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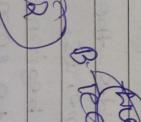
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17. THE BASICS OF PHP

All programming environments are built around syntax, some of which is used to declare and initialize variables. Variables are user defined containers which are used to store user defined values for later use.

For example, the passport number of a client may have to be referenced often by program code, it would be nice to define ppno (i.e. passport number) as a variable once, load it with a value and just refer to its contents, whenever required. Now any time the client's passport number needs to be referenced simply refer to the variable ppno which will return the value it stores.

DATA TYPES

PHP has several types of variables. All hold a specific class of information, except one.

The PHP variable types are:

- String Strings are a sequence of characters that are always internally NULL terminated. String variables hold characters. Usually a set of characters such as "S", "Ivan", "PHP is my favorite language" and so on. Strings can be as short or as long as desired. There is no limit to size
- Integer Integer variables hold whole numbers, either positive or negative such as 1, -50, 22937932 and so on. There is a maximum limit to the size of integers. Any numbers lower than -2147483647 and higher than 2147483647 are automatically converted to floats as this data type can hold a much larger range of values
- □ Float Float variables hold fractional numbers as well as very high integer numbers such as 3.5.
- Boolean Boolean variables hold TRUE or FALSE. Behind the scenes these are just integers. PHP considers the number 0 to be FALSE and everything else to be TRUE
- Array Arrays are a special variable type, which hold multiple values. They are a great way of storing variables that are related such as colors, days of the week, members of a team or items in a shopping basket
- Object Object variables are complex variables that have their own functions (i.e. methods) for accessing and/or manipulating their content
- Resource Resource variables are variables that hold anything that is not PHP data. This could be picture data loaded from a file, the result of an SQL query and so on. A Resource type variable is used like any other variable with the key difference being that they should be freed up by the user when not required

VARIABLES

Variables are nothing but identifiers which point to a memory location (RAM) in which data is stored. Variables in PHP are quite different from compiled languages such as C and Java. This is because PHP variables are weakly typed. This means that when a PHP variable is being defined their data type is not declared prior their use. A PHP variable takes its data type from the user defined value that is being stored in it. As a result, a PHP variable can change its type (based on the user value, data type), as often as needed

A PHP variable must be named / declared starting with the \$ character followed by a letter. The rest of the variable name can consist of a mix of both alphabets and numbers.

The following are three examples of valid names for variables:

- Scity
- \$address2
- Sage 30

The _ (underscore) character can also be used in variable names. It is used as a replacement for space. Space is a character that cannot be used when naming a PHP variable.

The following characters are not allowed in a variable name and cause errors if used:

- (asterix)
- (plus)
- (hash)
- (0) (at the rate)
- (minus)
- & (ampersand)
- £ (pound)

Tip



There is no limit on the size of variables in PHP.

Once a variable is named, it is empty until assigned a value. To assign a value to variable:

\$city = 'Mumbai';

Everything inside the single quotes will be assigned to the variable named city. The named variable is on the left side of = (i.e. the assignment operator) and the value to be held by the variable is on its right.

Tip



PHP does not require variables to be declared before being initialized. They can simply be populated with a value and put into action whenever and whereever required.

Similarly, numeric values can be assigned.

\$age = 24;

Here, Sage is assigned a value of 24. The only difference is that the value 24 is passed without quotation marks.



Variables declared without a dollar sign will not work. This is a common mistake by new PHP

Different types of values can be assigned to variables. Integer and String types have already been

Irrespective of the value a variable holds in the future, PHP takes care of integer and string conversions on the fly. Hence, the same variable can hold different types of user values, at different instances in time.

One thing that causes many hours of hair pulling and anguish is case sensitivity as PHP is case sensitive.

