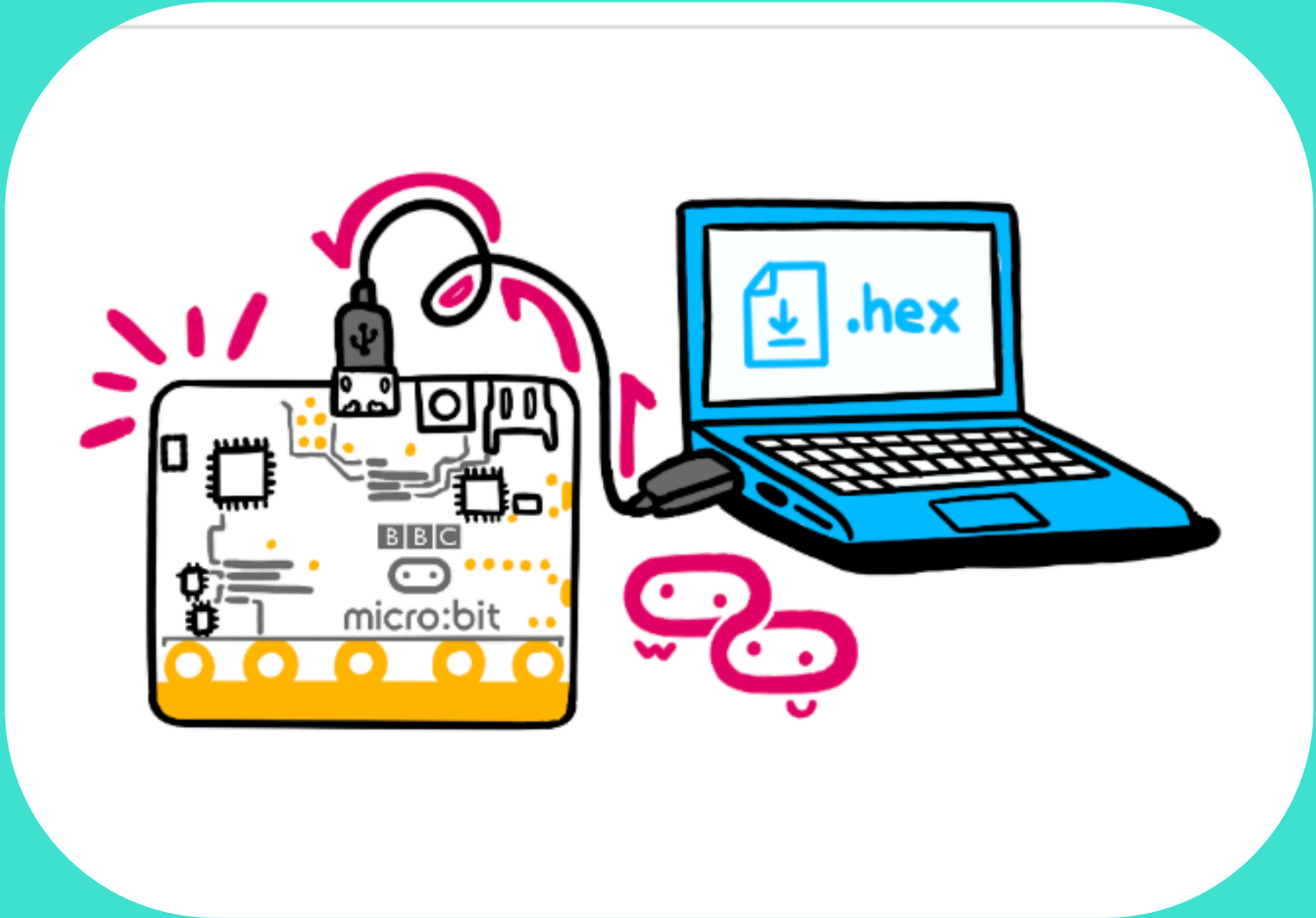


# SPACE SCIENCE KIT

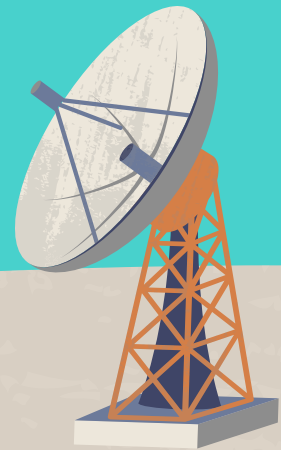
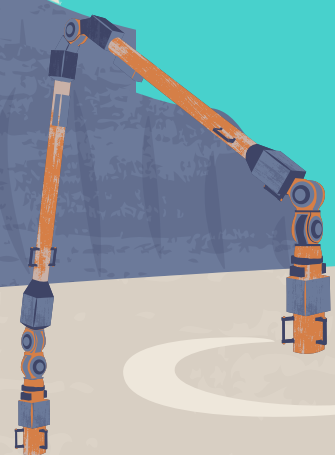
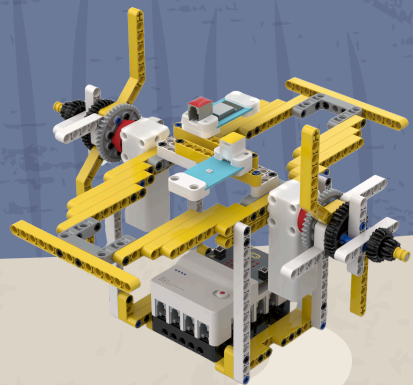
CODE  
PROGRAMMING





# MICRO:BIT SPACE SCIENCE KIT CODE PROGRAMMING

Case 01  
Rocket Launcher





Microsoft

micro:bit



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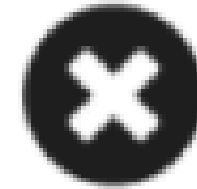
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New Project



## Create a Project



Give your project a name.

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Create



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 Basic

 Input

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 Advanced



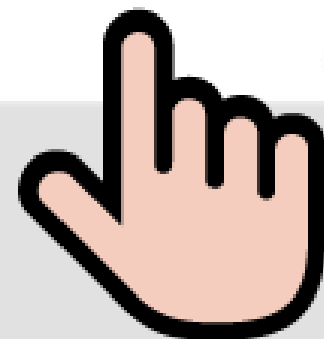
nezha2



**nezha2**

The micro:bit extension board  
Nezha2 with RJ11 connection  
port by ELECFREAKS Co.ltd

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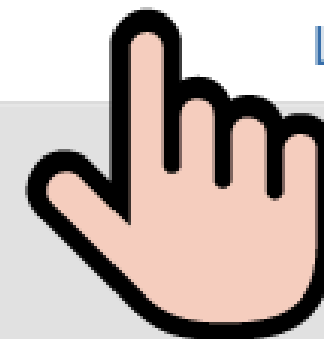
PlanetX

