

Language basics

script start	<?php
script end	?> or nothing
command termination	;
inline comment	// simple oneliner
block comment	/* multiline text */
run script from file (if error throws warning)	include('script.php');
run script from file (errors are fatal)	require('script.php');

Variables

declaration without value	\$variable Name;
string declaration	\$string = "some text";
integer declaration	\$int = 123;
double declaration	\$double = 1.2
empty array declaration	\$array = array();
array with elements declaration	\$a = array("text", 1, 2, 3);
boolean declaration	\$bool = true;
null declaration	\$empty = null;

Variable operations

addition	\$int1 + \$int2 -> 12
division	6 / 3 -> 2
multiplication	6 * 6 -> 36
exponentiation	2 ** 4 -> 16

Variable operations (cont)

subtraction	2 - 1 -> 1
string + int (string get converted) #1	"13s hit s" + 13 -> 26
string + int (string get converted) #1	"shits f13" + 13 -> 13
string + string	"2dogs" + "5dogs" -> 7
strings concat	\$str1 . \$str2 -> hello stranger!
string and int concat	"numero uno - " . 1; -> numero uno - 1
unset - delete variable	unset(\$variable);

```
$int1 = 5;
$int2 = 7;
$str1 = "hello ";
$str2 = "stranger!";
```

Flow control

simple condition	if (true){ echo("condition pass"); }
is var1 equal to var2?	if (\$var1 == \$var2){ echo("it is."); } else { echo("it isn't."); }
two vars comparison	(\$var1 == \$var2)
is var equal to int?	(\$var1 == 4)
is var lower than int?	(\$int < 4)
is var bigger than int?	(\$int > 4)



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Flow control (cont)

is var lower than 5 and not equal to zero	<code>(\$int < 5 && \$int != 0)</code>
is string equal to string?	<code>(\$str == " dan ger ous ")</code>
is num 1 or 4?	<code>(\$num == 1 \$num == 4)</code>

Array operations

get array element by index	<code>\$array [index]</code>
push data to end of array	<code>array_ push (\$ array, \$data);</code> OR <code>\$array[] = \$data;</code>
push data to specific index of array	<code>\$array ['m yCo lor'] = " #FF F";</code>
remove & get last element of array	<code>array_ pop (\$a rray);</code>
get count of elements in array	<code>count (\$ar ray);</code>
is specific value in array?	<code>in_ arr ay(\$ne edle, \$array);</code>

Output

simple print	<code>echo(\$ var iable . " and some text");</code>
simple print #2	<code>echo 1;</code>
simple print #3 (must be without parentheses)	<code>echo 1,2; -> 12</code>
print multiple lines	<code>echo("l ine 1\n lin e2 \n");</code>
print variable type and data	<code>print_ r(\$ var);</code>

Output (cont)

print variable type and data (detailed)	<code>var_ du mp(\$var);</code>
conditional printing	<code>echo(\$var1 == 1 ? "its 1!" : "its not 1!");</code>

Loops

for - classic loop (start instruction; condition on start of each round;end instruction of each round)	<code>for (\$i = 1; \$i <= 10; \$i++) { echo \$i; }</code>
foreach - do something for each element in array	<code>foreac h(\$ array as \$arrayElement) { var_dump(\$arrayElement); }</code>
while - do something if cond is true again and again if is still true	<code>while(true){ echo("infinity!"); }</code>
break - escape from loop	<code>break;</code>
continue - skip current round	<code>continue;</code>

PHP Filesystem Functions

check if file exists	<code>file_ e xis ts(" /ro ot/ fil e.t xt") ;</code>
open a file for reading only	<code>\$file = fopen("../f ile.tx t", " - r");</code>
get size of file in bytes	<code>filesi ze(" fil e.t xt");</code>



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PHP Filesystem Functions (cont)

print all bytes from fopened file	<code>echo fread(\$file, filesize(" file.txt"));</code>
open a file for reading only	<code>\$file = fopen("../file.txt", "r");</code>
write to fopened file	<code>fwrite(\$file, "some text\n");</code>
close file after all operations	<code>fclose(\$file);</code>
online file write	<code>file_put_contents(\$filename, \$data);</code>
online file read	<code>\$fileContent = file_get_contents(\$filename);</code>
fopen() modes (second argument)	r = Read r+ = Read, write and prepend w = Write, truncate w+ = Read and write, truncate a = Read and write, append

Useful variables (cont)

<code>\$_SERVER['HTTP_USER_AGENT']</code>	User-Agent: header from the current request
<code>\$_SERVER['REMOTE_ADDR']</code>	The IP address from which the user is viewing the current page
<code>__FILE__</code>	The full path and filename of the current script file
<code>__DIR__</code>	The directory of the file
<code>__LINE__</code>	Current line number in script file
<code>\$_GET</code>	Associative array of variables passed to the current script via the URL parameters
<code>\$_POST</code>	An associative array of variables passed to the current script via the HTTP POST method when using application/x-www-form-urlencoded or multipart/form-data as the HTTP Content-Type in the request
<code>\$_FILES</code>	An associative array of items uploaded to the current script via the HTTP POST method

Useful variables

<code>\$_SERVER</code>	Server and execution environment information
<code>\$_SERVER['SERVER_IP']</code>	Server IP
<code>\$_SERVER['REQUEST_METHOD']</code>	Which request method was used to access the page; i.e. 'GET', 'HEAD', 'POST', 'PUT'



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