

Language basics

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

Variables

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

Variable operations

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

Variable operations (cont)

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

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

Flow control

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



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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>foreach (\$ 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>fput_contents(\$filename, \$data);</code>
online file read	<code>\$fileContent = file_get_contents(\$filename);</code>
fopen()	r = Read
modes	r+ = Read, write and prepend
(second argument)	w = Write, truncate
	w+ = Read and write, truncate
	a = Append
	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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