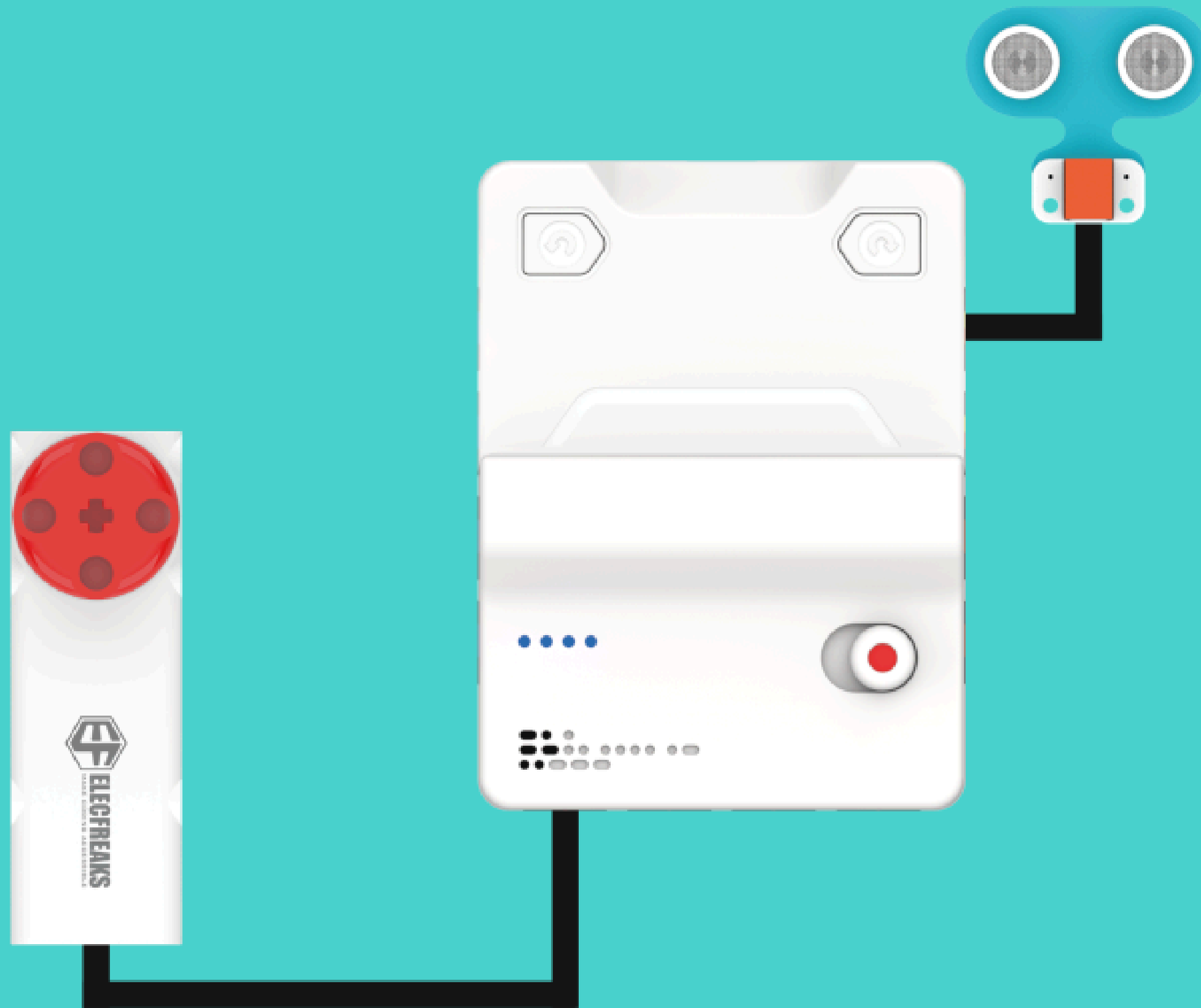


**PlanetX**

(行星X)The micro:bit new sensor  
series PlanetX with RJ11  
connection port by ELECFREAKS...

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```
on start
  show icon [grid icon]
```

```
on button A pressed
  set M1 to run clockwise 1 seconds
```

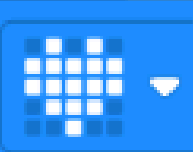
```
on logo pressed
  set motor M1 to zero
```

