

Variable Declaration

Format

```
$<variable name>=<variable value>;
```

Examples

```
$x=5;  
$word="Hello World!";
```

Resource Links

https://www.w3schools.com/php/php_variables.asp

<https://www.tutorialrepublic.com/php-tutorial/php-variables.php>

Lists, Arrays, & Maps

Format

```
array(<value1>, <value2>, <value3>);
```

```
list(<value1>, <value2>, <value3>);
```

```
array(<key1>=><value1>, <key2>=><value2>, <key3>=><value3>);
```

Examples

```
array('Apple', 'Bottom', 'Jeans');
```

```
list(1, 2, 3);
```

```
array("Apple"=>1, "Bottom"=>2, "Jeans"=>3);
```

Resource Links

https://www.w3schools.com/php/func_array_list.asp

<https://www.php.net/manual/en/function.list.php>

https://www.w3schools.com/php/php_arrays_associative.asp

Functions

Format

```
function <function name>(<parameter1>, <parameter2>) {  
    <your code here>;  
    return <value>;  
}
```

Examples

```
function print_int($num) {  
    echo $num;  
    return $num;  
}
```

Resource Links

https://www.w3schools.com/php/php_functions.asp

<https://www.php.net/manual/en/functions.user-defined.php>

Printing

Format

```
echo <variable/value>;
```

Examples

```
$t = 10;  
  
echo 5;  
echo $t;  
echo "Hello World!";
```

Resource Links

https://www.w3schools.com/php/php_echo_print.asp

<https://www.geeksforgeeks.org/php-echo-print/>

Commenting

Format - Single Line

```
//<comment>  
#<comment>
```

Format - Multiple Lines

```
/*<comments>*/
```

Examples

```
// Hey!  
# Hello!
```

```
/* Beautiful  
morning,  
isn't It? */
```

Resource Links

https://www.w3schools.com/php/php_comments.asp

<https://blog.hubspot.com/website/php-comments#:~:text=Single%2Dline%20PHP%20comments%20are,the%20%2F%2F%20will%20be%20ignored.>

Importing Namespaces

Format

```
use <import>
```

Examples

```
// Importing a class called "Request"  
use Request;
```

Resource Links

<https://www.php.net/manual/en/language.namespaces.importing.php>

Importing External Files

Format

```
require '<file name>';  
include '<file name>';
```

Examples

```
require 'helperfunctions.php';  
include 'helprfunctions.php';
```

Resource Links

https://www.w3schools.com/php/php_includes.asp

<https://www.geeksforgeeks.org/difference-between-require-and-include-in-php/>

If..Else Statements

Format

```
if (<condition>) {  
    <do stuff>;  
} elseif (<condition>) {  
    <do stuff>;  
} else {
```

```
<do stuff>;  
}
```

Example

```
$t = 5;  
  
if ($t == 5) {  
    echo $t;  
} elseif ($t == 6) {  
    echo $t + 1;  
} else {  
    echo $t + 2;  
}
```

Resource Links

https://www.w3schools.com/php/php_if_else.asp

<https://www.php.net/manual/en/control-structures.elseif.php>

For Loops

Format

```
for (<initial counter>; <test counter>; <increment counter>) {  
    <your code here>;  
}
```

Example

```
for ($i = 0; $i < 10; $i++) {  
    echo $i;  
}
```

Resource Links

https://www.w3schools.com/php/php_looping_for.asp

<https://www.php.net/manual/en/control-structures.for.php>

While Loops

Format

```
while (<condition>) {  
    <your code here>;  
}
```

Example

```
$t = 0;  
while ($t < 5) {  
    $t++;  
}
```

Resource Links

https://www.w3schools.com/php/php_looping_while.asp

<https://www.php.net/manual/en/control-structures.while.php>

Type Conversion Functions

Formats

```
strval(<value>;  
intval(<value>;  
boolval(<value>;  
floatval(<value>;
```

Examples

```
// Converts the integer 1 to string '1'  
strval(1);
```

```
// Converts the string '123' to int 123  
intval('123');
```

```
// Converts the int 0 to boolean false  
boolval(0);
```

```
// Converts the int 1 to float 1.0
floatval(1);
```

Resource Links

https://www.w3schools.com/php/func_var_strval.asp

https://www.w3schools.com/php/func_var_intval.asp

https://www.w3schools.com/php/func_var_boolval.asp

https://www.w3schools.com/php/func_var_floatval.asp

Type Checker Functions

Format

```
gettype(<value>);
is_array(<value>);
is_bool(<value>);
is_double(<value>);
is_float(<value>);
is_int(<value>);
is_string(<value>);
```

Examples

```
// Equals false
is_string(1);
```

```
// Equals true
is_int(1000)
```

Resource Link

https://www.w3schools.com/php/php_ref_variable_handling.asp