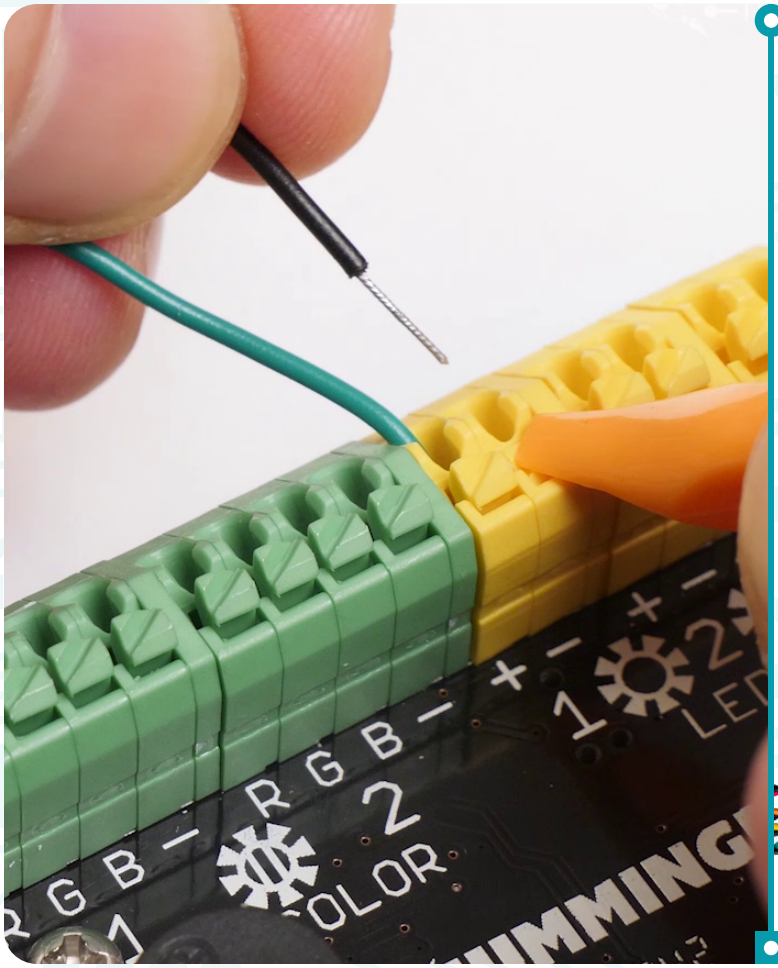


PLUGGING IN

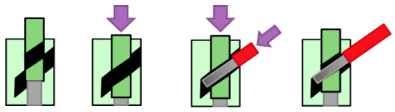
Single Color LED

Where:

LED Port 1
(+) **Other Color** Wire
(-) **Black** Wire

How To:

