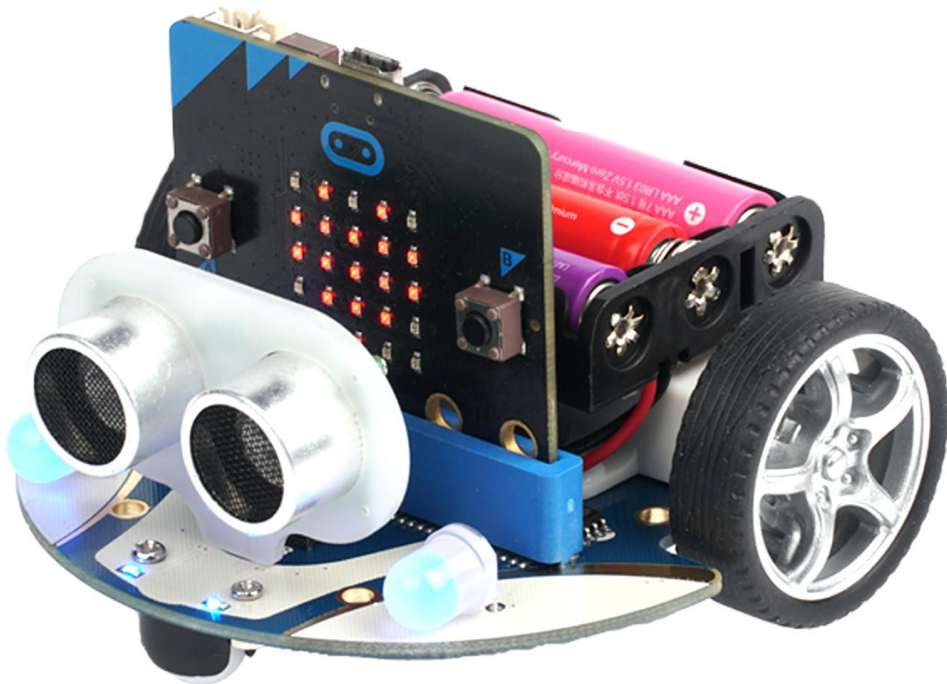




Cutebot Intro

Time Estimate: 1 hour

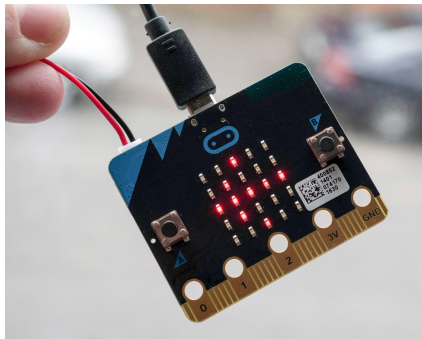


Tags: Coding & Engineering

Part 1: Materials & Tools

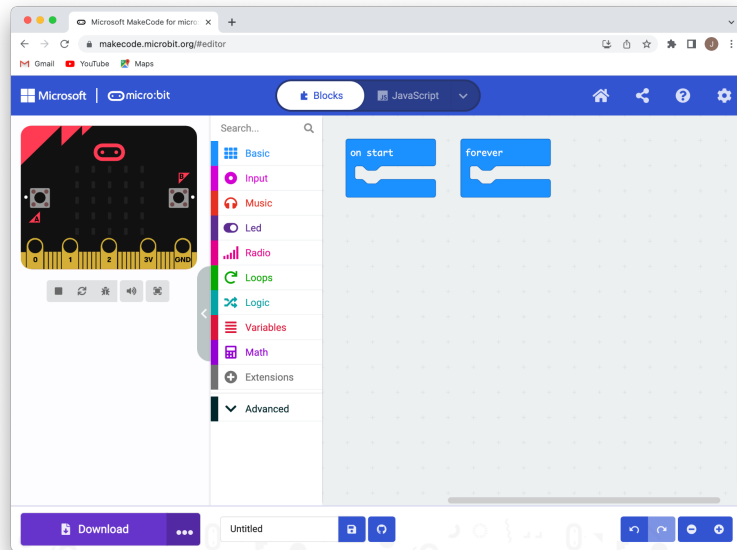
To make your Cutebot, you will need the following:

