PHP

Introduction to PHP

What is PHP?

- PHP is a recursive acronym for "PHP: Hypertext Preprocessor". It is a server side scripting language to make dynamic and interactive web pages.
- PHP is a open source language
- PHP is a easy to learn and runs on various platforms (Windows, Linux, Unix, Mac OS X, etc.)
- · PHP is a widely-used, free, and efficient alternative to competitors such as Microsoft's ASP
- PHP is a server-side scripting language designed for web development but also used as a generalpurpose programming language.

What can PHP do?

- PHP can generate dynamic page content
- PHP can create, open, read, write, delete, and close files on the server
- · PHP can collect form data
- · PHP can send and receive cookies
- PHP can add, delete, modify data in your database
- PHP can be used to control user-access
- PHP can encrypt data
- PHP can be used to include files
- PHP can be used to validate form data
- PHP can be used to filter data
- PHP can be used to send and receive emails

What is a PHP File?

- A PHP file can contain text, HTML, CSS, JavaScript, and PHP code
- PHP code are executed on the server, and the result is returned to the browser as plain HTML
- PHP files have extension ".php"

PHP Syntax

```
<?php
// PHP code goes here
?>
```

Statement terminator

```
<?php
    echo "Hello World";
?>
```

Line breaks

- PHP ignores line breaks
- PHP ignores white spaces
- · PHP ignores tabs

Way to break a line in output

```
<?php
    echo "Hello World<br>";
?>
```

Comments

- Single line comments
- Multi line comments
- Doc comments

Example

```
<?php
// This is a single line comment

# This is also a single line comment

/* This is a multi line comment
   This is the second line of the comment
   This is the third line of the comment */

/**

* This is a doc comment
  */

?>
```

Output in PHP

- echo
- print
- print_r
- var_dump

echo

- echo is a language construct, not a function
- · echo can take multiple parameters
- · echo has no return value
- · echo is marginally faster than print

echo example

```
<?php
    echo "Hello World";
    echo "Hello World", "Hello World";
?>
```

print

- print is a function, not a language construct
- print can take one argument
- print has a return value of 1 so it can be used in expressions
- · print is slower than echo

print example

```
<?php
    print "Hello World";
?>
```

print_r

- print_r is a function, not a language construct
- print_r can take one argument

print_r example

```
<?php
    print_r("Hello World");
?>
```

var_dump

var_dump is a function, not a language construct

var_dump can take one argument

var_dump example

```
<?php
   var_dump("Hello World");
?>
```

Data types

- String
- Integer
- Float
- Boolean
- Array
- Object
- NULL
- Resource

String

- A string is a sequence of characters, like "Hello world!"
- · A string can be any text inside quotes
- You can use single or double quotes for strings

String example

```
<?php
    $x = "Hello world!";
    $y = 'Hello world!';
?>
```

Integer

- An integer is a number without a decimal point, like 4195
- Integers can be specified in: decimal (base 10), hexadecimal (base 16), octal (base 8), or binary (base 2) notation

Integer example

Float

- A float (floating point number) is a number with a decimal point or a number in exponential form
- Floats can also be specified in scientific notation (for example: 2.0e3 or 7E-10)

Float example

Boolean

• A Boolean represents two possible states: TRUE or FALSE

Boolean example

```
<?php
    $x = true;
    $y = false;
?>
```

Array

• An array stores multiple values in one single variable

- An array is a special variable, which can hold more than one value at a time
- An array can hold many values under a single name, and you can access the values by referring to an index number

Array example

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

Object

- An object is a data type which stores data and information on how to process that data
- An object is a combination of variables and functions
- An object is like a variable, but it can also have functions
- Objects are created from classes, and they are the most important aspect of object-oriented programming

Object example

```
<?php
   class Car {
      function Car() {
         $this->model = "VW";
      }
   }
   // create an object
   $herbie = new Car();
   // show object properties
   echo $herbie->model;
}>
```

NULL

- NULL is a special data type which can have only one value: NULL
- A variable of data type NULL is a variable that has no value assigned to it
- NULL is the only possible value of type NULL
- NULL is case-sensitive

NULL example

```
<?php
    $x = "Hello world!";
    $x = null;
    var_dump($x);
?>
```

Resource

- · A resource is a special variable, holding a reference to an external resource
- A resource is created and used by a special function

