

Web Design and Programming (0107558) Internet Programming (0107571)¹

PHP Functions

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¹Michael Mendez. *The Missing Link: An Introduction to Web Development and Programming*. Open SUNY Textbooks 2014.

Functions in PHP

User Defined Function in PHP

- ▶ A user-defined function declaration starts with the word *function*.
- ▶ Syntax:

```
function functionName() {  
    code to be executed;  
}
```
- ▶ A function name must start with a letter or an underscore.
- ▶ Function names are NOT case-sensitive.

Functions in PHP

Example

```
<?php
function writeMsg() {
    echo "Hello world!";
}

writeMsg(); // call the function
?>
```

Functions in PHP

Built-in Functions

- ▶ `strrev("dlrow olleH")`. Returns "Hello world."
- ▶ `strtoupper("Naeem")`. Returns "NAEEM"
- ▶ `strlen("What?")`. Returns 5

Functions in PHP

Arguments

```
function greet($lang){  
    if($lang=="es") return "Hola";  
    if($lang=="fr") return "Bonjour";  
    return "Hello";  
}
```

```
greet('es');//returns "Hola"  
greet();//This is an error
```

Default value for the argument

```
function greet($lang='es'){
```

Functions in PHP

By value and by reference (&)

- Arguments are passed to the functions by value (copy).

```
function foo($x){....}
```

```
$x=6;
```

```
foo($x);//$x is not affected.
```

```
function foo(&$x){....}
```

```
foo($x);//Now $x is affected.
```

Functions in PHP

Variable scopes

- ▶ Local scope. Inside a function.
- ▶ Global scope. Preceded with global keyword.
- ▶ Super global (\$_GET, \$_POST,...)

Functions in PHP

Check if a function exists

```
if (function_exists("array_combine")) echo "YES";
```

PHP configuration

```
<?php  
    phpinfo();  
?>
```


Functions in PHP

Include and require

- ▶ Include. (include "header.php";) if not there there will be no fail.
- ▶ Require. (require "header.php";) fail if it is not there.
- ▶ Require_once. In many files included required only once.

Example

```
<?php
    require "top.php";
    require "nav.php";
?>
<div id="container">
    <h1>Application</h1>
    .
    .
</div>
<?php
    require "foot.php";
```

Functions in PHP

Demo

4-phpfunction.php

Functions in PHP

Quiz - 1

- ▶ Why should you use functions?
 - ▶ Avoid repetitive code
 - ▶ To make it harder for others to use your code
 - ▶ Organize your code
 - ▶ Break complex code into logical chunks
- ▶ Which keyword defines a new function?
 - ▶ new
 - ▶ define
 - ▶ new functions
 - ▶ function
- ▶ Return values are type-specific in php functions (a function only returns a value of a specified data type.)
 - ▶ True
 - ▶ False

Functions in PHP

Quiz - 2

- ▶ What output does the following code produce?

```
function double($val){  
    $val = $val * 2;  
    return $val;  
}  
$val = 15;  
$dval = double($val);  
echo "Value = $val Doubled = $dval";
```

- ▶ Value = 15 Doubled = 15
- ▶ Value = Doubled =
- ▶ Value = 15 Doubled = 30
- ▶ Value = 30 Doubled = 30

Functions in PHP

Quiz - 3

- ▶ Which keyword is used to use code from one php file into a different PHP file?
 - ▶ include
 - ▶ add
 - ▶ append
 - ▶ point
- ▶ Which function prints out the internal configuration capabilities of your particular PHP installation?
 - ▶ phpinfo()
 - ▶ phpver()
 - ▶ info()
 - ▶ version()
- ▶ Adding an ampersand (&) to a function parameter indicates that you are using call by [] for that parameter.

Functions in PHP

Quiz - 4

- ▶ The keyword [`global`] will expand the scope of a variable outside of its function.
- ▶ The [`function_exists`] function is used to check if a function already exists or not.
- ▶ It is common to use uppercase and/or long names for global variables to avoid confusion or mistaken reuse.
 - ▶ True
 - ▶ False