

Just Enough PHP – for WordPress Users

- PHP runs on the web server before HTML is sent to the web browser.
- The only thing that is sent to the browser from a PHP program is what that program writes out.
- PHP can be embedded in HTML. You can have as many small snippets of PHP code as you'd like in an HTML program.
- The way the web server knows this is PHP, not just HTML is by the file extension. (.html vs .php)
- A PHP snippet is enclosed in `<?php some PHP code ?>`
- Variables start with a \$, example `$the_post`, `$wp_username`. They can contain letters (both upper and lowercase), numbers and underscores.
- Simple types: Boolean, Integer, Float, String. Ex. TRUE, 12, 3.14159, 'Garfield'.
- Complex types: Array, Object.
 - Arrays – are associative, i.e. instead of `$MyArray[1]` they are indexed by strings, like `$MyArray['name']`.
 - Objects – are a collection of variables and operations on those variables that represent a single concept. The way you interact with an object is through the functions defined for that object. To access a function associated with an object use `->`, ex. `$wp_user->get_name()`;
- Functions – A collection of PHP statements that complete an action. Functions have a name and arguments (variables) that they operate on.
- Statements – assignment, control (loops, ifs), function calls, output.
- Comments – several different styles

```
/*
many lines of interesting things to say
Date: 2/14/2014
Author: Norman Crabbs
*/
    $my_name = $wp_user['first_name']; // Get my name
    if ($user->exists()) { $n = $user->get_name(); } # Another comment
```

- Statements end with a semicolon.
- You can group statement together in blocks with curly braces.

```
if ($name == "Jamii") {
    $msg = "You can't do that";
} else {
    $msg = "Go ahead";
}
```
- Assignment statements, `$c = 5 / 9 * $f - 32`; or `$name = "J." . "K." . "Corley"`;
- Control statements:
 - IF (*Boolean expression*) { *statements* } ELSE { *statements* }
 - IF (*Boolean expression*) { *statements* }
 - FOR (*variable = start; Boolean expression; increment*) { *statements* }
 - WHILE (*Boolean expression*) { *statements* }

- Output statements: echo or print.
- Testing – results in a Boolean (TRUE or FALSE).
 - Equals ==
 - Greater than >
 - Less than <
 - Not equal !=
 - Greater than or equal to >=
 - Less than or equal to <=
- Boolean operations
 - AND, OR, NOT (&&, ||, !=)
 - ex. If ($\$a \neq 10 \ || \ \$a > 100$) { ... }
- Some Short hand:
 - $\$a += 10$; is the same as $\$a = \$a + 10$;
 - $\$name .= "Bunny"$; is the same as $\$name = \$name . "Bunny"$; // concatenate 'Bunny' to the end of \$name.
- Escaping characters: Use \
 - Example: print "<input type=text name=\"my_name\">";
- Some special characters:
 - \n – new line
- Special variables:
 - $\$_POST$ – array that contains values from a form.
 - $\$_GET$ – array that contains values from the URL
 - $\$_COOKIE$ - Cookies

To find more information on the syntax of PHP:

<http://www.php.net/manual/en/language.basic-syntax.php>

To look up any PHP function

<http://www.php.net>

Example 1. Some PHP to display the current date.

```
<html>
<head>
<title>My first PHP</title>
</head>
<body>
<h1>Today is <?php echo date("l"); ?></h2>
Date/Time: <?php echo date("F j,Y h:i:s a T"); ?>
</body>
</html>
```

Example 2. Build a table of Celsius to Fahrenheit conversions

```
<html>
<head>
<title>Celsius to Fahrenheit</title>
</head>
<body>
<h1>Celsius to Fahrenheit Conversions</h1>

<center>
<table border=1>
<tr>
<th>Celsius</th>
<th>Fahrenheit</th>
</tr>
<?php
  for ($c = 0; $c <= 100; $c += 10) {
    $f = 9/5 * $c + 32;
    print "<tr>\n";
    print "<td>$c</td>\n";
    print "<td>$f</td>\n";
    print "</tr>\n";
  }
?>
</table>
</center>
</body>
</html>
```

What happens if you break it.

Error message example:

Parse error: syntax error, unexpected T_PRINT
in /users/jamii/public_html/blackjaic.com/c2f.php on line 18

How does all this apply to WordPress

WordPress is written in PHP.

The way a page gets built in WordPress involves theme descriptions and code, and plugin additions. All these have some PHP involved.

Let's build a child theme and modify some of it's PHP code.

WP directory structure:

Main (which contains `wp-config.php` – your database information is kept here)

`wp-admin` – Admin area

`wp-includes` – WordPress code

`wp-content` – Things that change

`cache`

`plugins`

`themes`

`uploads`

Within the themes directory there is a subdirectory for each theme you have installed. Within a theme there are a bunch of files including `style.css`, `header.php`, `footer.php`, `image.php`, `single.php`, and `index.php`.

To make a child theme we create a subdirectory with the name of our theme, for example: `jkc_2011_child_theme`.

Create a `style.css` file inside this directory:

```
/*
Theme Name: Twenty Eleven Child
Theme URI: http://example.com/jkc_2011_child_theme/
Description: Twenty Eleven Child Theme
Author: Jamii
Author URI: http://blackjaic.com
Template: twentyeleven
Version: 1.0.0
Tags: light, dark, two-columns, right-sidebar, responsive-layout,
accessibility-ready
Text Domain: twenty-eleven-child
*/

@import url("../twentyeleven/style.css");

/* =Theme customization starts here
----- */
```

We' add any CSS changes here.

Suppose we want to change the header to be a slider instead of an image.

Copy over header.php from the twentyeleven theme directory.

We take a look at header.php and find the following code:

```
"  
    height="<?php echo $header_image_height; ?>"
```

We have found the short-code that displays a slider that we have installed:
[metaslider id=844]

We comment out the "
 height="<?php echo $header_image_height; ?>" alt="" />
*/
 echo do_shortcode('[metaslider id=844]');
```

Where to find out more about WordPress functions: <http://codex.wordpress.org>