Example:

```
<?php
    $Name = "Ivan Bayross";
    echo $name;
?>
```

In the above example a variable named **\$Name** is declared. The value **Ivan Bayross** has been assigned but while accessing the value held by the variable, the variable name is **misspelled** (i.e. is in lowercase). This example when run displays the following error on the VDU screen:

```
Notice: Undefined variable: name on line 3
```

Numbers

It's really simple to deal with numbers in PHP. Just use them as required. All the normal rules about number precedence apply.

```
$x = 5;
$y = 10;
$z = 2 + 3 * $x + 5 * $y; // This is evaluated as 2+(3*5)+(5*10) = 67
echo $z;
```

When a variable is referenced by its name, PHP knows that it's the value held in the variable that must be processed and not the variable itself. This is automatically done before a new value is stored in the variable on the left hand side of the assignment operator. Hence, something like this can be done:

```
$x = 8;

$y = 4;

$x = (2 * $x + 5)/$y;  // Evaluated as $x = (2 * 8 + 5)/4 = 5.25
```

Strings

When assigning a String value to a variable it must be enclosed in quotes. Either single quotes (') or double quotes (") can be used. There is a vital difference between the two types of quotes.

The following code demonstrates this difference:

```
$firstName = 'Ivan';

$wishing = "Hello everyone, my first name is $firstName. <BR />";

echo $wishing;

$lastName = 'Bayross';

$greeting = ' Hello everyone, my last name is $lastName.';

echo $greeting;
```

This code produces the following output:

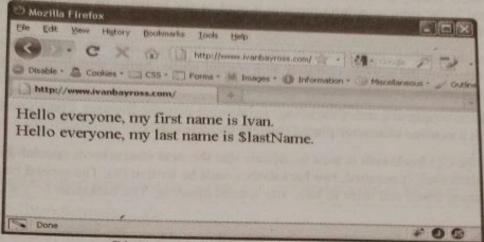


Diagram 17.1: Output of value in a string

When <u>double quotes</u> are used, PHP performs variable expansion, this means that PHP substitutes the value of **\$firstName** wherever a reference to **\$firstName** is encountered.

The result is that the string stored in the variable Swishing is Hi, my first name is Ivan.

When a value is assigned to the variable **\$greeting** and **single quotes** are used then PHP does not perform any variable expansion and hence **\$greeting** ends up with **Hello**, **my last name is \$lastName**. This means that anything enclosed in **single quotes** is treated as a **string constant** and is not changed in anyway by PHP when processed.

Double quotes are also used for expanding other special characters, such as the newline character (\n).

The following code:

```
<?php
   echo "Ivan\nBayross";
?>
```

Will look like this when the source of the web page is displayed: (Refer to diagram 17.1.1 and diagram 17.1.2)

The following diagrams depict the new line character application at runtime along with the source code.

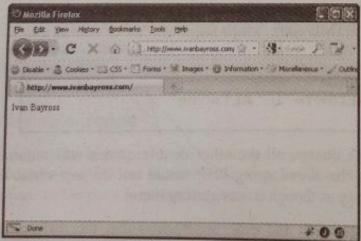


Diagram 17.1.1: Output of echo.php in Web browser

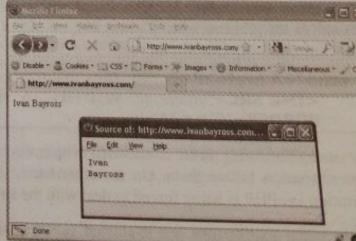


Diagram 17.1.2: Output of echo.php in web bro and in View source

However, browsers usually do not render the newline character while displaying the output. The newline However, browsers usually on the newline character while displaying the output. The newline character passed to the echo or print() function is sent to the browser as string information and not formatting information. Hence
 tag should be used instead to create a line break in HTML.

This means that the newline character can be seen only in the source code of the PHP based page because This means that the newline character as a normal space. Notice that there's no space before or

The echo statement simply dispatches the string, visible after it, to the Browser. There's no trace of the PHP code, but there is a newline character placed between the two words.

This is because the (\) backslash is used to indicate that the next character is special. In PHP code spec if a single backslash itself is required, two backslashes must be written (\\). The second backslash will then be treated as a string literal and seize to have any special meaning. The backslash (\) is called an escape

Similarly to display a \$ character within a string enclosed in double quotes, it will have to be preceded by a backslash. This is because PHP looks for a variable, since all variables start with a \$. This string will give a little problem:

```
$name = "Ivan Bayross is a Professor" residing in Mumbai";
```

If tried out, an error pops up. That's because the parser expects the string to stop after the second double quote, just after the word Professor. The rest of the line is ignored by the PHP parser. The following string

```
$name = "Ivan Bayross is a \"Professor \" residing in Mumbai";
echo $name;
```

This code produces the following output:

```
Ivan Bayross is a "Professor" residing
                                       in Mumbai
```

The same applies if single quotes were used throughout the string.

