

17. PHP Multidimensional Arrays

An array can also contain another array as a value, which in turn can hold other arrays as well. In such a way we can create two- or three-dimensional arrays:

Example

```
<?php
// A two-dimensional array:
$cars = array
(
    array("Volvo",100,96),
    array("BMW",60,59),
    array("Toyota",110,100)
);
?>
```

17.1. PHP - Multidimensional Arrays

A multidimensional array is an array containing one or more arrays.

In a multidimensional array, each element in the main array can also be an array. And each element in the sub-array can be an array, and so on.

Example

In this example we create a multidimensional array, with automatically assigned ID keys:

```
$families = array
(
    "Griffin"=>array
    (
        "Peter",
        "Lois",
        "Megan"
    ),
    "Quagmire"=>array
    (
        "Glenn"
    ),
    "Brown"=>array
```

```
(  
  "Cleveland",  
  "Loretta",  
  "Junior"  
)  
);
```

The array above would look like this if written to the output:

```
Array  
(  
  [Griffin] => Array  
    (  
      [0] => Peter  
      [1] => Lois  
      [2] => Megan  
    )  
  [Quagmire] => Array  
    (  
      [0] => Glenn  
    )  
  [Brown] => Array  
    (  
      [0] => Cleveland  
      [1] => Loretta  
      [2] => Junior  
    )  
)
```

Example 2

Lets try displaying a single value from the array above:

```
echo "Is " . $families['Griffin'][2] .  
" a part of the Griffin family?";
```

The code above will output:

```
Is Megan a part of the Griffin family?
```