

About Php

Before you continue: you should have a basic understanding of the following: **HTML CSS JavaScript**

PHP is an acronym for "PHP: **H**ypertext **P**reprocessor"

PHP is a widely-used, open source scripting language

PHP is free to download and use: www.php.net

Php PHP is a server scripting language

PHP files have extension ".php"

PHP files can contain text, HTML, CSS, JavaScript, and PHP code

Basic PHP Syntax

A PHP script starts with `<?php` // PHP code goes here and ends with `?>`:

A PHP file normally contains HTML tags, and some PHP scripting code.

```
<!DOCTYPE html>
<html> <body> <h1>My
first PHP page</h1> <?
php echo "Hello
World!"; ?> </body>
</html>
```

Comments in PHP // single-line comment

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Basic PHP Syntax (cont)

Comments in PHP // or # are the single-line comment And /* multiple-lines comment block */

PHP Case Sensitivity: In PHP, all keywords (e.g. if, else, while, echo, etc.), classes, functions, and user-defined functions are NOT case-sensitive. **However; all variable names are case-sensitive.**

Creating (Declaring) PHP Variables variable starts with the \$ sign, \$x = 5;

Output Variables

echo statement: echo \$x

PHP is a Loosely Typed Language we did not have to tell PHP which data type the variable is. PHP automatically converts the variable to the correct data type, depending on its value.

The Point 1

PHP The static Keyword Normally, when a function is completed/executed, all of its variables are deleted. However, sometimes we want a local variable NOT to be deleted. We need it for a further job.

To do this, use the static keyword when you first declare the variable: `static $x = 0;`

PHP 5 Data Types

PHP Data Types String Integer Float (floating point numbers - also called double) Boolean Array Object NULL Resource

PHP Array An array stores multiple values in one single variable. `$cars = array("Volvo","BMW","Toyota");`

PHP Object is a data type which stores data and information on how to process that data.

PHP NULL Value Null is a special data type which can have only one value: NULL. `$x = null;`

PHP Resource A common example of using the resource data type is a database call.

PHP 5 Constants

A constant is an identifier (name) for a simple value. The value cannot be changed during the script.

To create a constant, use the `define()` function.

Syntax

```
define(name, value, case-insensitive)
<?php
define("GREETING", "Welcome to
Amozeh.com!");
echo GREETING;
?>
```

PHP 5 Operators

=== Identical `$x === $y` Returns true if \$x is equal to \$y, and they are of the same type

PHP 5 Operators (cont)

!== Not identical Returns true if \$x is not equal to \$y, or they are not of the same type

PHP String Operators PHP has two operators that are specially designed for strings.

. \$txt1 . \$txt2 Concatenation of \$txt1 and \$txt2

.= \$txt1 .= \$txt2 Appends \$txt2 to \$txt1

PHP divides the operators in the following groups:

- Arithmetic operators
- Assignment operators
- Comparison operators
- Increment/Decrement operators
- Logical operators
- String operators
- Array operators

PHP Conditional Statements

The if Statement

```
if ($t < "20") { echo "Have a good day!"; }
```

The if...else Statement

```
if ($t < "20") { echo "Have a good day!"; } else { echo "Have a good night!"; } ?>
```

The PHP switch Statement

```
switch ($favcolor) { case "red": echo "Your favorite color is red!"; break; ... default: echo "Your favorite color isn't exists!!"; }
```

PHP Loops

while - loops through a block of code as long as the specified condition is true
do...while - loops through a block of code once, and then repeats the loop as long as the specified condition is true
for - loops through a block of code a specified number of times
foreach - loops through a block of code for each element in an array

```
<?php
$colors = array("red", "green", "blue", "yellow");
foreach ($colors as $value) {
echo "$value <br>";
}
?>
```

PHP 5 Functions

The real power of PHP comes from its functions; it has more than 1000 built-in functions.
 Besides the built-in PHP functions, we can create our own functions.

```
<?php
function sum($x, $y) {
    $z = $x + $y;
    return $z;
}
echo "5 + 10 = " . sum(5, 10) . "<br>";
echo "7 + 13 = " . sum(7, 13) . "<br>";
echo "2 + 4 = " . sum(2, 4);
?>
```

PHP 5 Arrays

An array stores multiple values in one single variable:

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

PHP 5 Arrays (cont)

In PHP, there are 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

Indexed Arrays

```
$cars = array("Volvo", "BMW", "Toyota"); OR
$cars[0] = "Volvo";
$cars[1] = "BMW";
$cars[2] = "Toyota";
```

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

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

Loop Through an Indexed Array

```
<?php $cars = array("Volvo", "BMW", "Toyota"); $arrlength = count($cars); for($x = 0; $x < $arrlength; $x++) { echo $cars[$x]; echo "<br>"; } ?>
```

Associative Arrays Associative arrays are arrays that use named keys that you assign to them.

There are two ways to create an associative array:

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



PHP 5 Arrays (cont)

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

Multidimensional arrays will be explained in the PHP advanced section.

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