Another way to resolve this issue is to enclose the string within single quotes and then use as many double quotes within the string as required. Or

Do the inverse, enclose the string in double quotes and use as many single quotes in the string as required. This solves the problem when it's necessary to output HTML code, which requires a lot of double quotes within the structure of the string:

```
echo '<A href="mailto:ivan@ivanbayross.com">
   <IMG SRC="image.gif" WIDTH="16" HEIGHT="16" ALT="me"
  BORDER="0"></A>';
```

If the string following echo is enclosed within double quotes, all the other double quotes will require escape characters before them. On the other hand, in the above string PHP would not do any variable substitution i.e. PHP is being forced to deal with the string as though it was a string literal.

It's only when expressions are evaluated (as in assignments and echo statements) that the difference between single and double quotes come into the picture. After the assignment is done, no one can tell how the string was produced.

Consider the following example:

```
$fullname = 'Ivan Bayross is a ';
$profession = "Programmer";
$var1 = "$fullname $profession ";
$var2 = 'Ivan Bayross is a Programmer';
```

Variables Svar1 and Svar2 will both contain the string Ivan Bayross is a Programmer after evaluation, PHP will not make any distinction between the values stored in the two variables.

Joining Strings

To concatenate (add together) strings use the (.) period character (i.e. a dot or full stop).

```
$fullname = 'Ivan Bayross is a';

$profession = 'Programmer';

$data = $fullname.$profession;
```

Now **Sdata** will contain the string **Ivan Bayross is aProgrammer**. That's probably not what is wanted. It would be nice with a space between the words **a** and **Programmer**. To do this, execute the following code:

```
$data = $fullname . ' ' . $profession;
```

Notice that the space between the variable Sname and the dot is ignored, it's the string with the space (within single quotes) that's important.

This could be solved using variable substitution. It is often easier to read, just remember to use double quotes around the string. This PHP code gives the same results as concatenating two variables using a period:

```
$data = "$fullname $profession ";
```

When using variable substitution a tiny problem will be encountered. The problem occurs with substitution of a variable in a string, which requires having text immediately after the variable. The variable name has to be **delimited** somehow.

Using curly braces is the solution as shown:

```
$noun = 'car';
echo "A $noun, two ${noun}s";
```

The above code shows playing around with English words in plural form. The first occurrence of **Snoun** is substituted correctly, even when it is followed immediately by a comma because a comma cannot be a part of a name. But certainly there can be a variable called **Snouns**, so curly braces are used to indicate that the variable called **Snoun** is being referenced and not some nonexistent variable called **Snouns**.

Variable Scope

Each variable has an area (in program memory) in which it exists, known as its scope, which means a domain in which the variable (and therefore its value) can be accessed. In other words, variables have the scope of the page in which they reside.

For example if a variable named \$myVar is defined on a page, any code spec belonging to the rest of the page can access \$myVar, but other pages code spec cannot.

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All of this becomes interesting when user defined functions are used. Functions have their own scope, which means that variables used within a function are not available outside the run of the function. Variables defined outside a function are in turn not accessible to function code spec. For this reason, a variable inside a function can have the same name as one outside it and PHP will treat both as different variables and they can each hold different values. This is puzzling for most first time programmers.

It is technically possible for a PHP script to have several variables called Sa in existence during program

The reason why the scope of a variable is so important is because it prevents crucial variables from being manipulated unexpectedly. If a variable is available in the main part of the program and accidentally the same variable is modified inside a function, the program may not run the way it is expected to. Here's how to correctly use the scoping rules in PHP which in turn controls the visibility of PHP variables.

All variables set outside a function or an object are considered global. This means, they are accessible from anywhere in the PHP script.

Consider the following example:

```
<?php
    function function()
        global $myVar;
    $myVar = 35;
    // Function call.
   function();
?>
```

In the above example, \$myVar inside the function is the same as \$myVar outside it.

This further means that the function SmyVar already has a value of 35 and if that value changes inside the function, the external SmyVar's value will also change.

