

# Multi Dimensional Array Compare

This function compares two multi dimensional arrays and returns an array containing the new, removed and changed values as separate array.

```
<?php
function compareArrays($array1, $array2) {
    $result = [
        'new' => [],
        'removed' => [],
        'changed' => []
    ];

    // Check for new and changed values
    foreach ($array2 as $key => $value) {
        if (array_key_exists($key, $array1)) {
            if (is_array($value) && is_array($array1[$key])) {
                $recursiveResult = compareArrays($array1[$key], $value);
                if (!empty($recursiveResult['new'])) {
                    $result['new'][$key] = $recursiveResult['new'];
                }
                if (!empty($recursiveResult['removed'])) {
                    $result['removed'][$key] = $recursiveResult['removed'];
                }
                if (!empty($recursiveResult['changed'])) {
                    $result['changed'][$key] = $recursiveResult['changed'];
                }
            } elseif ($value !== $array1[$key]) {
                $result['changed'][$key] = [
                    'old' => $array1[$key],
                    'new' => $value
                ];
            }
        } else {
            $result['new'][$key] = $value;
        }
    }

    // Check for removed values
    foreach ($array1 as $key => $value) {
        if (!array_key_exists($key, $array2)) {
            $result['removed'][$key] = $value;
        }
    }

    return $result;
}
```

Example usage:

```
$array1 = [  
    'name' => 'John',  
    'age' => 30,  
    'address' => [  
        'city' => 'New York',  
        'state' => 'NY'  
    ],  
    'hobbies' => ['reading', 'traveling']  
];  
  
$array2 = [  
    'name' => 'John',  
    'age' => 31,  
    'address' => [  
        'city' => 'San Francisco',  
        'state' => 'CA'  
    ],  
    'hobbies' => ['reading', 'sports'],  
    'profession' => 'Developer'  
];  
  
$differences = compareArrays($array1, $array2);  
print_r($differences);  
?>
```

From:  
<http://wuff.dyndns.org/> - **Wulf's Various Things**

Permanent link:  
<http://wuff.dyndns.org/doku.php?id=php:multi-dimensional-array-compare>

Last update: **2024/05/17 00:13**

