

# 11 PHP Looping - While Loops

Loops execute a block of code a specified number of times, or while a specified condition is true.

# 11.1. PHP Loops

Often when you write code, you want the same block of code to run over and over again in a row. Instead of adding several almost equal lines in a script we can use loops to perform a task like this.

In PHP, we have the following looping statements:

- while loops through a block of code while a specified condition is true
- **do...while** loops through a block of code once, and then repeats the loop as long as a specified condition is true
- for loops through a block of code a specified number of times
- foreach loops through a block of code for each element in an array

# 11.2. The while Loop

The while loop executes a block of code while a condition is true.

## **Syntax**

# **Example 1**

The example below first sets a variable i to 1 (i=1).

Then, the while loop will continue to run as long as i is less than, or equal to 5. i will increase by 1 each time the loop runs:



```
while($i<=5)
    {
    echo "The number is " . $i . "<br>";
    $i++;
    }
?>
</body>
</html>
```

#### Output:

```
The number is 1
The number is 2
The number is 3
The number is 4
The number is 5
```

### 11.3. The do...while Statement

The do...while statement will always execute the block of code once, it will then check the condition, and repeat the loop while the condition is true.

# **Syntax**

```
do
    {
    code to be executed;
    }
while (condition);
```

## **Example 2**

The example below first sets a variable i to 1 (i=1).

Then, it starts the do...while loop. The loop will increment the variable i with 1, and then write some output. Then the condition is checked (is i less than, or equal to 5), and the loop will continue to run as long as i is less than, or equal to 5:

```
<html>
<body>
```



#### Output:

```
The number is 2
The number is 3
The number is 4
The number is 5
The number is 6
```

The for loop and the for-each loop will be explained in the next chapter.