```
on button B pressed
  set M1 to run counterclockwise 1 seconds
```

```
forever
  repeat 3 times
  do
    set distance1 to Ultrasonic sensor J1 distance cm
    set distance2 to Ultrasonic sensor J1 distance cm
    set distance to (distance1 + distance2) / 2
    pause (ms) 100
  if (distance > 1) and (distance < 5) and (num = 0) then
    set M1 to run clockwise 1 seconds
    set num to 1
  else
    set M1 to run counterclockwise 1 seconds
    set num to 0
```

micro:bit

on start

- show icon 

on button A pressed

- set M1 to run clockwise 1 seconds

on button B pressed

- set M1 to run

forever

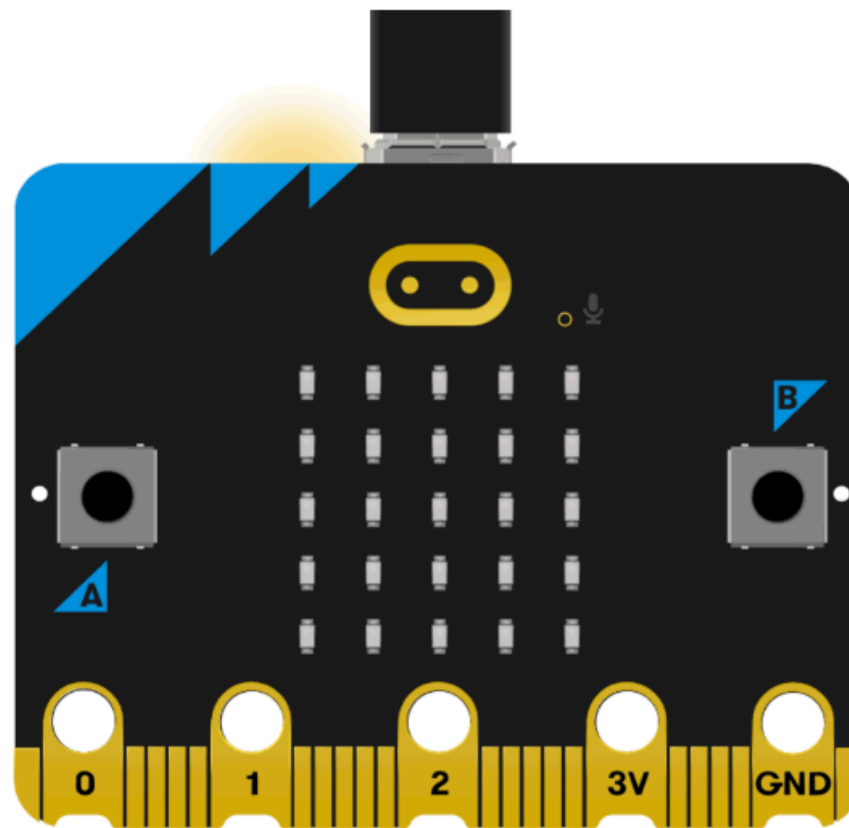
- repeat 3 times
- do
