

16 Array Iteration Functions

`array_walk()` - Applies a user-defined function to each item in an array.

```
$fruits = array("apple", "banana", "cherry");

function test_alter(&$item, $key, $prefix) {
    $item = "$prefix: $item";
}

array_walk($fruits, 'test_alter', 'fruit');
print_r($fruits);
```

`array_walk_recursive()` - Applies a user-defined function recursively to each item in an array.

```
$sweet = array('a' => 'apple', 'b' => array('p' => 'pear', 'c' => 'cherry'));

function test_print($item, $key) {
    echo "$key holds $item\n";
}

array_walk_recursive($sweet, 'test_print');
```

`array_reduce()` - Iteratively reduces the array to a single value using a callback function.

```
$numbers = array(1, 2, 3, 4, 5);

function sum($carry, $item) {
    $carry += $item;
    return $carry;
}

$result = array_reduce($numbers, 'sum');
echo $result; // Outputs: 15
```

#php