1. Press down button
2. Insert wire
3. Release button



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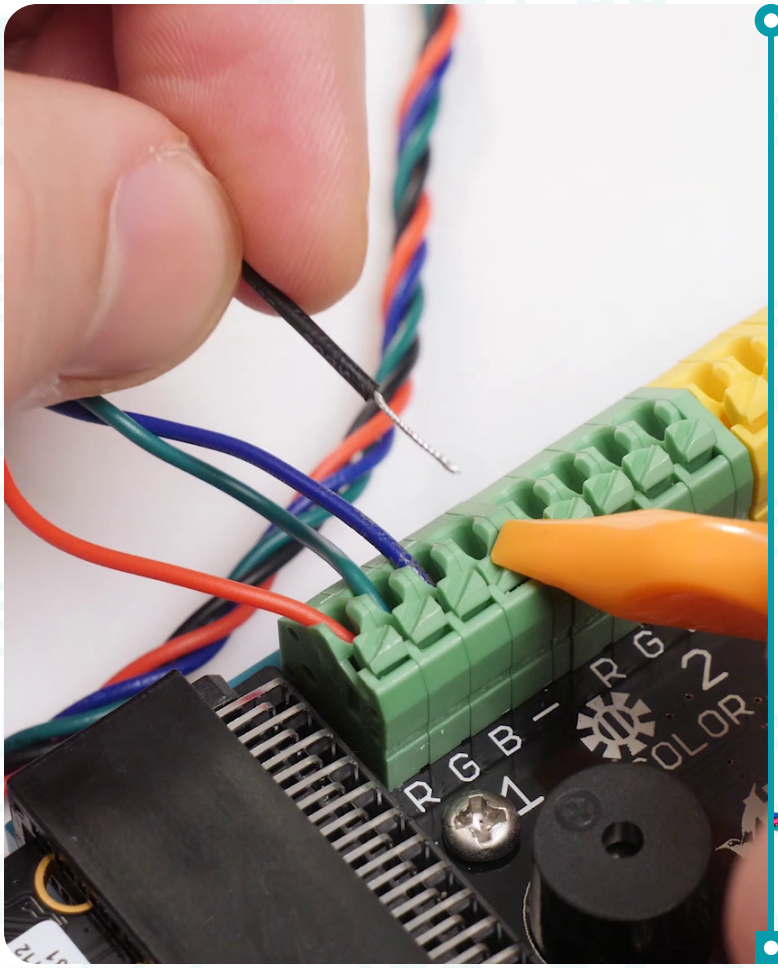


PLUGGING IN

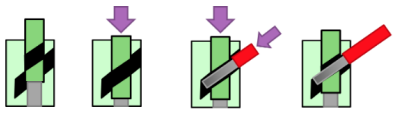
Tri-Color LED

Where:

Tri-LED Port 1
(R) **Red** Wire
(G) **Green** Wire
(B) **Blue** Wire
(-) **Black** Wire

How To:

1. Press down button
2. Insert wire
3. Release button



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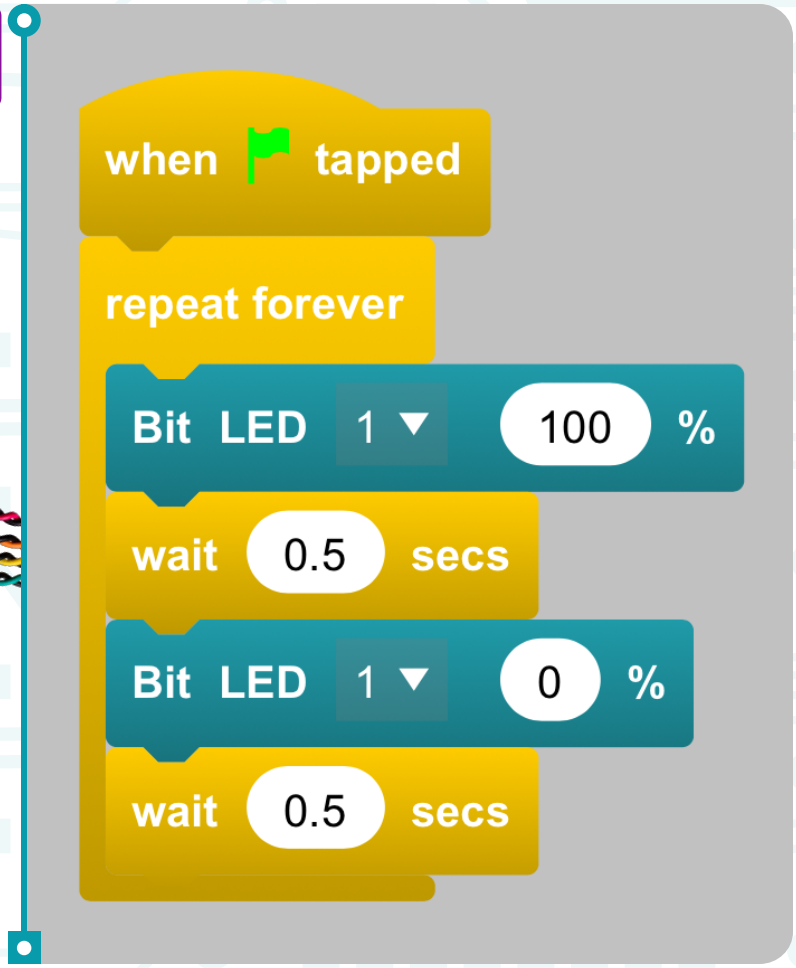
GETTING STARTED

Single Color LED

Program your single color LED to blink on and off every half of a second.