1. Computer
2. Micro:bit (with battery pack)
3. USB Cable
4. Internet Connection
5. Cutebot



Part 2: Open the Coding Platform

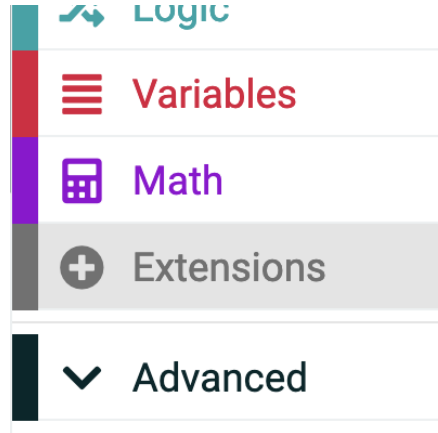
1. First, Open your computer and go to your internet browser.
2. Go to the webpage: makecode.microbit.org/#editor . You should see a page that looks like this:



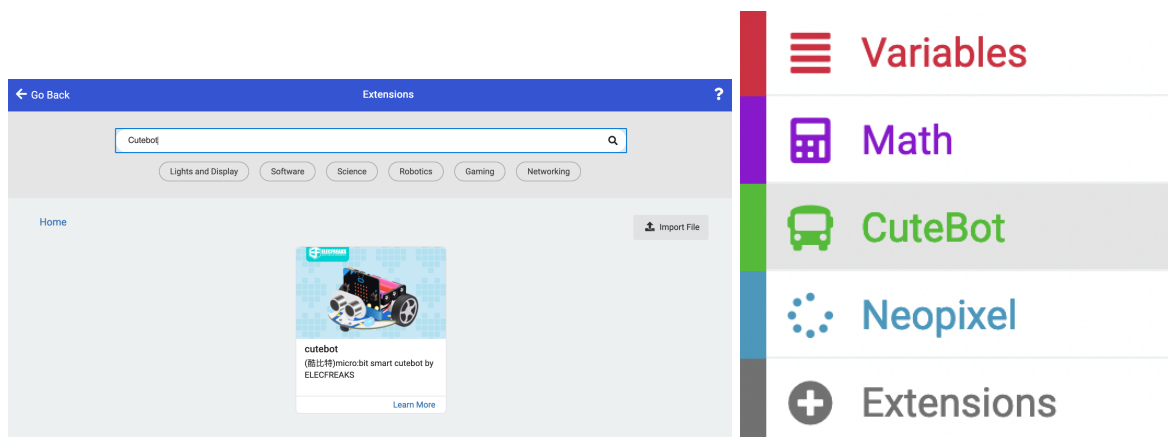
3. Rename your file to “Cutebot Intro”. You can do that by going to the download/save section at the bottom and change the text in the textbox.

Part 3: Add the Cutebot Package

1. Click on “Extensions” in the list of coding blocks.

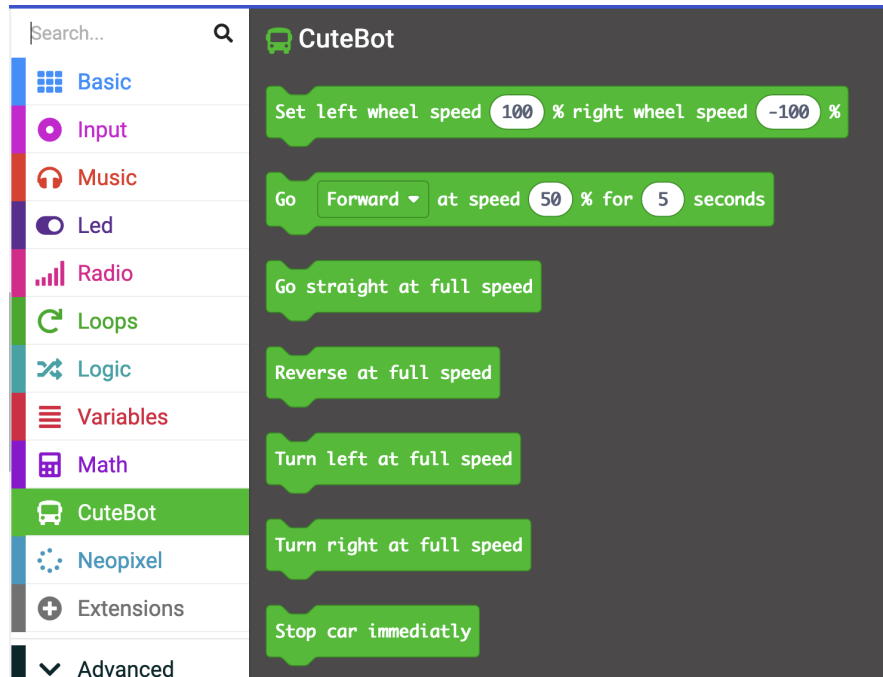


2. Search “Cutebot” in the search bar and click on the result with the image of the Cutebot. This should take you back to the code editor with the Cutebot package added.

