Web Programming #7 PHP - Loops



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Why Use Loops



```
<?php
   x = 1;
   while(x <= 5) {
        echo "The number is: $x <br>";
       $x++;
```



WHILE ... - Exercise

We want to examine every number from 1 to 100 and print the number followed by " is divisible by 33\n" if the number is divisible by 33.

Begin by setting up a loop that counts from 1 to 100.

e.g. Output :

```
33 is divisible by 33
66 is divisible by 33
99 is divisible by 33
```



DO ... WHILE ...

```
<?php
    $x = 1;
    do {
         echo "The number is: $x\n";
         $x++;
    } while ($x <= 5);</pre>
?>
```

```
<?php
    for (\$x = 0; \$x <= 10; \$x++) {
        echo "The number is: $x\n";
```

The foreach loop is used for iterating over an array.

```
<?php
   // Ordered Array
    $counting_array = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10];
    foreach ($counting array as $count) {
      echo "The count is: " . $count . "\n";
   // Associative Array
    $details_array = ["color" => "blue", "shape" => "square"];
    foreach ($details array as $key => $value) {
        echo "The $key is: " . $value . "\n";
```



BREAK & CONTINUE

The **break** keyword can be used to terminate any of the loop types early

```
<?php
    $count = 1;
    while ($count < 11)
      echo "The count is: " . $count . "\n";
      if ($count === 5) {
        break;
      $count += 1;
```



BREAK & CONTINUE

The **continue** keyword is similar to break except it only ends the current iteration early, not the entire loop.

```
<?php
    $count = 1;
    while ($count < 11)
      if ($count === 5) {
        $count += 1;
        continue;
      echo "The count is: " . $count . "\n";
      $count += 1;
```



LOOPS IN HTML

Embedding PHP code in HTML

```
<l
 <?php
    for (\$i = \emptyset; \$i < 2; \$i++) {
3>
 Duck
 <?php
 3>
 Goose
```



Shorthand LOOPS IN HTML

```
<l
   <?php
      for (\$i = 0; \$i < 2; \$i++):
   ?>
   Duck
   <?php
       endfor;
   ?>
   Goose
10
```



Shorthand LOOPS IN HTML

```
<l
   <?php
      $i = 0;
      while ($i < 2):
   3>
   Duck
   <?php
      $i++;
      endwhile;
  3>
11 Goose
12
```



Shorthand LOOPS IN HTML

```
<l
    <?php
       \frac{1}{3} array = [0, 1];
       foreach ($array as $i):
    3>
    Duck
    <?php
       endforeach;
    ?>
10 Goose
11
```



Code Block Considerations



Fixes code below using echo shorthand

```
<h1>Shoe Shop</h1>
<?php
   $footwear = [
       "sandals" => 4,
       "sneakers" => 7,
       "boots" => 3
    ];
3>
Our footwear:
<?php
   foreach ($footwear as $type => $brands):
3>
We sell $brands brands of $type
<?php
   endforeach;
3>
```



The **index.php** is a PHP file that is the entry point of any website or application.

http://localhost/goodapp == http://localhost/goodapp/index.php