square{\text{values}} = \array_count_values(\$letters); // get key to count array
arsort(\$values); // sort descending preserving key
$\text{top} = \array_slice(\$values, 0, 3); // get top 3

print_r(\$top);
```

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// Array

// [d] => 5

// [a] => 4

// [b] => 2

// (

//)

\$letters = ['a', 'a', 'a', 'b', 'b', 'c', 'd', 'd', 'd', 'd',

```
01
    sorder = \Gamma
02
         ['product_id' => 1, 'price' => 99, 'count' => 1],
         ['product_id' => 2, 'price' => 50, 'count' => 2],
03
         ['product_id' => 2, 'price' => 17, 'count' => 3],
04
05
    7;
06
07
    $sum = array_sum(array_map(function($product_row) {
         return $product_row['price'] * $product_row['count'];
08
    }, $order)):
09
10
11
    print_r($sum); // 250
```

Thanks!

full tutorial: https://goo.gl/VQ7QWb

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