# 14 Array Transformation Functions

`array_map()` - Applies a callback function to the elements of one or more arrays.

```
function square($n) {
    return $n * $n;
}
$numbers = array(1, 2, 3, 4);
$squaredNumbers = array_map('square', $numbers);
print_r($squaredNumbers);
```

`array_filter()` - Filters elements of an array using a callback function.

```
function is_even($n) {
    return $n % 2 == 0;
}
$numbers = array(1, 2, 3, 4);
$evenNumbers = array_filter($numbers, 'is_even');
print_r($evenNumbers);
```

`array_merge()` - Merges one or more arrays.

```
$arr1 = array("apple", "banana");
$arr2 = array("cherry", "date");
$merged = array_merge($arr1, $arr2);
print_r($merged);
```

`array_replace()` - Replaces values from one array to another.

```
$base = array("apple", "banana", "cherry");
$replacements = array(0 => "apricot", 2 => "date");
$replaced = array_replace($base, $replacements);
print_r($replaced);
```

`array_flip()` - Exchanges all keys with their associated values in an array.

```
$input = array("a" => 1, "b" => 2, "c" => 3);
$flipped = array_flip($input);
print_r($flipped);
```

`array_change_key_case()` - Changes the case of all keys in an array.

```
$input = array("First" => 1, "SecONd" => 4);
$result = array_change_key_case($input, CASE_UPPER);
print_r($result);
```

`array_column()` - Returns the values from a single column of the input array.

```
$records = array(
    array('id' => 2135, 'first_name' => 'John', 'last_name' => 'Doe'),
    array('id' => 3245, 'first_name' => 'Sally', 'last_name' => 'Smith'),
    array('id' => 5342, 'first_name' => 'Jane', 'last_name' => 'Jones')
);
```

```php
$firstNames = array_column($records, 'first_name');
print_r($firstNames)
```

#php