CHALLENGE

Write a program that makes the LED blink faster.



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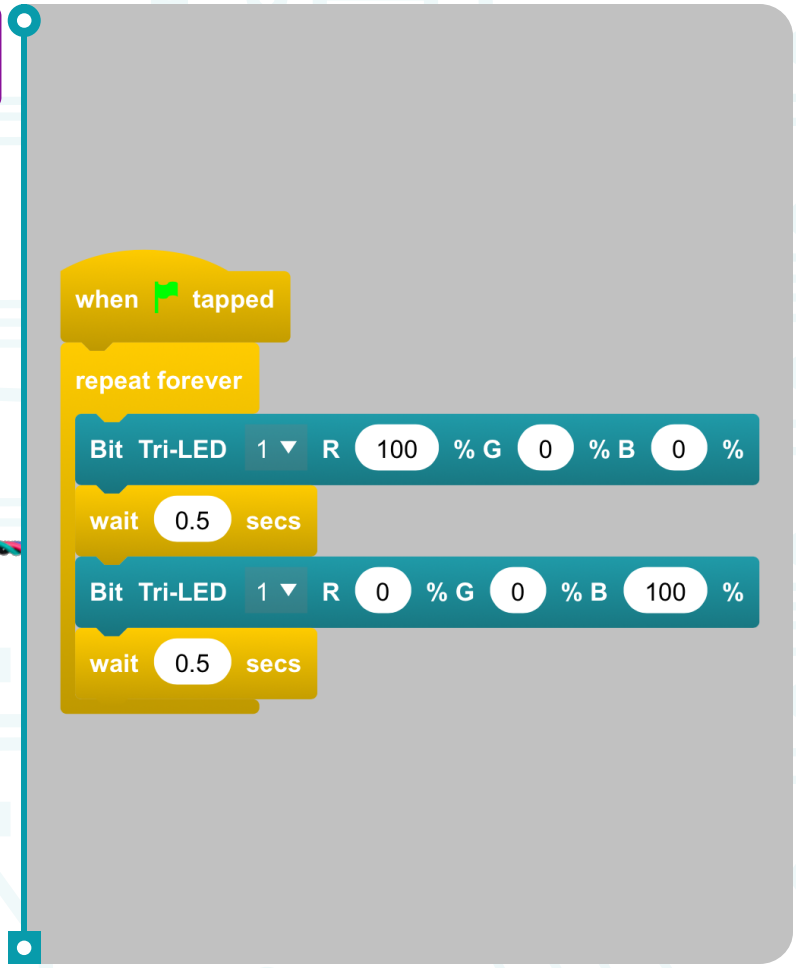
GETTING STARTED

Tri-Color LED

Program your tri-color LED to change from red to blue every half of a second.

CHALLENGE

Write a program that changes the color of the LED from purple to teal to green.