Example:

```
<?php
     // A global scope variable
     $MyGlobalScpVar = 35;
     // Defining a function
     function function()
        echo $MyGlobalScpVar;
    // Calling a function
    function();
?>
```

The above example when put into action will not produce any output because the echo statement refers to the local version of the \$MyGlobalScpVar variable and it has not been assigned a value within this scope.

This behavior is very much different from C where global variables are automatically available to functions unless specifically overridden by a local definition. This usually causes problems when programmers inadvertently change a global variable. In PHP global variables must be declared global inside a function

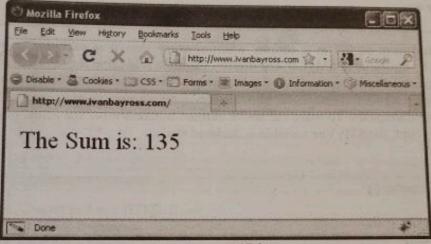


Diagram 17.2

When run the above example will display the result as 135. This is because \$var1 and \$var2 are now declared global within the function. All references made to either of these variables will point to the global version.



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There is no limit to the number of global variables that can be manipulated by a function.

Alternatively the same can be achieved by using the special PHP defined \$GLOBALS array.

Example:

The previous example can be rewritten as:

```
CHAP 17
MySum();
echo "The Sum is:", $var2;
```

The SGLOBALS array is an associative array with the name of the global variable being the key and the contents of that variable being the value of the array element.

Another important feature of variable scoping is the static variable. A static variable exists only in a local function scope, but it does not lose its value when program execution leaves this scope.

Example:

```
function MyCounter()
   $MyCtr = 0;
  echo $MyCtr;
  $MyCtr++;
```

This function should have served as a counter wherein every time it is executed it will increment the counter value held by the variable \$MyCtr and thereby maintain this value for future executions. However, currently every time this function is called, it sets the value of the variable \$MyCtr to 0 and displays 0 (zero). The \$MyCtr++ which increments the variable serves no purpose since as soon as the function exits, the SMyCtr variable disappears. To make the above defined function serve the actual purpose and not lose track of the current count, the \$MyVar variable is declared static.

Example:

```
function MyCounter()
   static $MyCtr = 0;
   echo $MyCtr;
   $MyCtr++;
```

Now, every time the MyCounter() function is called it will print the value of \$MyCtr and increment it.

Variable Variables

Variable variables allow accessing the contents of a variable without knowing its name directly. This is like indirectly referencing a variable.

Consider the following code spec:

```
<?php
   $book = PHP For Beginners;
   $name = "book";
?>
```

There are two ways to retrieve the value of \$book:

Use print \$book, which is quite straightforward

Or

Use print \$\$name (Note the use of two dollar signs when using the variable variables technique)

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By using \$\$name, PHP will look up the contents of \$name, convert it to a string, then look up the variable of the same name and return its value.

In the above example, Sname contains the string book and so PHP will look up the variable named Sbook and output its value in this case will be 5.1.

Example:

CHAP 17

```
<?php
  $book = "PHP For Beginners";
  $name = "book";
  $php = "name";
  $language = "php";
  print "Chapter in 4 in 1 HTML Book<BR />";
  print $book. "<BR />";
  print $$name . "<BR />";
  print $$$php . "<BR />";
  print $$$language . "<BR />";
  print $$$$]
```

Output: (Refer to diagram 17.3)

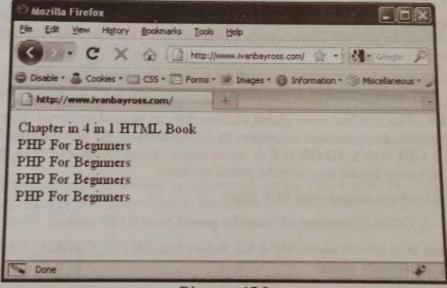


Diagram 17.3

PHP Superglobals

Superglobals are variables that are automatically available throughout all program code, in all scopes. These variables require no declaration they can simply be accessed. Super global variables provide:

- Useful information about the environment
- Allow access to HTML form variables or parameters
- Access to cookies stored on a client
- Keeping track of sessions and file uploads

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They are as follows:

S_GET - S_GET is used for data passed using the HTTP GET method, which includes variables

