



BEGINNER PROGRAMMING LESSON

EV3 Classroom: Loops (Repeat Blocks)

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EV3 CLASSROOM LESSON
BY EV3LESSONS.COM

LESSON OBJECTIVES

1. Learn how to repeat an action
2. Learn how to use Loop Blocks

REPEATING AN ACTION

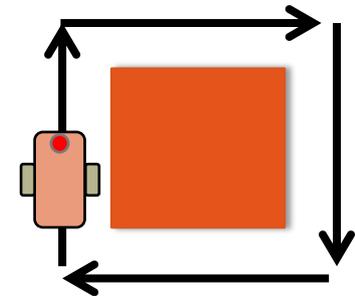
Let's say we want the robot to repeat an action over and over again.

Would you just copy the block multiple times?

- Sure, that could work!

What if I want to repeat that block forever?

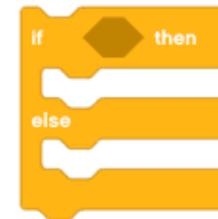
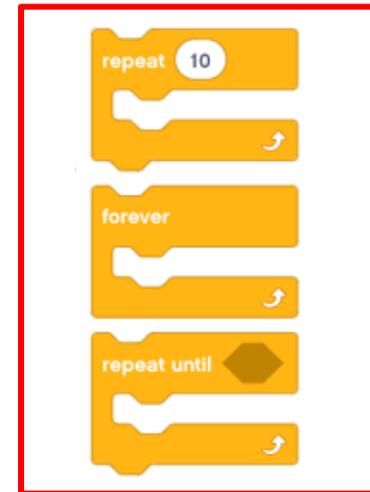
- Now what?



LOOPS

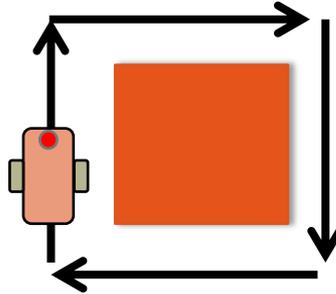
- **Loops make repeating a task multiple times easy**
- **The added benefit is that a loop can end whenever you want (a specific number of times, run forever, a specific condition, etc.)**
- **Loop blocks can be found in the Control tab**

