

The while loop in JavaScript

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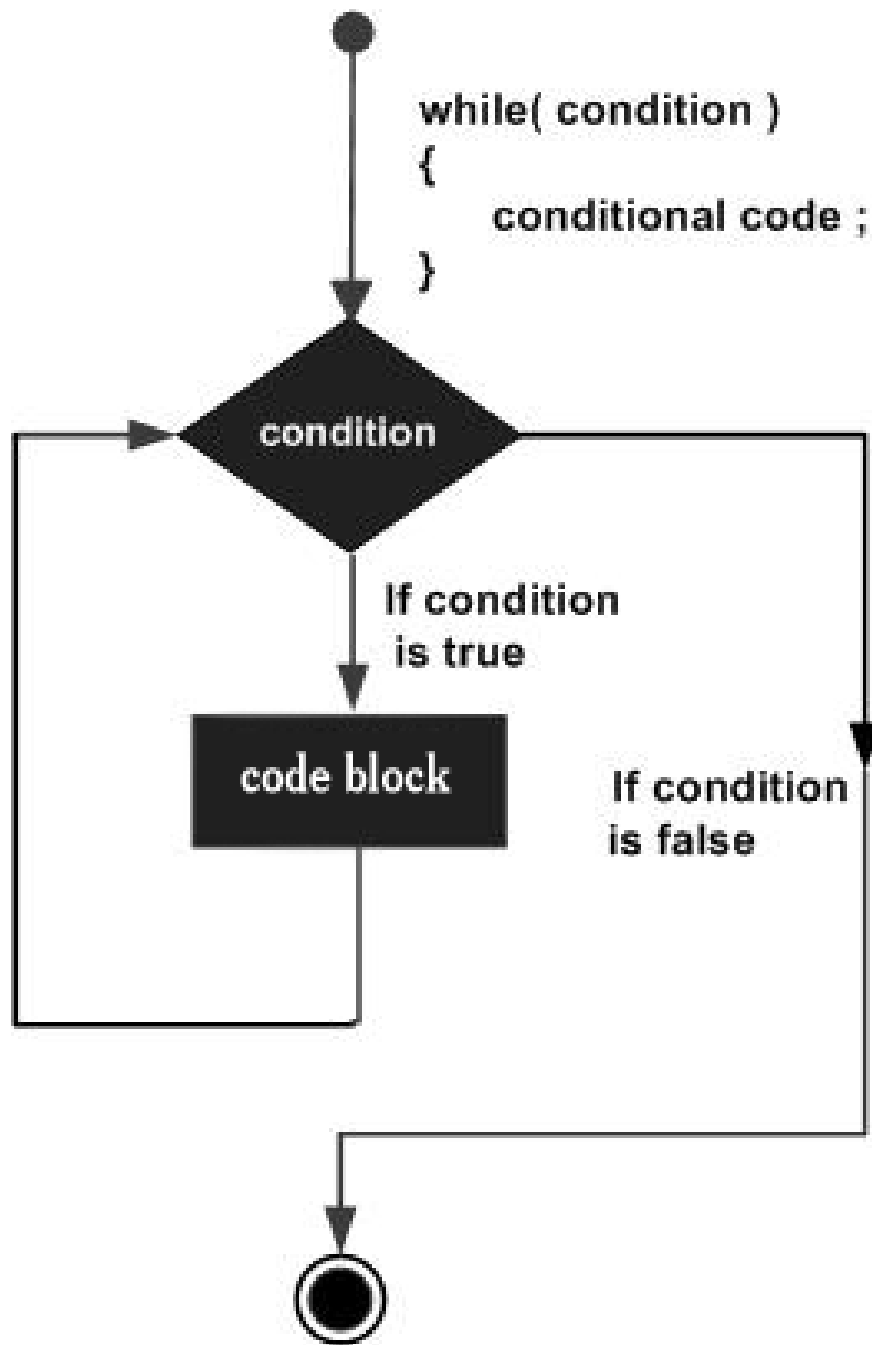
JavaScript supports all the necessary loops to reduce the pressure of the program:

While loop

The most basic loop in JavaScript is the while loop that will be discussed in this chapter. The purpose of the **while** loop is to execute a command or repeated code block as long as the **expression** - the **expression** is **true** . Once the expression becomes **false** , the loop ends.

