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Thread: [C# Loops \[Beginner Level Tutorial\]](#)

Pulser - October 20, 2010, 8:27 pm

C# Loops

What Is It:

A loop basically "loops" through a block of code until a condition is met or a preset number is reached. A loop can be used to constantly check a value or do something over and over!

Getting started

In For Loops:

If you want something to execute 10 times you would use the number "10", however, the number will only "technically" reach 9. If you want a code to execute 9 times, you will use 10 - 1.

To begin a for loop, insert the following into a new button:

```
Code for (int i = 0; i < 10; i++)
```

```
{  
    MessageBox.Show("This is a loop" + " " + "The Number of times executed is:" + " " + i);  
}
```

The first line begins the for loop. Inside of the brackets is the condition. It says as long as the integer "i" is less than 10 it will "i++" (says to add one each time you round the loop.)

The second line, inside of the curly brackets is the code that is being looped. So, in this case it is going to pop up a messagebox as well as the number of times the code has been looped through!

Spoiler ([Click to View](#))

Do While Loop:

The Do While Loop simply executes a block of code while a condition is true.

Getting Started:

To begin a While Loop, create a progress bar, as well as a button. Insert the following:

```
Code while (progressBar1.Value < 100)
```

```
{  
    progressBar1.Value += 1;  
}
```

The first line says that the code will execute as long as the progress bar is under 100 it will loop. The second line will add 1 to the current value of the progressBar.

In order to check and see if the progressBar is at the maximum value we must use an If statement. (See other tut for more info)

```
Code if (progressBar1.Value == progressBar1.Maximum)
```

```

{
    MessageBox.Show("100");
}
else
{
    // Do Nothing
}

```

A while loop can be used to check a condition over and over!

Spoiler [\(Click to View\)](#)

Code:

For Loop:

```

Code {
    for (int i = 0; i < 10; i++)
    {
        MessageBox.Show("This is a loop" + " " + "The Number of times executed is:" + " " + i);
    }
}

```

While Loop:

```

Code while (progressBar1.Value < 100)
{
    progressBar1.Value += 1;
}

if (progressBar1.Value == progressBar1.Maximum)
{
    MessageBox.Show("100");
}
else
{
}

```

tflo - October 21, 2010, 12:40 am

Try to avoid using the terms name in your definitions, in "for" loops you declare the starting value so it is not always 0, you should go more into conditions and incrementing. Also you left out the "break" statement.

Zer0Fact0r - October 21, 2010, 1:32 am

Quote:For starters, every loop begins at 0.

Nope.

```
for (; ;)
```

jiofsd

Pulser - October 21, 2010, 8:32 am

(Oct 21, 2010 12:40 AM)Vanquish Wrote: [\[CITE\]](#) Try to avoid using the terms name in your definitions, in "for" loops you declare the starting value so it is not always 0, you should go more into conditions and incrementing. Also you left out the "break" statement.

I respect your constructive criticism, however, these tutorials are aimed at BEGINNER level. I do not want to lay too much on someones plate right away.

Nonmod - October 21, 2010, 8:59 am

You could add an `foreach` loop to tutorial to attract those lazy programmers.

Pulser - October 21, 2010, 9:14 am

(Oct 21, 2010 08:59 AM)Nonmod Wrote: [\[CITE\]](#) You could add an `foreach` loop to tutorial to attract those lazy programmers.

Sure, I will write a more advanced tutorial on loops in the future! Thanks for the feedback.

motormal - December 15, 2011, 2:43 pm

I've written a tutorial on this topic with plenty of examples and a step-by-step explanation of what happens in a "for" loop as it executes. I also talk about some alternatives to looping in general (like LINQ). The article is here:

[C# for](#)

iVision - December 16, 2011, 6:14 am

Well its good tutorial but just a tip:

you can put an ' ' (space in a string) IE:

Code for (int i = 0; i < 10; i++)

```
{
    MessageBox.Show("This is a loop" + " " + "The Number of times executed is:" + " " + i);
}(btw did you miss a . between loop and The?)
```

But it could be:

Code for (int i = 0; i < 10; i++)

```
{
    MessageBox.Show("This is a loop. The Number of times executed is: " + i);
}But the tutorial is very usefull for newbies :)
```