

CMPS 2680 Homework 11

Fall 2024

Running PHP

You can run a php script directly from the server cli by using the php command:

```
paul@odin:~/public_html/cs2680$ php myscript.php
```

You can also execute a php script from the browser by providing the full URL path:

```
https://cs.csub.edu/~paul/cs2680/myscript.php
```

Notice that when you access PHP from the browser, you will only be able to see the output.

PHP code is processed by the server BEFORE a response is sent.

DataTypes

PHP is a loosely typed language. However, there are a few functions to work with types when necessary:

- get or set the state of a variable:
`isset, unset, empty`
- get or set the type of a variable:
`gettype, settype`
- type checkers:
`is_int, is_float, is_string, is_bool, is_array, is_object, is_null, is_resource`

Scope

- **Superglobals:** global scope, already defined
`$_GET, $_POST, $GLOBALS, $_COOKIE, $_SESSION, $_FILE, $_ENV, $_REQUEST, $_SERVER`
- **Constants:** global scope, using `define` function
- **Global Variables:** global scope of script, and func **if declared
- **Static Variables:** local to function/class definition, retains value
- **Function Variables:** local to function

Operators

- Assignment: `=`
 - Arithmetic: `+ - * / %`
 - Arithmetic Assignment: `+= -= *= /= %=`
 - String ops: `. .=`
 - increment/decrement (pre & post): `++ --`
 - Comparison: `< > <= >= == === != !== <>`
 - Logic: `&& || ! and or xor`
- Important info about precedence: <https://www.php.net/manual/en/language.operators.logical.php>
- Ternary/Conditional: `? :`

Control Structures

- `if(expression) { ... }`
- `if(expression) { ... } else { ... }`
- `if(expression) { ... } elseif(expression) { ... } else { ... }`
- `switch($var) { case <int, float, char, string>: ... break; default: ... }`

Looping

- `while(expression) { ... }`
- `do { ... }while(expression);`
- `for(init; test; update) { ... }`
- `foreach($arr as $key => $val) { ... }`

Turn On Errors & Logging

//MAKE SURE TO CHMOD YOUR ERROR LOG FILE PERMISSIONS TO 646

```
date_default_timezone_set("America/Los_Angeles");
ini_set('error_log', 'error.log');
ini_set('display_errors', 1);
```

Useful Info

`print_r()`: <https://www.php.net/manual/en/function.print-r.php>

`var_dump()`: <https://www.php.net/manual/en/function.var-dump.php>

`var_export()`: <https://www.php.net/manual/en/function.var-export.php>

`json_decode()`: <https://www.php.net/manual/en/function.json-decode.php>

`<?= $value ?>` : Shorthand for `<?php echo $value ?>`