  - set distance1 to Ultrasonic sensor J1 distance cm
  - set distance2 to Ultrasonic sensor J1 distance cm
  - set distance to  $\frac{\text{distance1} + \text{distance2}}{2}$

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## Case 01: Rocket Launcher Program



## 1. Connect your micro:bit to your computer



Next

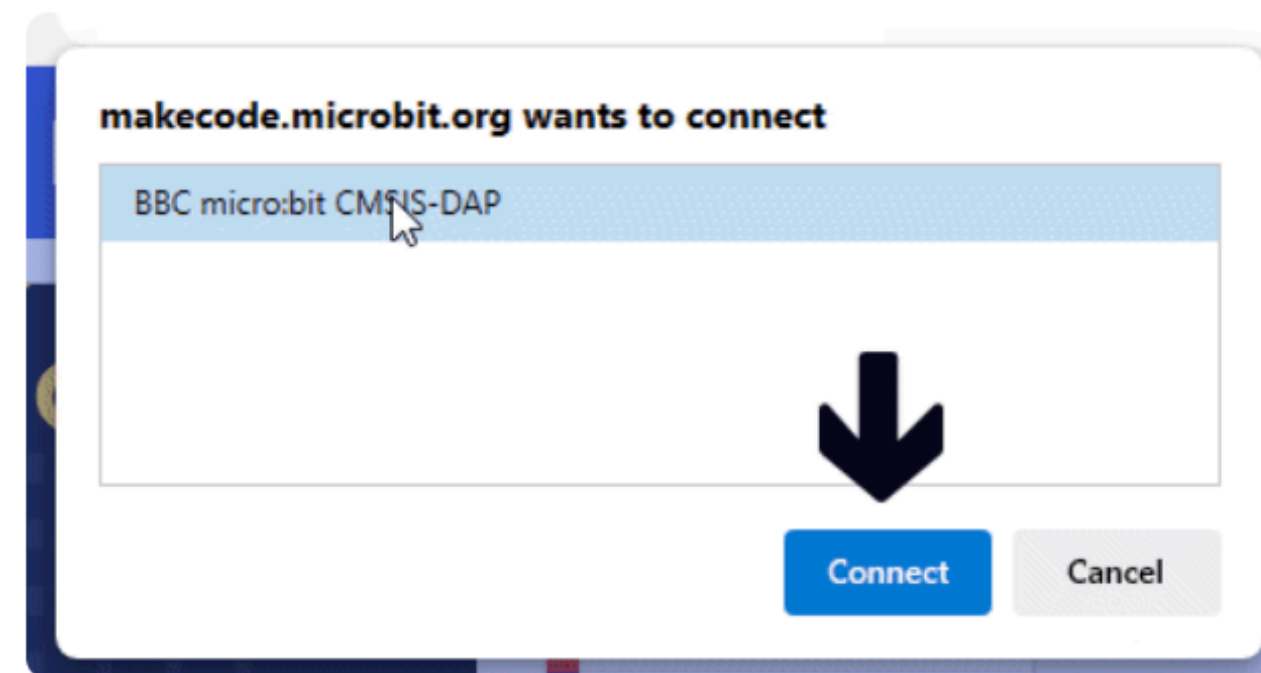
## 2. Pair your micro:bit to your browser



Press the Pair button below.

A window will appear in the top of your browser.

Select the micro:bit device and click Connect.



Download as File



Pair

## 2. Pair your micro:bit to your browser



Press the Pair button below.

A window will appear in the top of your browser.