Control

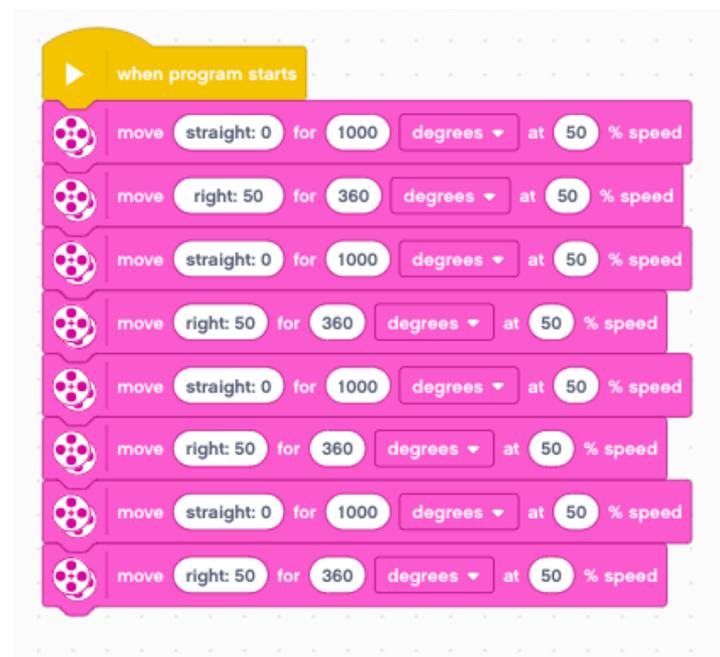


LOOP CHALLENGE

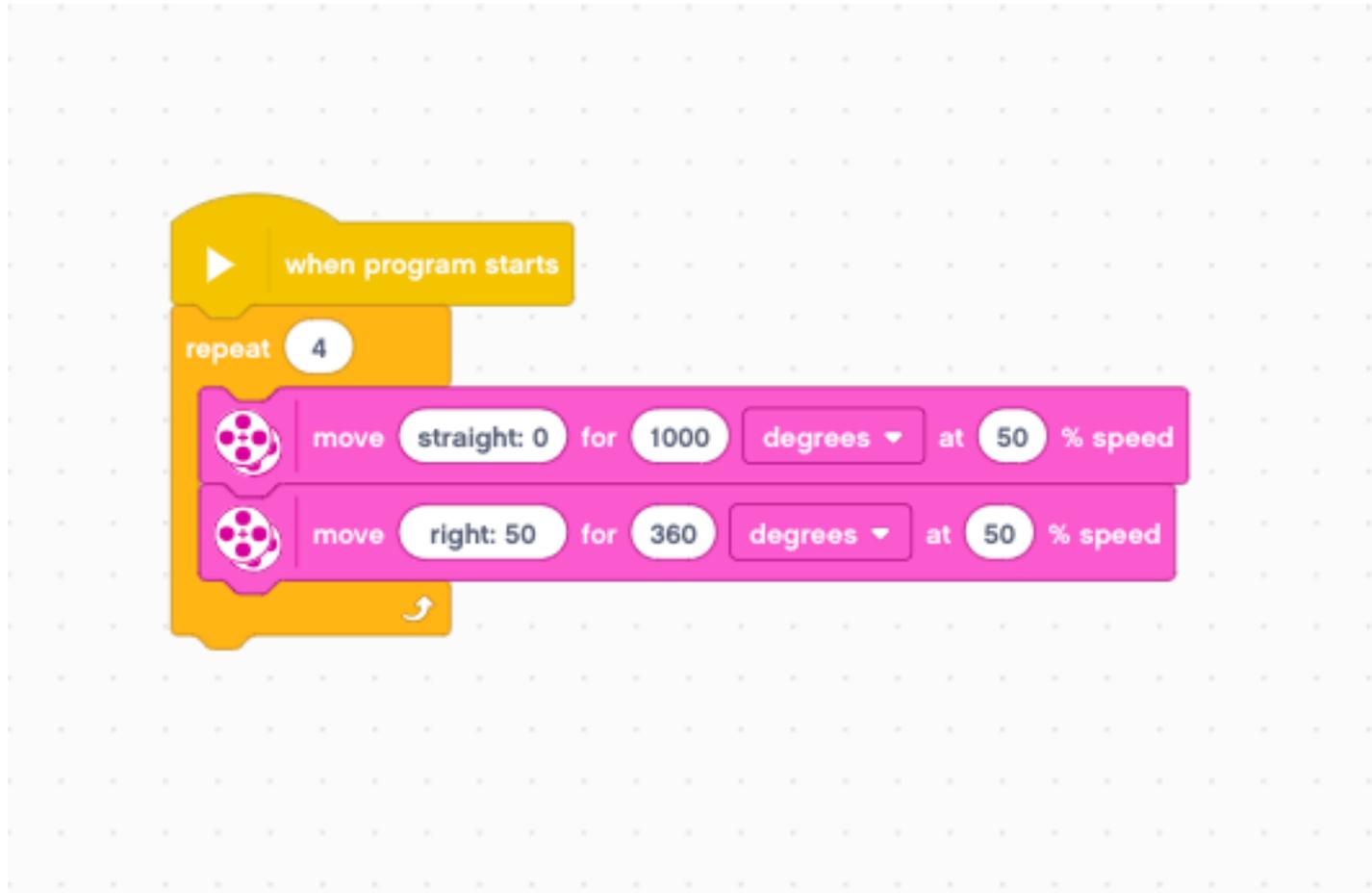
Challenge: Write a program to go around a box once.



The inefficient way is to code it like this:



USE A LOOP TO IMPROVE THE CODE



CREDITS

- This tutorial was created by Sanjay Seshan and Arvind Seshan
- More lessons are available at www.ev3lessons.com



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