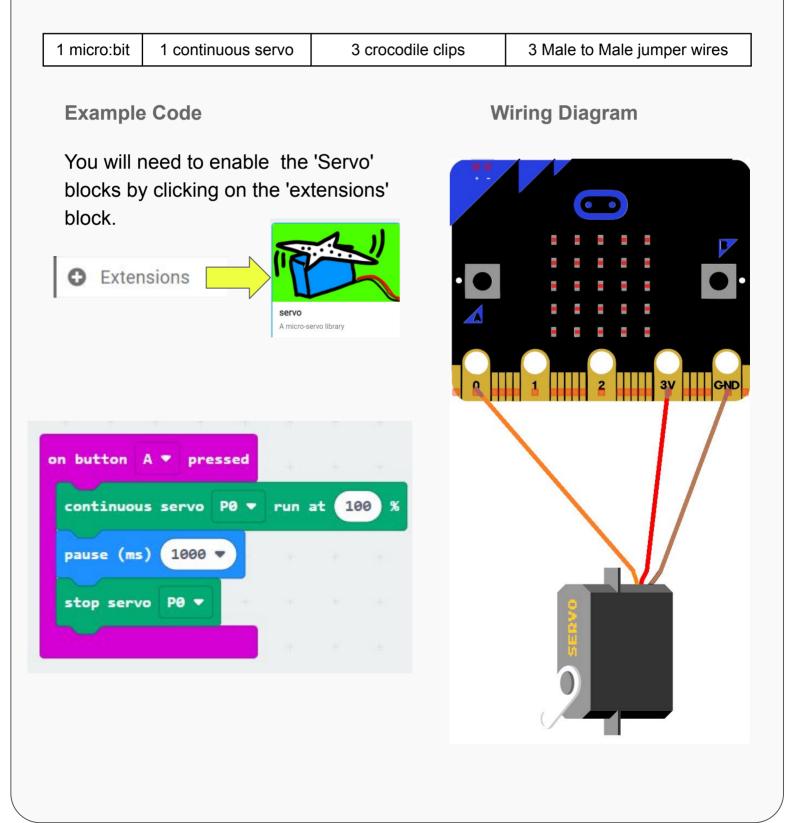


Introduction

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In this experiment we will be investigating how to control a continuous servo using the Microbit.

Components



Coding Challenges

Challenge 1 - Random Spinner

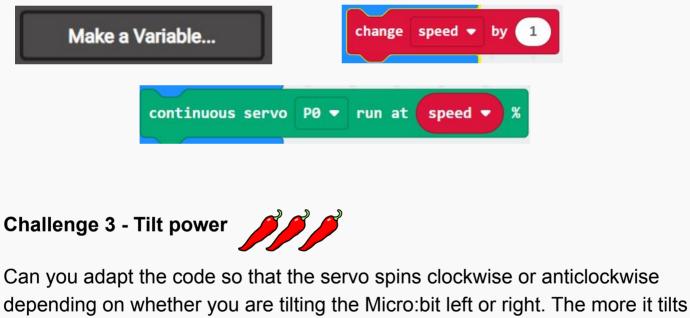
Can you adapt the code so that when you shake the Micro:bit it spins in a random direction at a random speed for 1 second?

Challenge 2 - Speed changer



Can you adapt the code so that when you press the A button the servo speeds up, when you press the B button the servo slows down and when you press A+B the servo stops?

Hint: You'll want to create a variable called 'speed' and get your program to change the variable when the buttons are pressed



the faster it should go?



Hint: the servo has a power setting between -100 and 100 but the accelerometer has values between -1024 and 1024. How can you convert these values?