

REVIEW PHP

Chapter 7 & 8

What is PHP file?

It contains text, HTML, CSS, JS, and PHP code.

Executed on the server, and the result is returned to the browser as plain HTML.

2. What can PHP do?

- Generate dynamic page content.
- Create, open, read, write, delete, and close files on the server.
- Send and receive cookies
- Add, delete, and modify data in the database
- Control user access
- Encrypt data

1. What is PHP?

- ☐ An open source scripting language.
- ☐ PHP scripts are executed on the server.
- ☐ Free to download and use.

3. Why PHP?

- ☐ Runs on various platforms (Windows, Linux, Unix, Mac OS X, etc.).
- ☐ Compatible with almost all servers used today (Apache, IIS, etc.).
- ☐ Supports a wide range of databases.
- ☐ Free.
- ☐ Easy to learn and runs efficiently on the server side.

PHP Header Function

The header() function sends a raw HTTP header to a client.

```
<?php  
header('Location: http://www.example.com/');  
?  
#html>  
...  

```

PHP Include Examples

```
// This file called footer.php  
<?php  
$color="red";  
$car="BMW";  
?  
echo "<p>Copyright &copy; 1999- . date('Y') . " W3Schools.com/<p>";  
?>
```

```
<html>  
<body>  
<!--welcome to my home page!!-->  
<!--Some text -->  
<!--Some more text.-->  
<?php  
include('footer.php');  
echo "I have a $color $car.";  
// after include 'footer.php' we can use the variables  
?  
</body>  
</html>
```

5. Rules for PHP Variables

- ☐ Variables start with \$ sign, followed by the name of the variable.
- ☐ Variables must start with a letter or the underscore.
- ☐ Variable names are case-sensitive.

```
<?php  
$cat = "Saudi Arabia";  
echo "I Love $cat!";  
// output: I love Saudi Arabia  
  
$x = 5;  
$y = 4;  
echo $x + $y; // output: 9  
  
$a = 10.345;  
var_dump($a);  
// var_dump() return variable type, output: float  
  
$z = true; // boolean example  
?>
```

1. Basic PHP Syntax

A PHP script can be placed anywhere in the document.

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

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

2. PHP Comments

A comment in code is a line that is not read or executed as part of the program.

Purpose: to be read by someone looking at the code.

```
<?php  
// This is a single-line comment  
# This is also a single-line comment  
  
/*  
This is a multiple-lines comment block  
that spans over multiple lines  
*/  
  
// You can also use comments as part of a line  
$x = 5 /* + 15 */ + 5;  
echo $x;  
?>
```

3. PHP Case Sensitivity

All keywords (like if, else, while, echo, classes, functions, are NOT case sensitive.

However, variables are case sensitive.

```
<?php  
// Below are legal statements ✓  
echo "Hello World!<br>";  
echo "Hello World!<br>";  
Echo "Hello World!<br>";  
  
$color = "red";  
echo "My car is ", $color, "<br>"; ✓  
echo "My house is ", $COLOR, "<br>"; ✗  
?>
```

7. The PHP Include Files

Very useful when you want to include the same PHP, HTML, or text on multiple pages in a website.

Including files saves a lot of work.

VS include VS require

require: produces fatal error (E_COMPILE_ERROR), and stops the script

include: produces a warning (E_WARNING), and continue the script

PHP Hypertext Preprocessor

4. Alternatives to PHP

- ☐ Active Server Pages (ASP)
- ☐ Python
- ☐ Node.js
- ☐ JavaScript
- ☐ Practical extraction and Report Language (Perl)

5. PHP is an amazing and popular language!

It is powerful enough to be at the core of the biggest blogging system on the web (WordPress!)

It is deep enough to run the largest social network (Facebook!)

6. PHP Code

4. PHP String and String Functions

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

```
<?php  
$s = "Hello world!"; // double quotes  
$y = 'Hello world!'; // single quotes  
  
echo $s;  
echo "<br>";  
echo $y;  
  
echo strlen("Hello world!"); // output: 12  
echo str_word_count("Hello world!"); // output: 2  
echo strpos("Hello world!"); // output: 0 (row eleven)  
echo strpos("Hello world", "world"); // output: 6  
echo str_replace("world", "holly", "Hello world!");  
// output: Hello holly!  
?>
```

When to use \$_GET?

When the information sent from the form can be visible to everyone (all variable names and values are displayed in the URL).

GET has a limitation on the amount of information to send; about 2000 characters.

VS Get VS Post

\$_GET is an array of variables, passed to the current script, via the URL parameters.

\$_POST is an array of variables, passed to the current script, via the HTTP POST method.

When to use \$_POST?

When the information sent from the form should be invisible to others (all names or values are embedded within the body of the HTTP request)

Has no limits on the amount of information to send