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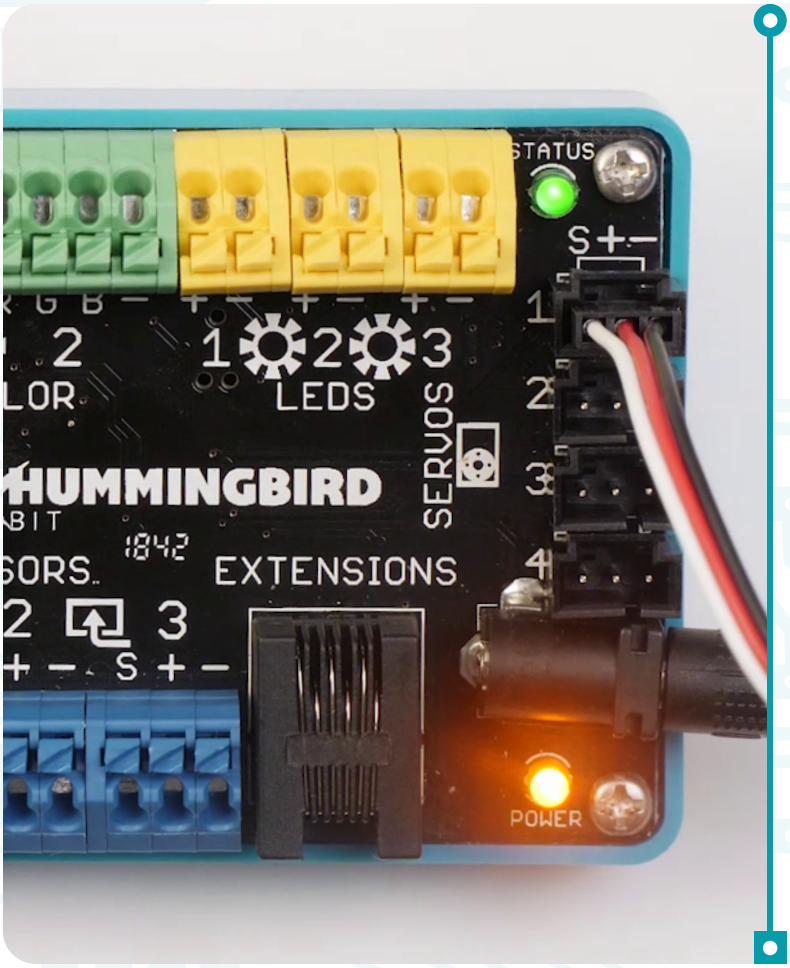
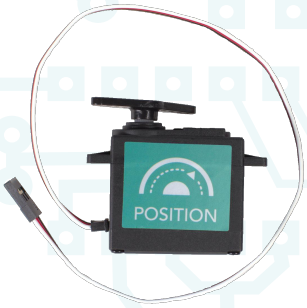


PLUGGING IN

Position Servo

Where: Servo Port 1
(S) White Wire
(+) **Red** Wire
(-) **Black** Wire

How To: Plug the end into place in the port



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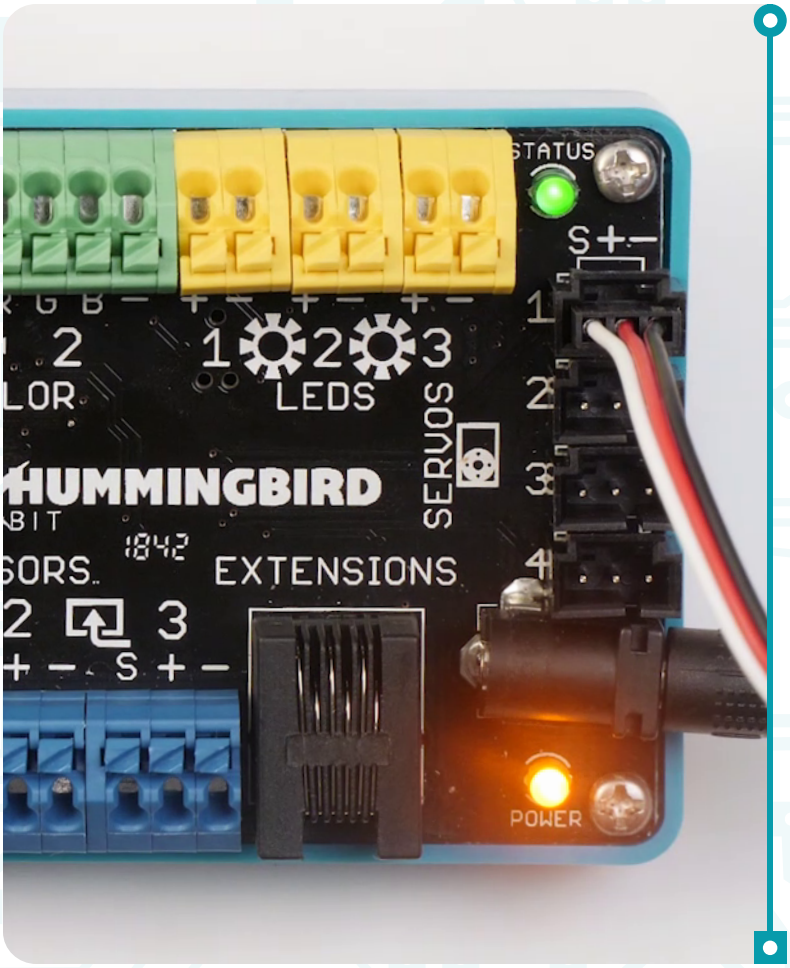

