

12. PHP Looping - For Loops

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

12.1. The for Loop

The for loop is used when you know in advance how many times the script should run.

Syntax

```
for (init; condition; increment)
    {
    code to be executed;
    }
```

Parameters:

- *init*: Mostly used to set a counter (but can be any code to be executed once at the beginning of the loop)
- *condition*: Evaluated for each loop iteration. If it evaluates to TRUE, the loop continues. If it evaluates to FALSE, the loop ends.
- *increment*: Mostly used to increment a counter (but can be any code to be executed at the end of the iteration)

Note: The *init* and *increment* parameters above can be empty or have multiple expressions (separated by commas).

Example 1

The example below defines a loop that starts with i=1. The loop will continue to run as long as the variable i is less than, or equal to 5. The variable i will increase by 1 each time the loop runs:



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

Output:

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

12.2. The foreach Loop

The foreach loop is used to loop through arrays.

Syntax

```
foreach ($array as $value)
    {
    code to be executed;
    }
```

For every loop iteration, the value of the current array element is assigned to \$value (and the array pointer is moved by one) - so on the next loop iteration, you'll be looking at the next array value.

Example 2

The following example demonstrates a loop that will print the values of the given array:



| ?> | | |
|----|--|--|
| | | |

Output:

one two three