Implementation diagram

The diagram showing **the while loop** implementation process is as follows:



Syntax

The following is **the while loop** syntax in JavaScript:

```
while ( expression ){ Statement ( s ) to be executed if expression is true
```

For example

You try the following example to execute a while loop.

Set the variable to different value and then try.

Result:

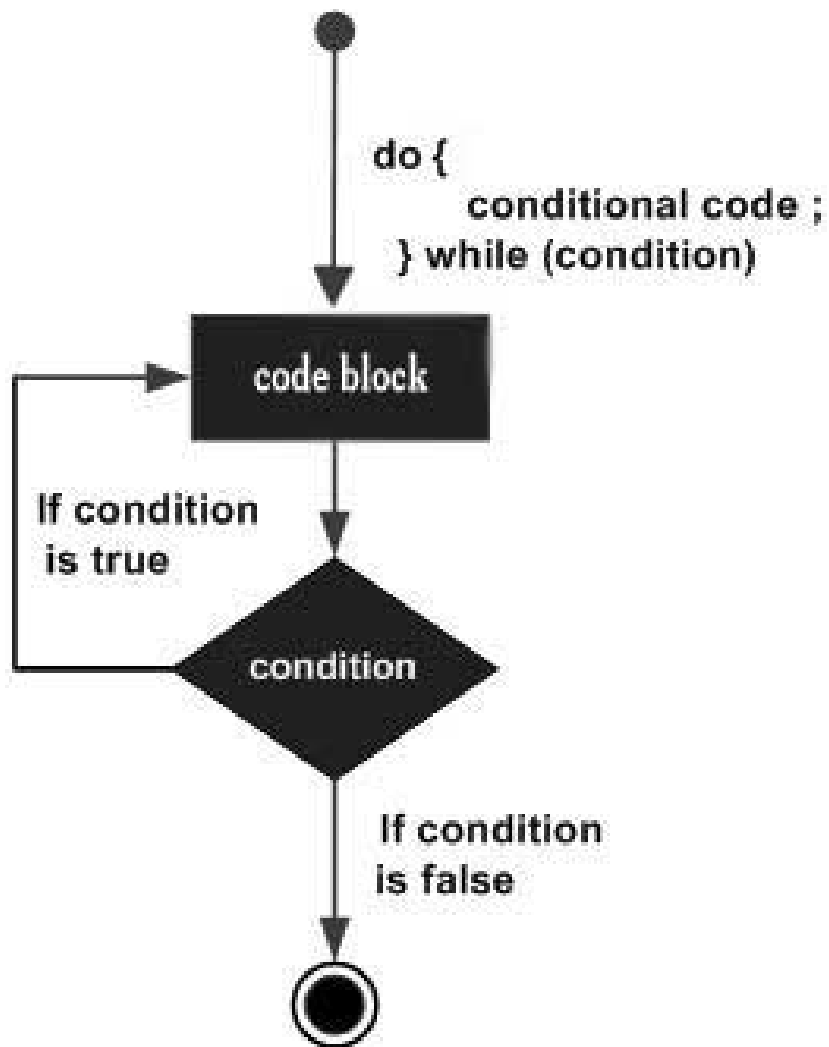
```
Starting Loop
Current Count: 0
Current Count: 1
Current Count: 2
Current Count: 3
Current Count: 4
Current Count: 5
Current Count: 6
Current Count: 7
Current Count: 8
Current Count: 9
Loop stopped!
??t bi?n vào giá tr? khác nhau và th? th? .
```

Do . while loop

The **do . while** loop is similar to **the while loop** except that the condition check occurs at the end of the loop. This means that the loop will always be executed at least once, even if the condition is **false** .

Implementation diagram

Here is the **do-while** loop implementation diagram:



Syntax

Do . while loop syntax in JavaScript is as follows:

```
do { Statement ( s ) to be executed ; } while ( expression );
```

Note - Don't forget the semicolon used at the end of the do . while loop.

For example

Try the following example to learn how to execute a **do . while loop** in JavaScript.

Set the variable to different value and then try.

Result:

```
Starting Loop  
Current Count: 0  
Current Count: 1  
Current Count: 2
```

```
Current Count: 3
Current Count: 4
Loop Stopped!
??t bi?n vào giá tr? khác nhau và th? th? .
```

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