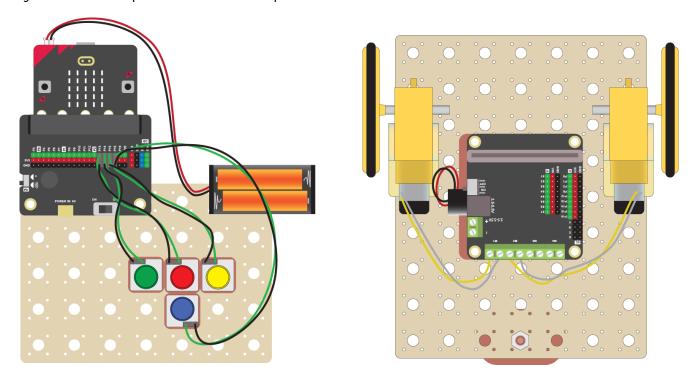
Build a Remote Control Robot

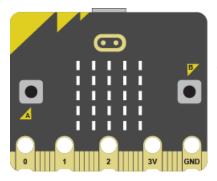
Project 1.04

In this workshop you will make a remote controller which can be used to control the robot you built in a previous workshop.



For the remote control you will need another Microbit. So you will have two microbits, one in the controller and one in the robot. We will use the radio feature of the Microbit to send messages from the controller to the robot:

Controller Microbit



Messages:

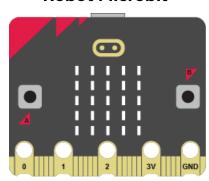
F for Forwards

L for Left

R for Right

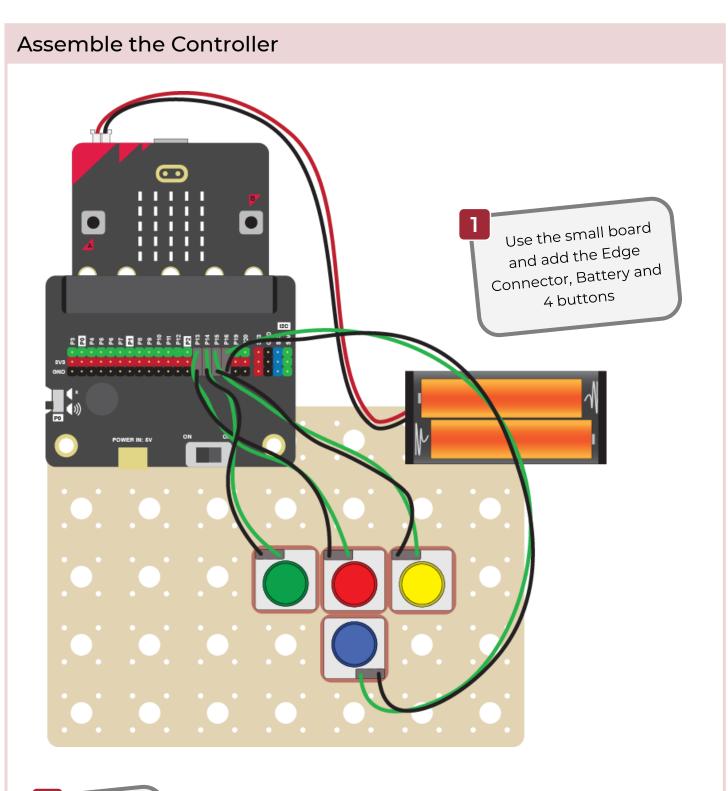
B for Backwards

Robot Microbit



What to do

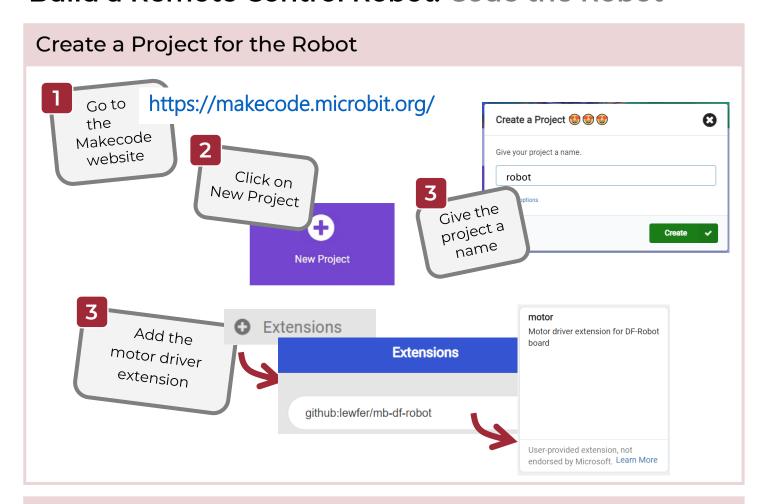
- If you haven't already done so, build the robot by referring to the previous worksheet (just build it, don't code it).
- Then follow this worksheet to remotely control the forward movement of your robot.
- Finally, attempt the coding challenge to get the left, right and backwards movements of your robot working.



Wire up the buttons as follows using GS wires

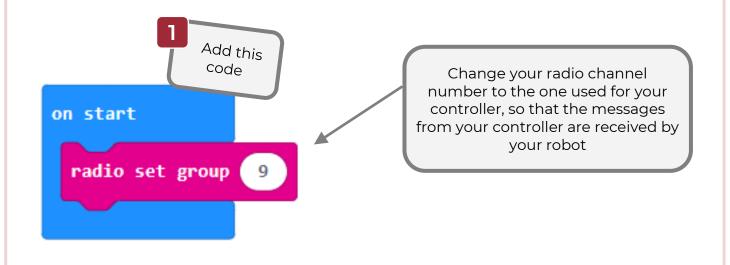
Component	Microbit Connections	Purpose
Red button	P13	Forwards
Green button	P14	Left
Yellow button	P15	Right
Blue button	P16	Backwards

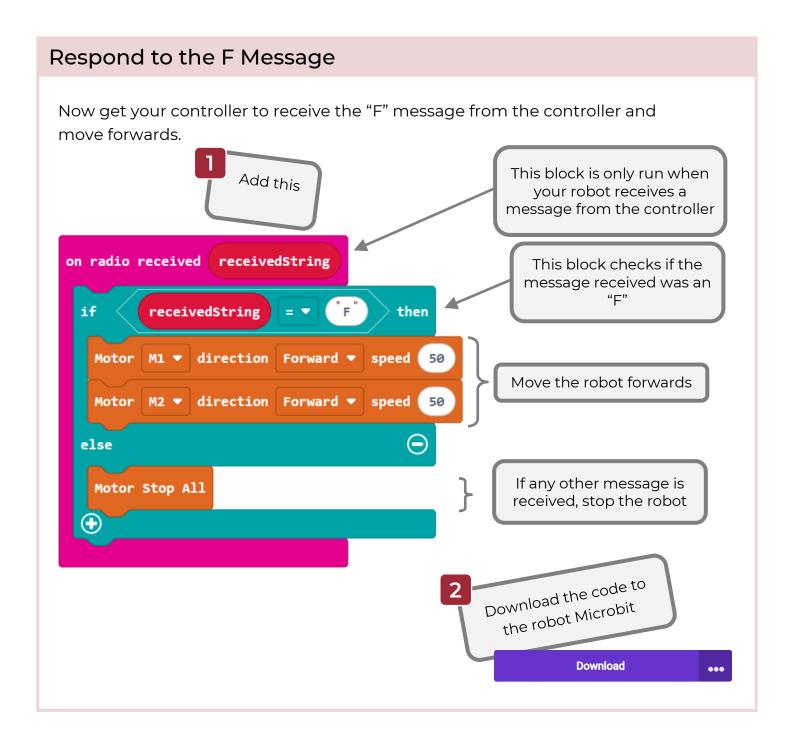
Build a Remote Control Robot: Code the Robot





Set up the radio channel (so your robot can receive messages to your controller).





Your challenge!

The code you have on your robot allows you to only control the forward movement of the robot. That's not very useful!

Can you get other movements working: left, right and backwards?

Hint: The controller will send different messages, such as "L", "R" and "B" for left, right and backwards. The robot must then respond with the correct movement.

Build a Remote Control Robot: Solution