Resource example

```
<?php
    $file = fopen("welcome.txt", "r");
?>
```

Variables

- Local variables
- Global variables
- Static variables

Local variables

- Local variables are the variables that are declared inside a function
- Local variables are only accessible within the function
- Local variables are destroyed when the function ends

Local variables example

```
<?php
function myFunction() {
    $x = 5; // local scope
    echo "<p>Variable x inside function is: $x";
}
myFunction();
// using x outside the function will generate an error
echo "Variable x outside function is: $x";
}>
```

Global variables

- Global variables are declared outside a function
- Global variables are accessible inside a function
- Global variables are accessible from anywhere in the script

Global variables example

Static variables

- Static variables are declared inside a function
- Static variables are only accessible within the function
- Static variables are not destroyed when the function ends

Static variables example

```
<?php
   function myFunction() {
      static $x = 0;
      echo $x;
      $x++;
   }
   myFunction();
   myFunction();
   myFunction();
}</pre>
```

Constants

- Predefined constants
- User-defined constants

Predefined constants

Predefined constants are constants that are built into PHP

- · Predefined constants are automatically defined by PHP
- Predefined constants are always available in all scopes

Predefined constants example

```
<?php
    echo PHP_VERSION;
    echo "<br/>    echo PHP_OS;
    echo "<br/>    echo "<br/>    echo LINE__;
    echo "<br/>    echo __FILE__;
    echo "<br/>    echo __DIR__;
```

User-defined constants

- User-defined constants are constants that you yourself create
- User-defined constants are created with the define() function
- User-defined constants are always global

User-defined constants example

```
<?php
   define("GREETING", "Welcome to W3Schools.com!");
   echo GREETING;
?>
```

Operators

- · Arithmetic operators
- · Assignment operators
- · Comparison operators
- Increment/Decrement operators
- · Logical operators
- String operators
- Array operators
- Conditional assignment operators

Arithmetic operators

• Arithmetic operators are used with numeric values to perform common mathematical operations, such as addition, subtraction, multiplication etc.

Operator	Name	Example	
+	Addition	\$x + \$y	
-	Subtraction	\$x - \$y	
*	Multiplication	\$x * \$y	
1	Division	\$x / \$y	
%	Modulus	\$x % \$y	
**	Exponentiation	\$x ** \$y	

Assignment operators

• Assignment operators are used with numeric values to write a value to a variable

Operator	Name	Example
=	Simple assignment	\$x = \$y
+=	Addition assignment	\$x += \$y
-=	Subtraction assignment	\$x -= \$y
*=	Multiplication assignment	\$x *= \$y
/=	Division assignment	\$x /= \$y
%=	Modulus assignment	\$x %= \$y
.=	Concatenation assignment	\$x .= \$y

Comparison operators

• Comparison operators are used to compare two values (number or string)

Operator	Name	Example
==	Equal	\$x == \$y
===	Identical	\$x === \$y

Operator	Name	Example
!=	Not equal	\$x != \$y
<>	Not equal	\$x <> \$y
!==	Not identical	\$x !== \$y
>	Greater than	\$x > \$y
<	Less than	\$x < \$y
>=	Greater than or equal to	\$x >= \$y
<=	Less than or equal to	\$x <= \$y
<=>	Spaceship	\$x <=> \$y

Increment/Decrement operators

- Increment operators increase a variable's value by one
- Decrement operators decrease a variable's value by one

Operator	Name	Example
++	Pre-increment	++\$x
++	Post-increment	\$x++
	Pre-decrement	\$x
	Post-decrement	\$x

Logical operators

• Logical operators are used to combine conditional statements

Operator	Name	Example
and	And	\$x and \$y
or	Or	\$x or \$y
xor	Xor	\$x xor \$y
&&	And	\$x && \$y

Operator	Name	Example
!	Not	!\$x

String operators

• String operators are used to concatenate two strings

Operator	Name	Example
	Concatenation	\$txt1 . \$txt2
.=	Concatenation assignment	\$txt1 .= \$txt2

Array operators

• Array operators are used to compare arrays

Operator	Name	Example
+	Union	\$x + \$y
==	Equality	\$x == \$y
===	Identity	\$x === \$y
!=	Inequality	\$x != \$y
<>	Inequality	\$x <> \$y
!==	Non-identity	\$x !== \$y

Conditional assignment operators

• Conditional assignment operators are used to assign a value to a variable based on a condition