Select the micro:bit device and click Connect.



Download as File



Pair

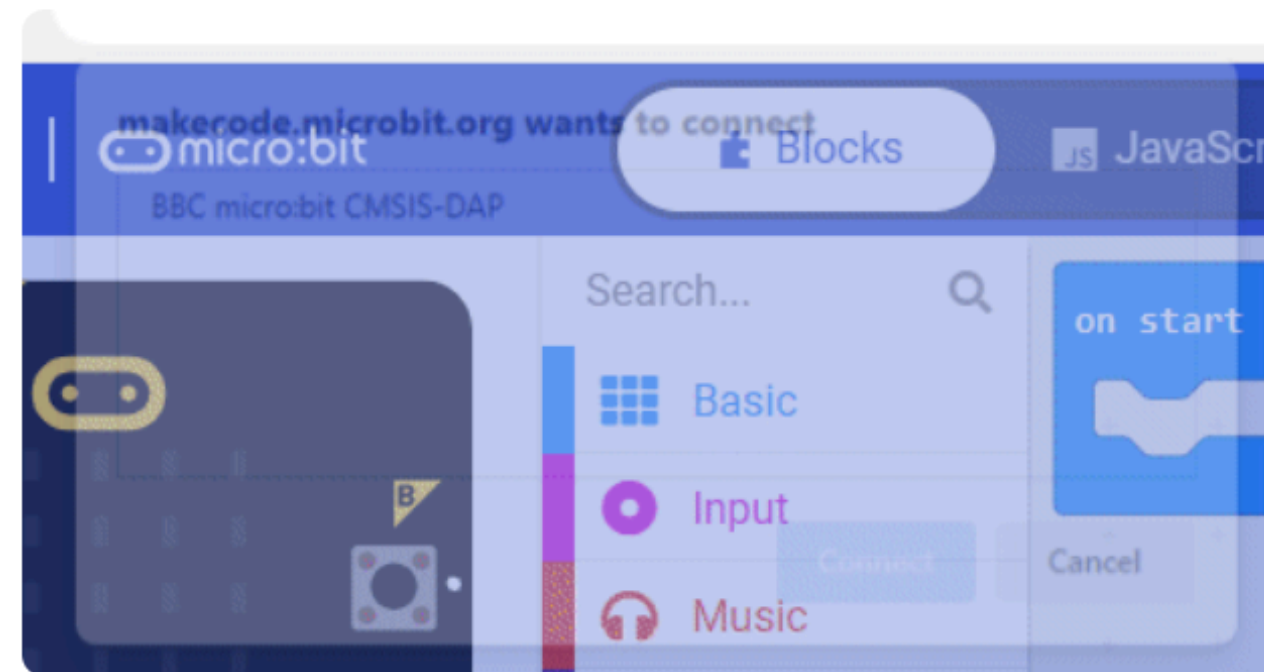
## 2. Pair your micro:bit to your browser



Press the Pair button below.

A window will appear in the top of your browser.

Select the micro:bit device and click Connect.



Download as File



Pair

## Download completed...



Your code is being downloaded as a .hex file. You can drag this file to your micro:bit using your computer's file explorer.

Want faster downloads?

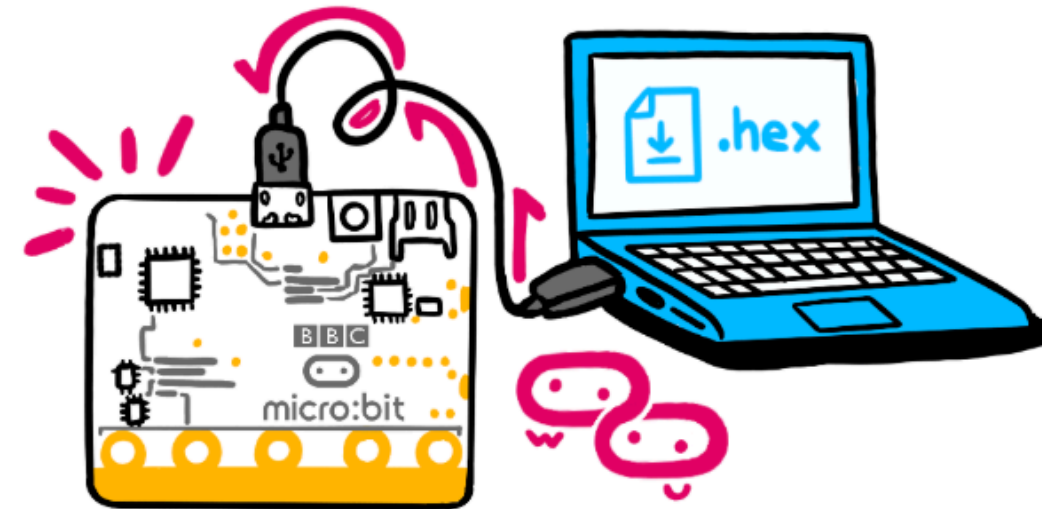


Download your code faster by pairing with WebUSB!

Pair Now



Don't show this again



Help

Download Again

Done

