

# Finch Robotics



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# What is a Finch Robot?

A Finch Robot is a small programmable robot that can come to life with code. It features sensors, LEDs, and a buzzer to create all various types of projects. It makes coding fun and enjoyable, enabling creative building, thinking, and problem-solving skills.



## Goal for Today:

- Move the robot
- Write out “BI”
- Play a note

Feel free to play around, we'd love for you to show us something cool.

# Setting Up

01

## Open Google Chrome

Using the taskbar or Windows search bar, open up [Google Chrome](#).

02

## Go to NetsBlox Editor

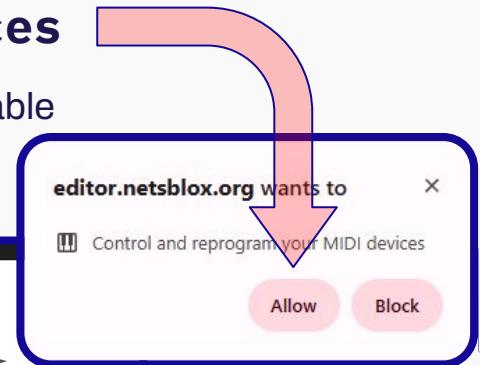
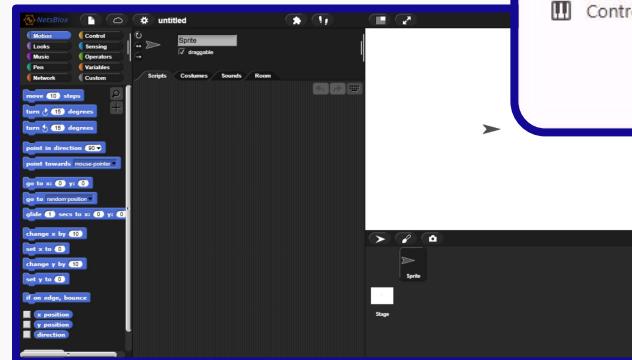
Enter the url:

<https://editor.netsblox.org/>

03

## Allow MIDI Devices

Click on “allow,” this will enable connection to the finch.

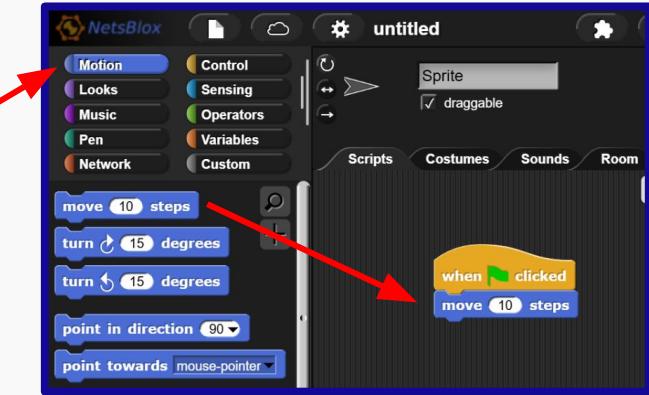


# Goal #1: Making it Move

01

## Green Flag

Under the **control** tab, drag the “when green flag clicked” block to your workspace.



