What is PHP?

* PHP is an acronym for "PHP: Hypertext Preprocessor"
* PHP is a widely-used, open source scripting language
* PHP scripts are executed on the server
* PHP is free to download and use

What is a PHP File?

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

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

With PHP you are not limited to output HTML. You can output images, PDF files, and even Flash movies. You can also output any text, such as XHTML and XML.

Why PHP?

* PHP runs on various platforms (Windows, Linux, Unix, Mac OS X, etc.)
* PHP is compatible with almost all servers used today (Apache, IIS, etc.)
* PHP supports a wide range of databases
* PHP is free. Download it from the official PHP resource: [www.php.net](http://www.php.net/)
* PHP is easy to learn and runs efficiently on the server side

What's new in PHP 7

* PHP 7 is much faster than the previous popular stable release (PHP 5.6)
* PHP 7 has improved Error Handling
* PHP 7 supports stricter Type Declarations for function arguments
* PHP 7 supports new operators (like the spaceship operator: <=>)

## PHP Syntax

A PHP script can be placed anywhere in the document.

A PHP script starts with <?php and ends with ?>:

<?php  
// PHP code goes here  
?>

The default file extension for PHP files is ".php".

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

Below, we have an example of a simple PHP file, with a PHP script that uses a built-in PHP function "echo" to output the text "Hello World!" on a web page:

EXAMPLE

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

**Note:** PHP statements end with a semicolon (;).

## PHP Case Sensitivity

In PHP, keywords (e.g. if, else, while, echo, etc.), classes, functions, and user-defined functions are not case-sensitive.

In the example below, all three echo statements below are equal and legal:

### **Example**

<!DOCTYPE html>  
<html>  
<body>  
  
<?php  
ECHO "Hello World!<br>";  
echo "Hello World!<br>";  
EcHo "Hello World!<br>";  
?>  
  
</body>  
</html>

Look at the example below; only the first statement will display the value of the $color variable! This is because $color, $COLOR, and $coLOR are treated as three different variables:

EXAMPLE

<!DOCTYPE html>  
<html>  
<body>  
  
<?php  
$color = "red";  
echo "My car is " . $color . "<br>";  
echo "My house is " . $COLOR . "<br>";  
echo "My boat is " . $coLOR . "<br>";  
?>  
  
</body>  
</html>