

PHP 101

MODULE 4: PHP

WHAT IS PHP

- An open source general-purpose scripting language that is especially suited for web development and can be embedded into HTML

WHAT CAN PHP DO

- Server-side scripting
- Command line scripting
- Writing desktop applications

PHP can be used on all major operating systems, including Linux, many Unix variants (including HP-UX, Solaris and OpenBSD), Microsoft Windows, Mac OS X, RISC OS, and probably others.

VERSIONS

- 4, 5.3 - 5.6, 7.x
- <http://php.net/supported-versions.php>

TOOLS

- MAMP / XAMPP / WAMP
- <https://www.apachefriends.org/index.html>
- <https://www.mamp.info/en/>
- <http://www.wampserver.com/en/>

LOCALHOST

- "Localhost" refers to the local computer that a program is running on.
- IP: 127.0.0.1

SYNTAX

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

```
<?php
```

```
// PHP code goes here
```

```
?>
```

CASE SENSITIVITY

- All keywords (e.g. if, else, while, echo, etc.), classes, functions, and user-defined functions are case-sensitive.
- So \$color, \$COLOR, \$cOlOr are the same

VARIABLES

- Variables are "containers" for storing information
- It starts with the \$ sign

```
<?php  
$txt = "Hello world!";  
$x = 5;  
$y = 10.5;  
?>
```

ECHO / PRINT

- They are used to output or display data to the screen

```
<?php  
$txt = "Hello world!";  
echo $txt;
```

```
echo "Hello world";  
?>
```

DATA TYPES

- Variables can store data of different types, and different data types can do different things.
 - String
 - Integer
 - Float (floating point numbers - also called double)
 - Boolean
 - Array
 - Object
 - NULL
 - Resource

OPERATORS

- Operators are used to perform operations on variables and values.
- http://www.w3schools.com/php/php_operators.asp

CONDITIONAL STATEMENTS

- Conditional statements are used to perform different actions based on different conditions.

SWITCH STATEMENTS

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

LOOPS

- A loop is a sequence of instructions that is continually repeated until a certain condition is reached
 - 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

FUNCTIONS

- A piece of code which takes one more input in the form of parameter and does some processing and returns a value.
- PHP has 1000+ built-in functions
- We can create our own functions

ARRAY

- stores multiple values in one single variable

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

GLOBAL VARIABLES

- Built-in variables that are always available in all scopes
 - \$GLOBALS
 - \$_SERVER
 - \$_REQUEST
 - \$_POST
 - \$_GET
 - \$_FILES
 - \$_ENV
 - \$_COOKIE
 - \$_SESSION

http://www.w3schools.com/php/php_superglobals.asp

RESOURCE

- <https://www.udemy.com/php-mysql-tutorial>