

# PHP Variables

Variable is nothing it is just name of the memory location. A Variable is simply a container that is used to store both numeric and non-numeric information.

## Rules for Variable declaration

1. Variables in PHP starts with a dollar(\$) sign, followed by the name of the variable.
2. The variable name must begin with a letter or the underscore character.
3. A variable name can only contain alpha-numeric characters and underscores (A-z, 0-9, and \_)
4. A variable name should not contain space

## Assigning Values to Variables

Assigning a value to a variable in PHP is quite east: use the equality(=) symbol, which also to the PHP's assignment operators.

This assign value on the right side of the equation to the variable on the left.

A variable is created the moment you assign a value to it:

Eg

```
<?php  
  $myCar = "Honda";  
  echo $myCar;  
?>
```

Output- **Honda**

In the above example Create a variable (**\$mycar**) containing a string with **value="Honda"**. To print the car name pass **\$mycar** inside echo statement.

## PHP Concatenation

Eg ii (concatenate variable with string)

```
<?php  
  $myCar = "Honda City";  
  echo $myCar . " is riding"; // dot(.) operator is used to concatenate mycar variable  
  and is riding  
?>
```

Output- **Honda City is riding**

In the above example Variable(\$mycar) hold value="honda city". Now we wants to concatenate variable with string. pass this variable(\$mycar) inside echo statement. To concatenate this with a string("is riding") use dot(.) between variable name and string. The output will be displayed : Honda City is riding

Eg iii (Sum of two numbers)

```
<?php  
$first = 100;  
$second = 200;  
$third = $first + $second;  
echo "Sum = ".$third;  
?>
```

Output- **Sum = 300**

In the above example Declare \$first , \$second variable with value=100, 200 respectively. Now add these two numbers using arithmetic operator ("+" ). sum of these two variable result stored in a third variable(\$sum). Now print the sum passing (\$third) with echo statement with a string.

Eg iv (Subtraction of two numbers)

```
<?php  
$first = 1000;  
$second = 500;  
$third = $first - $second;  
echo "Subtraction = ".$third;  
?>
```

Output- **Subtraction = 500**

In the above example We perform subtraction using variables( \$first, \$second) with vale=1000,500. Subtract second variable from first, result is hold by third variable(\$third) . Print this third variable passing with echo statement.

## **Destroying PHP Variables**

To destroy a variable, pass the variable to PHP's unset( ) function. as in the following example:

Eg v

```
<?php
$name="steve";
echo $name;
//unset( ) function destroy the variable reference.
unset($name);
?>
```

Output steve

In the above example declare variable \$name hold value="steve". In this program we used unset() function to delete a particular variable. first it show the output: "steve", because we pass unset function after echo statement. Now pass variable name inside unset(\$name) function output will show an Notice error(Variable is undefined).

Eg vi

```
<?php
$first = 100;
$second = 200;
$third = $first + $second;
echo "Sum = ".$third;
unset($third);
//after delete the variable call it again to test
echo "Sum = ".$third;
?>
```

Output Sum = 300

Sum = Notice error undefined third variable

Note : Trying to access or use a variable that's been unset( ), as in the preceding script, will result in a PHP "undefined variable" error message. This message may or may not be visible in the output page, depending on how your PHP error reporting level is configured.

## Variable names in PHP are case-sensitive

```
<?php
$name="rexX";
$NAME="rahul";
echo $name."<br/>";
```

```
echo $NAME;  
?>
```

Output rexx Rahul

Variable names in PHP are case-sensitive. As a result, \$name refers to a different variable than does \$NAME.

## **Inspecting Variable Contents(Variable Property)**

PHP offers the `var_dump( )` function, which accepts a variable and X-rays it for you. Here's an example

Eg vii ( For String value )

```
<?php  
//define variables  
$name = "Fiona";  
$age=25;  
//display variable contents  
var_dump ($name);  
var_dump($age);  
?>
```

Output string 'Fiona' (length=5) int 25

In the above example We use `var_dump( )` function to check the Contents(property) of variable, \$name hold a string value ="Fiona" while \$age hold an integer value = 25. Now pass this variable inside `var_dump($name,$age)` function . It show all information related this(data type of variable, length(only string), value)

Eg viii ( For Integer values )

```
<?php  
$first = 100;  
$second = 200;  
$third = $first + $second;  
var_dump ($third);  
?>
```

Output int 300

Eg ix ( For Floating value )

```
<?php  
$first = 100.5;  
$second = 200.2;  
$third = $first + $second;  
var_dump ($third);  
?>
```

Output float 300.7

In the above example variables first hold \$first=100.5, second hold \$second=200.2. Now add these two values, result is stored in third variable(\$third). Pass this variable inside var\_dump(\$third) to check the content. output will float 300.7

Eg x ( For Boolean value )

```
<?php  
$bool = true;  
var_dump ($bool);  
?>
```

Output Boolean true

In the above variable \$bool with value="true". var\_dump(\$bool) function is used to display the result so output will display Boolean true, because variable holds a Boolean value