

PHP Basic Syntax 3

<https://www.w3schools.com/php/>

three types of arrays

- **Indexed arrays** - Arrays with a numeric index
- **Associative arrays** - Arrays with named keys
- **Multidimensional arrays** - Arrays containing one or more arrays

count() function is used to return the length (the number of elements) of an array

```
<?php  
$cars = array("Volvo", "BMW", "Toyota");  
echo count($cars);  
?>
```

PHP Indexed Arrays

```
<?php  
$cars = array("Volvo", "BMW", "Toyota");  
echo "I like " . $cars[0] . ", " . $cars[1] . "  
and " . $cars[2] . ".";  
?>
```

https://www.w3schools.com/php/phptryit.asp?filename=tryphp_array_num

I like Volvo, BMW and Toyota.

Loop Through an Indexed Array

https://www.w3schools.com/php/phptryit.asp?filename=tryphp_array_num_loop

```
<?php
```

```
$cars = array("Volvo", "BMW", "Toyota");  
$arrlength = count($cars);
```

```
for($x = 0; $x < $arrlength; $x++) {  
    echo $cars[$x];  
    echo "<br>";  
}  
?>
```

Volvo
BMW
Toyota

PHP Associative Arrays

```
$age = array("Peter"=>"35", "Ben"=>"37",  
"Joe"=>"43");
```

Or

```
$age['Peter'] = "35";  
$age['Ben'] = "37";  
$age['Joe'] = "43";
```

```
<?php
$age = array("Peter"=>"35", "Ben"=>"37", "Joe"=>"43");
echo "Peter is " . $age['Peter'] . " years old.";
?>
```

Peter is 35 years old.

https://www.w3schools.com/php/phptryit.asp?filename=tryphp_array_assoc

```
<?php
$age = array("Peter"=>"35", "Ben"=>"37", "Joe"=>"43");
foreach($age as $x => $x_value) {
    echo "Key=" . $x . ", Value=" . $x_value;
    echo "<br>";
}
?>
```

Key=Peter, Value=35
Key=Ben, Value=37
Key=Joe, Value=43

https://www.w3schools.com/php/phptryit.asp?filename=tryphp_array_assoc_loop

Two-dimensional Array

```
$cars = array  
(  
    array("Volvo",22,18),  
    array("BMW",15,13),  
    array("Saab",5,2),  
    array("Land Rover",17,15)  
);
```



```
<?php
echo $cars[0][0].": In stock: ".$cars[0][1].", sold:
".$cars[0][2].".<br>";
echo $cars[1][0].": In stock: ".$cars[1][1].", sold:
".$cars[1][2].".<br>";
echo $cars[2][0].": In stock: ".$cars[2][1].", sold:
".$cars[2][2].".<br>";
echo $cars[3][0].": In stock: ".$cars[3][1].", sold:
".$cars[3][2].".<br>";
?>
```

```
$cars = array
(
    array("Volvo",22,18),
    array("BMW",15,13),
    array("Saab",5,2),
    array("Land Rover",17,15)
);
```

Volvo: In stock: 22, sold: 18.
BMW: In stock: 15, sold: 13.
Saab: In stock: 5, sold: 2.
Land Rover: In stock: 17, sold: 15.

```

<?php
for ($row = 0; $row < 4; $row++) {
    echo "<p><b>Row number $row</b></p>";
    echo "<ul>";
    for ($col = 0; $col < 3; $col++) {
        echo "<li>".$cars[$row][$col]."</li>";
    }
    echo "</ul>";
}
?>

```

```

$cars = array
(
    array("Volvo",22,18),
    array("BMW",15,13),
    array("Saab",5,2),
    array("Land Rover",17,15)
);

```

Row number 0

- Volvo
- 22
- 18

Row number 1

- BMW
- 15
- 13

Row number 2

- Saab
- 5
- 2

Row number 3

- Land Rover
- 17
- 15

https://www.w3schools.com/php/phptryit.asp?filename=tryphp_array_multi2

Superglobals: they are always accessible, regardless of scope

- \$GLOBALS
- \$_SERVER
- \$_REQUEST
- \$_POST
- \$_GET
- \$_FILES
- \$_ENV
- \$_COOKIE
- \$_SESSION

PHP \$GLOBALS: \$GLOBALS[*index*]

The *index* holds the name of the variable.

```
<?php
$x = 75;
$y = 25;
function addition() {
    $GLOBALS['z'] = $GLOBALS['x'] + $GLOBALS['y'];
}
addition();
echo $z;
?>
```

https://www.w3schools.com/php/phptryit.asp?filename=tryphp_global_global

Superglobal - \$_SERVER: holds information about headers, paths, and script locations.

/demo/demo_global_server.php

35.194.26.41

35.194.26.41

https://tryphp.w3schools.com/showphp.php?filename=demo_global_server

Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)

Chrome/77.0.3865.120 Safari/537.36

/demo/demo_global_server.php

```
<?php
echo $_SERVER['PHP_SELF'];
echo "<br>";
echo $_SERVER['SERVER_NAME'];
echo "<br>";
echo $_SERVER['HTTP_HOST'];
echo "<br>";
echo $_SERVER['HTTP_REFERER'];
echo "<br>";
echo $_SERVER['HTTP_USER_AGENT'];
echo "<br>";
echo $_SERVER['SCRIPT_NAME'];
?>
```

```
<?php
echo $_SERVER[ 'PHP_SELF' ];
echo "<br>";
echo $_SERVER[ 'SERVER_NAME' ];
echo "<br>";
echo $_SERVER[ 'HTTP_HOST' ];
echo "<br>";
echo $_SERVER[ 'HTTP_REFERER' ];
echo "<br>";
echo $_SERVER[ 'HTTP_USER_AGENT' ];
echo "<br>";
echo $_SERVER[ 'SCRIPT_NAME' ];
?>
```



```
/php/globalServer.php
localhost
localhost:8088
```

```
<?php
echo $_SERVER[ 'PHP_SELF' ];
echo "<br>";
echo $_SERVER[ 'SERVER_NAME' ];
echo "<br>";
echo $_SERVER[ 'HTTP_HOST' ];
echo "<br>";
echo $_SERVER[ 'HTTP_REFERER' ];
echo "<br>";
echo $_SERVER[ 'HTTP_USER_AGENT' ];
echo "<br>";
echo $_SERVER[ 'SCRIPT_NAME' ];
?>
```

Notice: Undefined index: HTTP_REFERER in C:\xampp\htdocs\php\globalServer.php on line 12

Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/77.0.3865.120 Safari/537.36
/php/globalServer.php

https://tryphp.w3schools.com/showphp.php?filename=demo_global_server