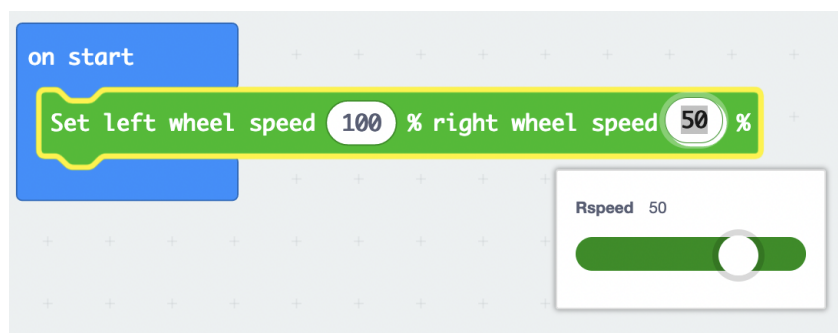


Part 4: What do the Blocks do?

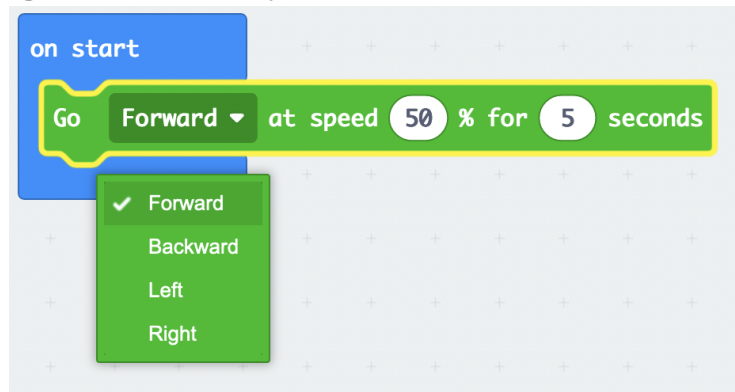
Clicking on the Cutebot package will show you a collection of blocks you can use to tell your car to move in different ways.



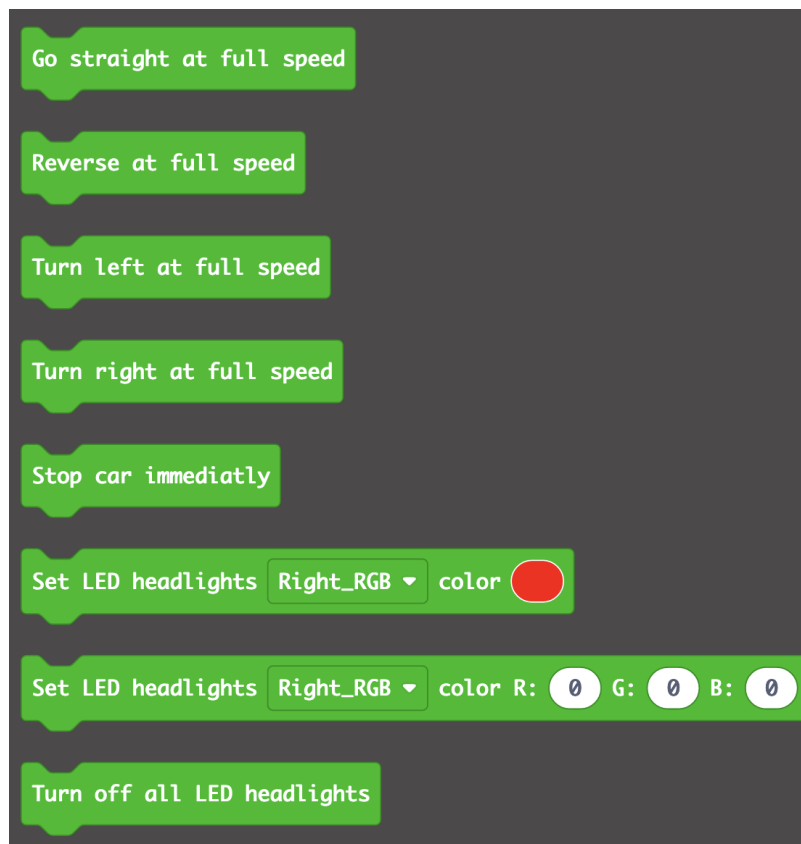
1. The first block allows you to set the speed of both wheels on the Cutebot independently. You might notice that the slider allows you to set the speed to a negative number, what do you think the wheel will do if you set it to a positive number vs. a negative number?



