

Extensions to your Bot



In this section we will give you suggestions about how you can improve your Bot.

Using the Bot as it is you could change the code. Here are some suggestions:

- Can you change how long the Bot waves its arms for?
- Can you use the "play sound" block so the Bot can join in the noise?
- Experiment with the other blocks to make the Bot do other things.

1

Make your Bot a TickleBot!



- You can easily convert your Bot into a TickleBot!
- The Bot will react when you touch or tickle it.
- The extra items you will need are:
 - Tin foil
 - 2 x crocodile cable with a clip at both ends
 - Glue/tape

2

Adding foil



- Cut two pieces of tin foil the same size as the legs. You can use the template again to help.
- Tape or glue the foil to the underside of each of the legs.



3

Clips



- Using the 2 crocodile cables, attach one end of each cable to the body end of each leg.
- Make sure the clips are touching the tin foil.

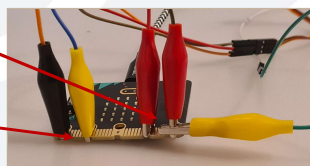


4

Attaching to the micro:bit



- Connect one of the cables to the ground – this already has a clip, so attach to the current clip.
- Connect the other one to the pin 1

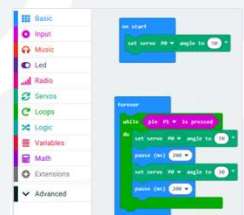


5

Coding the micro:bit



- Return to: makecode.microbit.org
- You can edit your previous code to be the same as the code here.
 - Keep the servo code by dragging it out of the repeat loop
 - Delete the parts you don't need by dragging them to the menu.
 - Add in the forever loop from the Basic menu.
 - Add in the while loop from the Loops menu
 - Add in the pin block from the Input menu



6

Test your TickleBot



- Connect the micro:bit's micro USB cable into the computer you re writing your code on.
- Click on the Download button.
- Follow the on-screen instructions to pair your micro:bit with the computer.
- This should end with the code being downloaded onto your micro:bit.
- Then tickle the back of both of your TickleBot's legs and it will cheer!