For example: www.sharanamshah.com/index.php?book=PHP&cat=linux

The GET method is conventionally used when the processing script has no lasting observable effect. such as changing a value in a database table. \$ GET has been around since PHP 4.1.0. Before that SHTTP_GET_VARS was used though this was not automatically global

- SPOST The HTTP POST method is very similar to the \$ GET. It is conventionally used when the contents of an HTML form are going to change values in a database table or make some other
 - S_POST has been around since PHP 4.1.0. Before that, \$HTTP_POST_VARS was used though this
- S_REQUEST S_REQUEST holds variables provided to the script via the GET, POST and COOKIE input mechanisms. The presence and the order of variable inclusion in this array are defined according to the PHP variables_order configuration directive. It is preferable to use this specific super global variable, if it is not known how the variables are being passed (i.e. which method GET or POST is

Additionally, this super global variable also contains all the information contained in \$_COOKIE \$_REQUEST can be put into action simply by replacing \$_POST or \$_GET with \$_REQUEST and

- \$_REQUEST has also been around since PHP 4.1.0. Before version 4.3.0, in addition to the contents of \$_POST, \$_GET and \$_COOKIE, \$_REQUEST also contained \$_FILES information
- □ \$_GLOBALS This is a final super global variable that can be used for forms. This would mean it is a super super global, as it contains references to all variables in the script's global scope. Replacing \$_POST or \$_GET with \$_GLOBALS in the examples above would also have the identical results. The keys of this array are the names of the global variables
 - \$ GLOBALS has been around since PHP 3.0.0
- □ \$_COOKIE \$_COOKIE contains all variables passed from HTTP cookies
 - \$_COOKIE has been around since PHP 4.1.0. Before that, \$HTTP_COOKIE_VARS was used though this was not automatically global
- S_FILES \$_FILES holds variables provided to the script via HTTP post file uploads to provide
 - \$_FILES has also been around since PHP 4.1.0. Before that, \$HTTP_POST_FILES was used though this was not automatically global

HAP 17

CHAP 17

THE BASICS OF PHP

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S_ENV - S_ENV holds variables provided to the script via the environment. Analogous to the old SHTTP_ENV_VARS array, which is still available, but deprecated

□ S_SESSION - S_SESSION holds variables which are currently registered to a script's session \$_SESSION, as with most of the super global variables, has been around since PHP 4.1.0. Before that, SHTTP_SESSION_VARS was used though this was not automatically global

SSERVER - Variables set by the web server or otherwise directly related to the execution

\$_SERVER has also been around since PHP 4.1.0. Before that, \$HTTP_SERVER_VARS was used though this was not automatically global

CONSTANTS

A constant, like variable, is a temporary placeholder in memory that holds a value. Unlike variables, the value of a constant never changes.

For example PI (3.14) or the value of midnight (12:00 am) are examples of constants applicable in a real

When a constant is declared, the define() function is used and requires the name of the constant and the value that is required to be assigned to that constant. The names for constants have the same rules as variables except that they do not have the leading dollar sign.

Unlike variables, constants, once defined are globally accessible. Constants need not be declared again and again in each new function and PHP file.

After a constant is created, using that constant is similar to using a variable. However, unlike variables, a script cannot change the value of a constant. Attempting to do so will generate an error.

Constants make it easy to write or maintain the code. Since the value of the constant is set when it is created, the same can be modified if desired. The rest of the script using the value held by the constants will not need any modifications to reflect the new value.

By convention, the constant name is always in uppercase. String values must be enclosed in quotation marks. Although they can be created anywhere in the script, it is considered good practice to put them at the beginning of the script.

A constant may be a string, an integer or a floating point value.

Syntax:

define("(ConstantName)", (Expr) [, (CaseSensitive)])

Where.