2. The next block makes the cutebot go forward, backward, left, or right at a set speed for a set number of seconds.



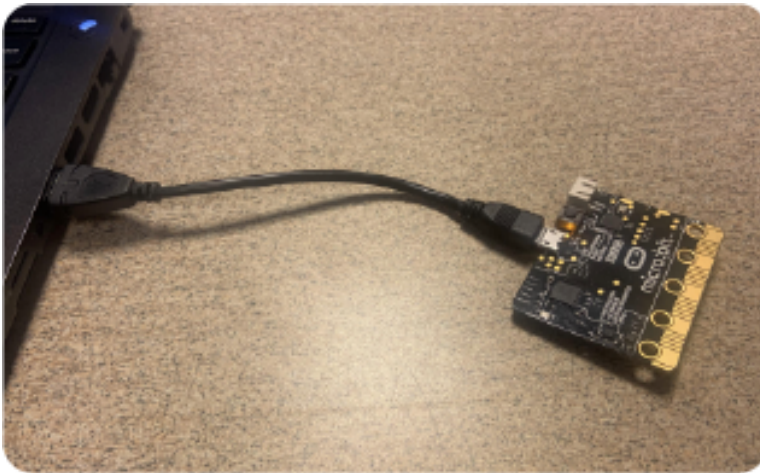
3. You can probably tell what this section of blocks do just by reading what they say. Try experimenting with all of them and see if your cutebot does anything you don't expect. The next step will show you how to give your instructions to your Cutebot.



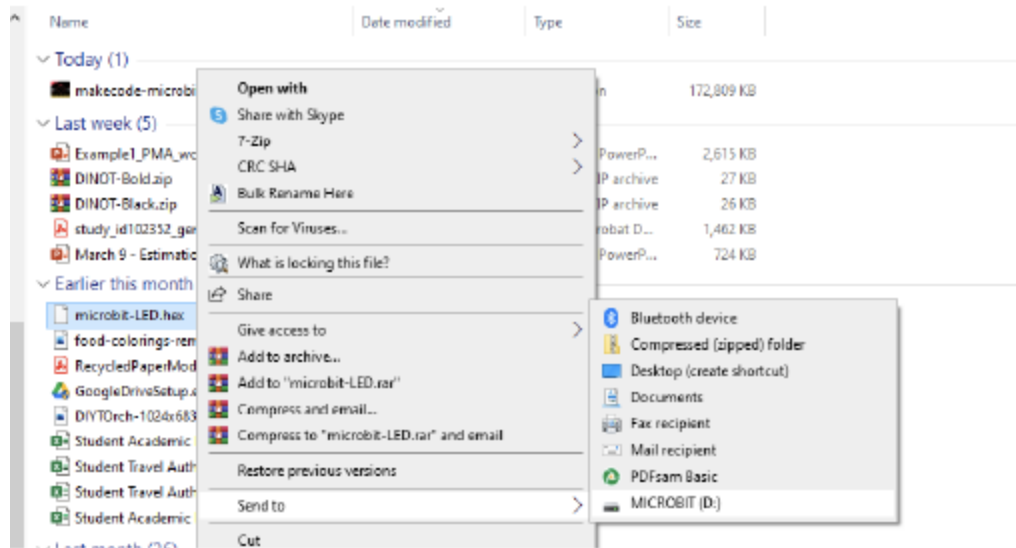
Part 5: Test It!

To make the code come to life...

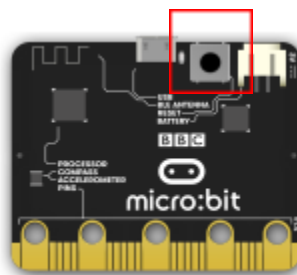
1. Connect your micro:bit to your computer using the USB Cable.



2. Click on the **Download** button.
3. Once you have had a successful download, this will pop-up. At the bottom left corner you should also see your file "Cutebot intro.hex "
4. Open up your windows folder and go to the downloads folder.
5. Look for your file "Cutebot intro.hex " and right click on it. Go to "**Send to >**" and click on "**Microbit**".



6. Once the file is sent, eject and unplug your Micro:bit and insert it into the long slot in the Cutebot car.
7. Click the reset button on your micro:bit once you have sent the file. Your micro:bit should light up with what you have programmed!



* Sometimes it might not work as it should. Go back and debug your code! Try re-downloading it!

If you are happy with your code, let's move on and keep exploring!