Operator	Name	Example
??	Null coalescing	\$x ?? \$y
?:	Ternary	\$x ?: \$y

Conditional statements

- · if statement
- · if...else statement
- · if...elseif...else statement
- switch statement

if statement

- The if statement executes some code if one condition is true
- Syntax

```
if (condition) {
   code to be executed if condition is true;
}
```

if statement example

```
<?php
    $t = date("H");
    if ($t < "20") {
        echo "Have a good day!";
    }
}</pre>
```

if...else statement

- The if...else statement executes some code if a condition is true and another code if that condition is false
- Syntax

```
if (condition) {
    code to be executed if condition is true;
} else {
    code to be executed if condition is false;
}
```

if...else statement example

```
<?php
    $t = date("H");
    if ($t < "20") {
        echo "Have a good day!";
    } else {
        echo "Have a good night!";
    }
}</pre>
```

if...elseif...else statement

- The if...elseif...else statement executes different codes for more than two conditions
- Syntax

```
if (condition) {
    code to be executed if this condition is true;
} elseif (condition) {
    code to be executed if first condition is false and this condition is true;
} else {
    code to be executed if all conditions are false;
}
```

if...elseif...else statement example

```
<?php
    $t = date("H");
    if ($t < "10") {
        echo "Have a good morning!";
    } elseif ($t < "20") {
        echo "Have a good day!";
    } else {
        echo "Have a good night!";
    }
}</pre>
```

switch statement

- The switch statement is used to perform different actions based on different conditions
- Syntax

```
switch (n) {
    case label1:
        code to be executed if n=label1;
        break;
    case label2:
        code to be executed if n=label2;
        break;
    case label3:
        code to be executed if n=label3;
        break;
    ...
    default:
        code to be executed if n is different from all labels;
}
```

switch statement example

Loops

- · while loop
- · do...while loop
- for loop
- · foreach loop

while loop

- The while loop executes a block of code as long as the specified condition is true
- Syntax

```
while (condition is true) {
    code to be executed;
}
```

while loop example

```
<?php
    $x = 1;
    while($x <= 5) {
        echo "The number is: $x <br>";
        $x++;
    }
}
```

do...while loop

- The do...while loop will always execute the block of code once, it will then check the condition, and repeat the loop while the specified condition is true.
- Syntax

```
do {
    code to be executed;
} while (condition is true);
```

do...while loop example

```
<?php
    $x = 1;
    do {
        echo "The number is: $x <br>";
        $x++;
    } while ($x <= 5);
?>
```

for loop

- The for loop is used when you know in advance how many times the script should run.
- Syntax

```
for (init counter; test counter; increment counter) {
   code to be executed;
}
```

for loop example

```
<?php
   for ($x = 0; $x <= 10; $x++) {
       echo "The number is: $x <br>";
   }
?>
```

foreach loop

- The foreach loop works only on arrays, and is used to loop through each key/value pair in an array.
- Syntax

```
foreach ($array as $value) {
   code to be executed;
}
```

foreach loop example

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

Functions

- User-defined functions
- Built-in functions

User-defined functions

- A function is a block of statements that can be used repeatedly in a program.
- A function will not execute automatically when a page loads.
- A function will be executed by a call to the function.
- Syntax

```
function functionName() {
    code to be executed;
}
```

User-defined functions example

```
<?php
   function writeMsg() {
      echo "Hello world!";
   }
   writeMsg();
}>
```

Built-in functions

- A function is a block of statements that can be used repeatedly in a program.
- Syntax

```
function functionName() {
   code to be executed;
}
```

Built-in functions example

```
<?php
    echo strlen("Hello world!");
}>
```

Function arguments

- Arguments are specified after the function name, inside the parentheses.
- You can add as many arguments as you want, just separate them with a comma.

function arguments example

```
<?php
   function familyName($fname) {
       echo "$fname Refsnes.<br>";
   }
   familyName("Jani");
   familyName("Hege");
   familyName("Stale");
   familyName("Kai Jim");
   familyName("Borge");
}
```

Default argument value

• If we call the function setHeight() without arguments it will use the default value as argument.

default argument value example

```
<?php
function setHeight($minheight = 50) {
    echo "The height is : $minheight <br>";
}
setHeight(350);
setHeight(); // will use the default value of 50
setHeight(135);
setHeight(80);
}>
```

Returning values

• To let a function return a value, use the return statement.

returning values example

```
<?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);
?>
```

Classes and objects

- Class
- Object

Class

- A class is a template for objects, and objects are instances of a class.
- A class is a user-defined data type, which holds its own data members and member functions,
 which can be accessed and used by creating an instance of that class. A class is like a blueprint
 while an object is like a house built using the blueprint.