02

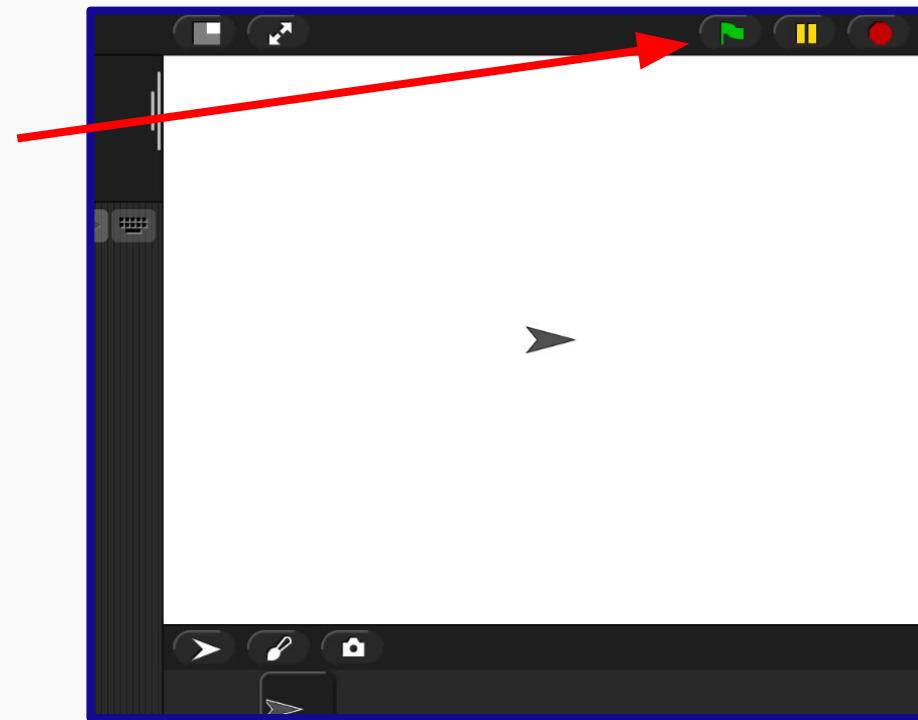
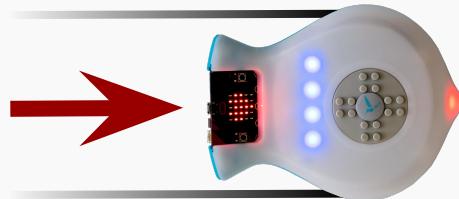
## Move 10 Steps Forward

Under the **motion** tab, drag the “move 10 steps” block to under the green flag block.

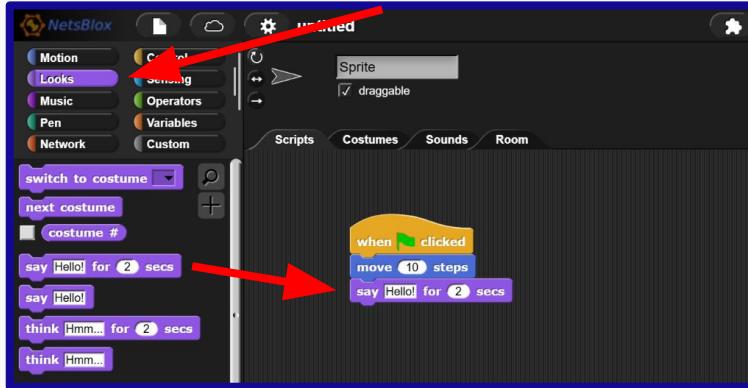
# Try Running It

On the top right of the webpage, click on the green flag to run the script on the finch.

Your finch should move forward for a short distance.



# Goal #2: Write Out “BI”



01

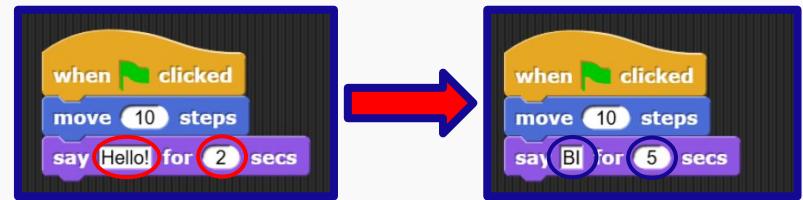
## Drag Say Block

Under the **looks** tab, drag the “say Hello! for 2 secs” block to your workspace under the previous move block.

02

## Change Text

In the **say** block, change the text from “Hello!” to “BI” and the seconds from 2 to 5.