- ConstantName is the name of the constant
- Expr is any valid PHP expression excluding arrays and objects
- CaseSensitive is a Boolean (TRUE/FALSE) and is optional. The default is TRUE

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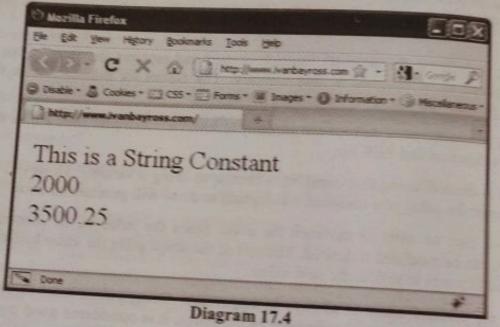
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```
Example:
```

```
<?php
     define("STRCONSTANT", "This is a String Constant");
define("INTCONSTANT", 2000);
     define("FLTCONSTANT", 3500.25);
     echo STRCONSTANT;
    echo '<BR />';
    echo INTCONSTANT;
    echo '<BR />';
    echo FLTCONSTANT;
   echo '<BR />';
?>
```

Output: (Refer to diagram 17.4)



Since constants are never preceded by a \$ (dollar sign), PHP cannot determine when a constant in used. Hence, it is not possible to embed a constant within a string. Example:

```
define(AUTHORS, "Ivan Bayross");
echo "This book is authored by AUTHORS";
```

Output:

```
This book is authored by AUTHORS
```

Now separate the constant from the string with the concatenation operator. Example:

```
define("AUTHORS", "Ivan Bayross");
echo "This book is authored by " . AUTHORS;
```

Output:

This book is authored by Ivan Bayross

17

PHP is bundled with some system defined constants that can be put to use in any PHP script. The most commonly used are:

FILE_	The filename of the
LINE_	The filename of the current script The current line number
PHP VERSION	The PHP warming
PHP_OS	The PHP version number The operating
TRUE	The operating system running PHP The value TRUE (1)
FALSE	The value FALSE (0)
NULL	The value FALSE (0 or an empty string) No value

HERE DOCUMENTS

HERE documents use a special form of I/O redirection to feed a command list to an interactive program or

They are a way of including large blocks of text (code spec) instead of using multiple statements.

The following example uses several echo statements.

Example:

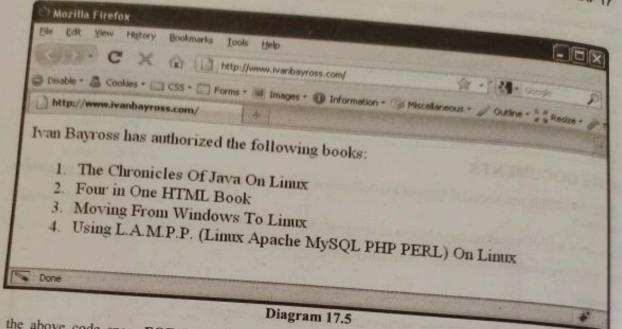
```
<?php
    echo "Ivan Bayross has authorized the following books:";
   echo "<OL>";
   echo "<LI>The Chronicles Of Java On Linux";
   echo "<LI>Four in One HTML Book";
   echo "<LI>Moving From Windows To Linux";
   echo "<LI>Using L.A.M.P.P. (Linux Apache MySQL PHP PERL) On Linux";
   echo "</OL>";
?>
```

The following example using here documents technique clubs all the echo statements.

Example:

```
<?php
$hereMessage = <<<EOF</pre>
Ivan Bayross has authorized the following books:
<0L>
    <LI>The Chronicles Of Java On Linux
   <LI> Four in One HTML Book
   <LI> Moving From Windows To Linux
   <LI> Using L.A.M.P.P. (Linux Apache MySQL PHP PERL) On Linux
</OL>
EOF;
echo ($hereMessage);
```

Output: (Refer to diagram 17.5)



In the above code spec, EOF is a string that delineates (frames) the command list. This can be any sequence of alphanumeric characters and/or underscores, although it must not begin with a number or an

The text of the here document then begins on the next line. To tell PHP that it has reached the end of the here document, simply include a line beginning with the final delimiter which was declared at the beginning (in this case EOF). TIP



The text within a here document is interpreted according to the same substitution rules as a doublequoted string, so variables and escape characters can also be included.

OPERATORS

An operator is any symbol used to perform an operation on a value. In PHP, operators can easily be grouped by function.

Operators are indispensable components of PHP. They are used for simple purposes such as assigning values to variables, working with strings, working with numbers, controlling program flow and so on.

PHP operators can be classified into the following areas:

- Unary operators
- Binary operators
- Ternary operator

Unary Operators

Unary Operators work on only one operand