Syntax

```
class ClassName {
    // properties and methods goes here
}
```

Class example

```
<?php
  class Car {
    function Car() {
        $this->model = "VW";
    }
  }
  $herbie = new Car();
  echo $herbie->model;
}>
```

Object

- An object is an instance of a class.
- An object is a basic unit of Object Oriented Programming and represents the real life entities.
- Object is a real-world entity such as pen, bike, chair, table, keyboard, mouse, etc.
- Syntax

```
class ClassName {
    // properties and methods goes here
}
```

Object example

```
<?php
  class Car {
     function Car() {
        $this->model = "VW";
     }
  }
  $herbie = new Car();
  echo $herbie->model;
}>
```

Break and continue

- break
- continue

break

- The break statement can be used to jump out of a loop.
- Syntax

```
break;
```

break example

```
<?php
    for ($x = 0; $x < 10; $x++) {
        if ($x == 4) {
            break;
        }
        echo "The number is: $x <br>";
    }
}
```

continue

- The continue statement can be used to skip the current iteration in a loop.
- Syntax

```
continue;
```

continue example

```
<?php
   for ($x = 0; $x < 10; $x++) {
        if ($x == 4) {
            continue;
        }
        echo "The number is: $x <br>";
   }
}
```

Strings in PHP

• strlen()

- str_word_count()
- strrev()
- strpos()
- str_replace()

Function	Description	Example
strlen()	Returns the length of a string	echo strlen("Hello world!");
str_word_count()	Counts the number of words in a string	echo str_word_count("Hello world!");
strrev()	Reverses a string	echo strrev("Hello world!");
strpos()	Searches for a specific text within a string	echo strpos("Hello world!", "world");
str_replace()	Replaces some characters with some other characters in a string	echo str_replace("world", "Dolly", "Hello world!");

Arrays in PHP

- An array is a special variable, which can hold more than one value at a time. it is a container which can hold multiple values at the same time.
- An array is a data structure which stores values of same data type.
- Array is a collection of elements which are accessed using an index.

Creating an array

- There are three ways to create an array in PHP.
- 1. array() function
- 2. array keyword
- 3. short array syntax

array() function

Syntax

```
array(value1, value2, value3, ...)
```

array() function example

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

array keyword

Syntax

```
array = [value1, value2, value3, ...]
```

array keyword example

```
    $cars = ["Volvo", "BMW", "Toyota"];
    echo "I like " . $cars[0] . ", " . $cars[1] . " and " . $cars[2] . ".";
}>
```

short array syntax

Syntax

```
array = [value1, value2, value3, ...]
```

short array syntax example

```
    $cars = ["Volvo", "BMW", "Toyota"];
    echo "I like " . $cars[0] . ", " . $cars[1] . " and " . $cars[2] . ".";
}>
```

Types of arrays

Indexed arrays

- Associative arrays
- Multidimensional arrays

Indexed arrays

- An indexed array is an array that has a numeric index.
- Syntax

```
array = [value1, value2, value3, ...]
```

Indexed arrays example

```
    $cars = ["Volvo", "BMW", "Toyota"];
    echo "I like " . $cars[0] . ", " . $cars[1] . " and " . $cars[2] . ".";
}>
```

Associative arrays

- An associative array is an array that uses named keys that you assign to it.
- Syntax

```
array = [key1 => value1, key2 => value2, key3 => value3, ...]
```

Associative arrays example

Multidimensional arrays

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

```
array = [
    [value1, value2, value3, ...]
    [value1, value2, value3, ...]
    [value1, value2, value3, ...]
];
```

Multidimensional arrays example

Array functions

Function	Description	Example
count()	Counts the number of elements in an array	echo count(\$cars);
sort()	Sorts an array in ascending order	sort(\$cars);
rsort()	Sorts an array in descending order	rsort(\$cars);
asort()	Sorts an associative array in ascending order, according to the value	asort(\$age);
ksort()	Sorts an associative array in ascending order, according to the key	ksort(\$age);
arsort()	Sorts an associative array in descending order, according to the value	arsort(\$age);
krsort()	Sorts an associative array in descending order, according to the key	krsort(\$age);

Accessing HTML data using get and post method

- The HTML form data can be accessed using the ${}_{G}ET and_{}$ POST variables.
- The \$_GET variable is used to collect form data after submitting an HTML form with method="get".

