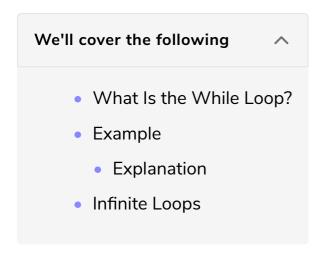
while Loops

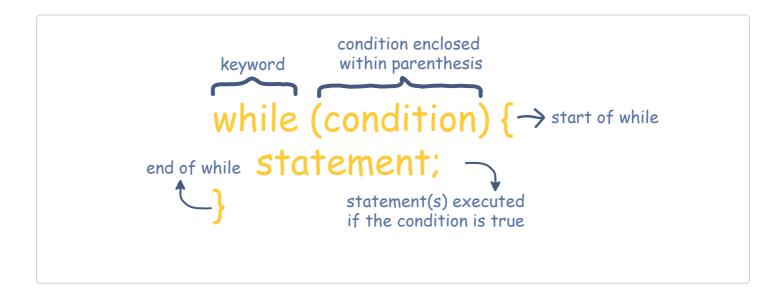
This lesson introduces the while loops in PHP. It uses coding examples to show their implementation and explains how they work.



What Is the While Loop?

The while *loop* is really the only necessary repetition construct. The for loop, coming up, can be duplicated using a while loop, and with more control.

So basically, the while loop consists of a condition and while that condition is true, a set of statements is executed repeatedly. The syntax is as follows:



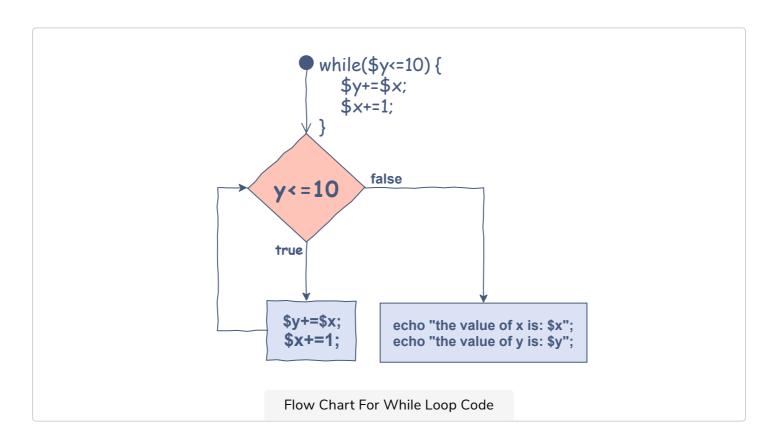
Again, the **curly braces** surrounding the *body* of the while *loop* indicate that *multiple* statements can be executed as part of this *loop*.

Example ‡

Here's a look at the while loop code:

Explanation

Below is an *illustration* of the code above to help you better understand the logic.



Infinite Loops

If the while *loop* code looked like this instead:

There would be a problem

There would be a problem.

According to what is written, even though the *second* line after the while was *incremented*, only the *first* line corresponds to the while *loop*. This is a huge problem because the variable involved in the condition (x) does **not** change, so it will always evaluate to *true*, making this an **infinite** loop. This could be alleviated by containing all statements intended to be a part of the loop body in {}. You will learn more about Infinite loops later in the chapter.

In the next lesson, we will discuss a slight variation of the while loop – the do... while loop.