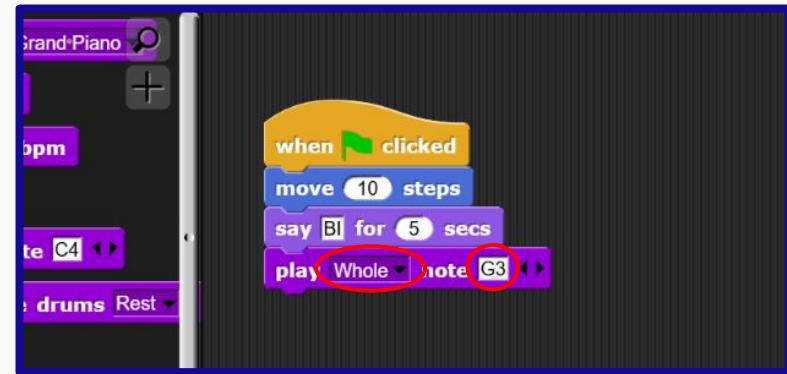
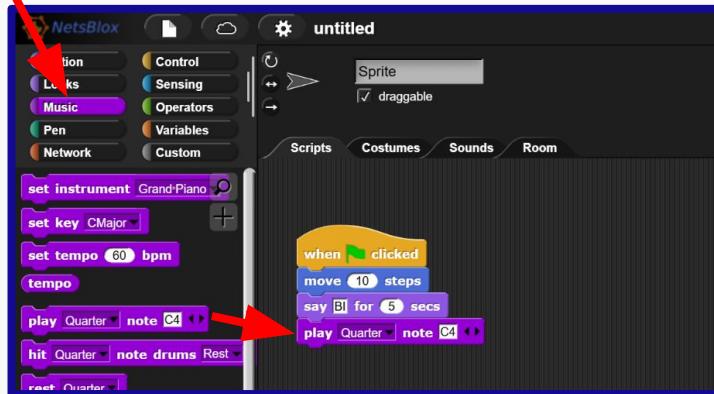
Try Running It...

# Goal #3: Playing a Sound

01

## Drag Play Note Block

Under the **music** tab, drag the “play Quarter note C4” block to under the last block.

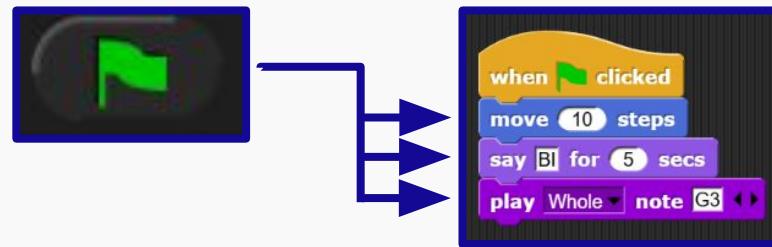


02

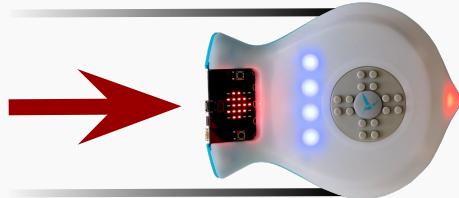
## Change the Note Options

Set the duration to a **whole** note, and change the note from **C4** to **G3**.

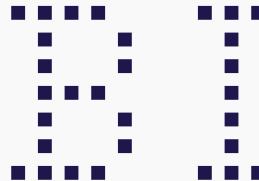
# Now Run It!



Move



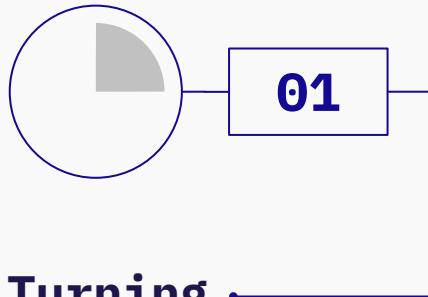
Say “BI”



Play Sound

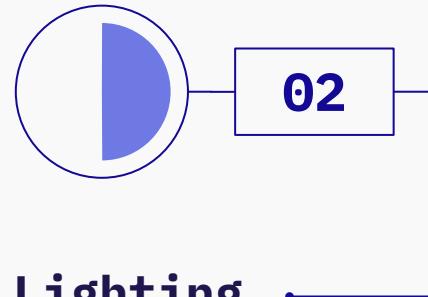


# Some ideas to try with your finch...



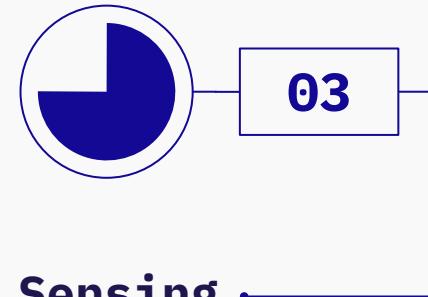
## Turning

Try making it rotate  
and move in multiple  
directions.



## Lighting

Play around with the  
lights located on the  
front and beak of the  
finch.



## Sensing

Try using the light  
sensors or ambient  
sensors on the finch.