 The \$_POST variable is used to collect form data after submitting an HTML form with method="post".

get method

- The \$_GET variable is an associative array that contains the data sent using the GET method.
- The data sent using the GET method is visible to everyone.
- The data sent using the GET method is visible in the URL.
- The data sent using the GET method is limited to 1024 characters.
- The data sent using the GET method is not secure.
- The data sent using the GET method is not recommended for sensitive data.
- The data sent using the GET method is not recommended for sending passwords or credit card numbers.
- The data sent using the GET method is not recommended for sending large amounts of data.
- The data sent using the GET method is not recommended for sending binary data, such as images
 or files.

get method example

```
<?php
    echo "Study " . $_GET['subject'] . " at " . $_GET['web'];
?>
```

subject and web are the names of the input fields in the HTML form.

post method

- The \$ POST variable is an associative array that contains the data sent using the POST method.
- The data sent using the POST method is not visible to everyone.
- The data sent using the POST method is not visible in the URL.
- The data sent using the POST method is not limited to 1024 characters.
- The data sent using the POST method is secure.
- The data sent using the POST method is recommended for sensitive data.
- The data sent using the POST method is recommended for sending passwords or credit card numbers.
- The data sent using the POST method is recommended for sending large amounts of data.
- The data sent using the POST method is recommended for sending binary data, such as images or files.

post method example

```
<?php
   echo "Study " . $_POST['subject'] . " at " . $_POST['web'];
?>
```

• subject and web are the names of the input fields in the HTML form.

User defined functions and there usage

- A function is a block of statements that can be used repeatedly in a program.
- A function will not execute immediately when a page loads.
- A function will be executed by a call to the function.

function syntax

```
function functionName() {
    // code to be executed
}
```

function example

```
<?php
   function writeMsg() {
      echo "Hello world!";
   }
   writeMsg(); // call the function
?>
```

Date and Time in PHP

- date()
- time()
- mktime()
- strtotime()

date()

- it is used to format a local time/date.
- Syntax

```
date(format, timestamp)
```

date() example

```
<?php
    echo "Today is " . date("Y/m/d") . "<br>";
    echo "Today is " . date("Y.m.d") . "<br>";
    echo "Today is " . date("Y-m-d") . "<br>";
    echo "Today is " . date("1");
}
```

time()

- it is used to return the current time in seconds since the Unix Epoch (January 1 1970 00:00:00 GMT).
- Syntax

```
time()
```

time() example

```
<?php
    echo "The time is " . date("h:i:sa");
?>
```

- h is hour in 12-hour format
- i is minutes
- s is seconds
- a is am or pm

mktime()

- it is used to get Unix timestamp for a date.
- Syntax

```
mktime(hour, minute, second, month, day, year)
```

mktime() example

```
<?php
    $d = mktime(11, 14, 54, 8, 12, 2014);
    echo "Created date is " . date("Y-m-d h:i:sa", $d);
}</pre>
```

strtotime()

- it is used to convert a human readable string to a Unix timestamp.
- Syntax

```
strtotime(time, now)
```

strtotime() example

- Y is year
- m is month
- d is day
- h is hour
- i is minutes
- s is seconds
- a is am or pm

Number in PHP

Function	Description	Example
abs()	Returns the absolute (positive) value of a number	echo abs(-6.7);

Function	Description	Example
acos()	Returns the arc cosine of a number	echo acos(0.64);
acosh()	Returns the inverse hyperbolic cosine of a number	echo acosh(64);
asin()	Returns the arc sine of a number	echo asin(0.64);
asinh()	Returns the inverse hyperbolic sine of a number	echo asinh(64);
atan()	Returns the arc tangent of a number	echo atan(0.64);
atan2()	Returns the arc tangent of two variables	echo atan2(0.64, 0.64);
atanh()	Returns the inverse hyperbolic tangent of a number	echo atanh(0.64);
base_convert()	Converts a number between arbitrary bases	echo base_convert("FF", 16, 2);
bindec()	Converts a binary number to a decimal number	echo bindec(11111111);
ceil()	Rounds a number up to the nearest integer	echo ceil(0.60);
cos()	Returns the cosine of a number	echo cos(0.64);
cosh()	Returns the hyperbolic cosine of a number	echo cosh(0.64);
decbin()	Converts a decimal number to a binary number	echo decbin(255);
dechex()	Converts a decimal number to a hexadecimal number	echo dechex(255);
decoct()	Converts a decimal number to an octal number	echo decoct(255);
deg2rad()	Converts the number in degrees to the radian equivalent	echo deg2rad(45);

Function	Description	Example
exp()	Returns e raised to the power of a number	echo exp(0.64);
expm1()	Returns exp(number) - 1, computed in a way that is accurate even when the value of number is close to zero	echo expm1(0.64);
floor()	Rounds a number down to the nearest integer	echo floor(0.60);
fmod()	Returns the floating point remainder (modulo) of the division of the arguments	echo fmod(0.64, 0.64);
getrandmax()	Returns the largest possible random value	echo getrandmax();
hexdec()	Converts a hexadecimal number to a decimal number	echo hexdec(FF);
hypot()	Calculates the length of the hypotenuse of a right-angle triangle	echo hypot(0.64, 0.64);
is_finite()	Finds whether a value is a legal finite number	echo is_finite(0.64);
is_infinite()	Finds whether a value is infinite	echo is_infinite(0.64);
is_nan()	Finds whether a value is not a number	echo is_nan(0.64);
lcg_value()	Returns a random number from the combined linear congruential generator	echo lcg_value();
log()	Returns the natural logarithm of a number	echo log(0.64);
log10()	Returns the base-10 logarithm of a number	echo log10(0.64);
log1p()	Returns log(1 + number), computed in a way that is accurate even when the value of number is close to zero	echo log1p(0.64);
max()	Finds highest value	echo max(0.64, 0.64);

Function	Description	Example
min()	Finds lowest value	echo min(0.64, 0.64);
mt_getrandmax()	Returns the largest possible random value	echo mt_getrandmax();
mt_rand()	Generates a better random value	echo mt_rand();
mt_srand()	Seeds the better random number generator	echo mt_srand();
octdec()	Converts an octal number to a decimal number	echo octdec(377);
pi()	Returns the value of pi	echo pi();
pow()	Exponentiation operator	echo pow(0.64, 0.64);
rad2deg()	Converts the radian number to the equivalent number in degrees	echo rad2deg(0.64);
rand()	Generates a random integer	echo rand();
round()	Rounds a number	echo round(0.60);
sin()	Returns the sine of a number	echo sin(0.64);
sinh()	Returns the hyperbolic sine of a number	echo sinh(0.64);
sqrt()	Returns the square root of a number	echo sqrt(0.64);
srand()	Seeds the random number generator	echo srand();
tan()	Returns the tangent of a number	echo tan(0.64);
tanh()	Returns the hyperbolic tangent of a number	echo tanh(0.64);

Miscellaneous Library Functions in PHP

Function	Description	Example
constant()	Returns the value of a constant	echo constant("PHP_VERSION");

Function	Description	Example
defined()	Checks whether a given named constant exists	echo defined("PHP_VERSION");
die()	Prints a message and exits the current script	echo die("Something went wrong");
echo()	Outputs one or more strings	echo echo("Something went wrong");
empty()	Checks whether a variable is empty	echo empty(\$var);
exit()	Prints a message and exits the current script	echo exit("Something went wrong");
eval()	Evaluates a string as PHP code	echo eval("echo 'Hello World';");
get_browser()	Returns information about the user's browser	echo get_browser();
get_defined_constants()	Returns an array with the names of all the constants and their values	echo get_defined_constants();
get_defined_functions()	Returns an array with the names of all the defined functions	<pre>echo get_defined_functions();</pre>
get_defined_vars()	Returns an associative array with the names of all the variables and their values	echo get_defined_vars();
get_include_path()	Returns the current include_path configuration option	echo get_include_path();

Function	Description	Example
get_included_files()	Returns an array with the names of all the files that have been included, either with require or include	echo get_included_files();
get_loaded_extensions()	Returns an array with the names of all the modules compiled and loaded	echo get_loaded_extensions();
get_magic_quotes_gpc()	Gets the current configuration setting of magic_quotes_gpc	echo get_magic_quotes_gpc();
get_magic_quotes_runtime()	Gets the current active configuration setting of magic_quotes_runtime	echo get_magic_quotes_runtime();
getenv()	Gets the value of an environment variable	echo getenv("PATH");
gettype()	Gets the type of a variable	echo gettype(\$var);
import_request_variables()	Imports GET/POST/Cookie variables into the global scope	echo import_request_variables("GPC");
ini_alter()	Changes the value of a configuration option	echo ini_alter("display_errors", "On");
ini_get()	Gets the value of a configuration option	echo ini_get("display_errors");