PLUGGING IN

Rotation Servo

Where: Servo Port 1
(S) White Wire
(+) **Red** Wire
(-) **Black** Wire

How To: Plug the end into place in the port

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GETTING STARTED

Position Servo

Program your position servo to move from 90° to 180° every 1 second.

CHALLENGE

Write a program that makes the servo move to 3 different positions.

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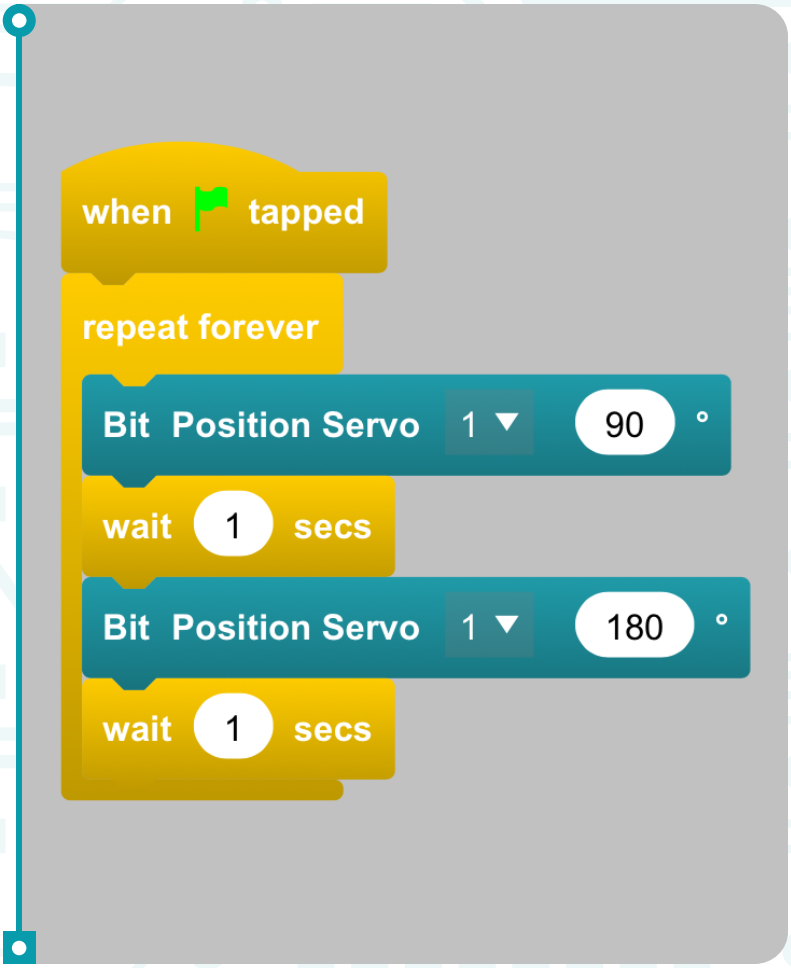
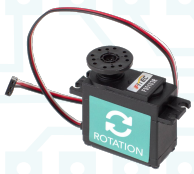


GETTING STARTED

Rotation Servo

Program your rotation servo to move at maximum speed for 2 seconds and pause for 2 seconds.



CHALLENGE

Write a program that makes the servo spin counterclockwise quickly for 1 second then clockwise slowly for 3 seconds.

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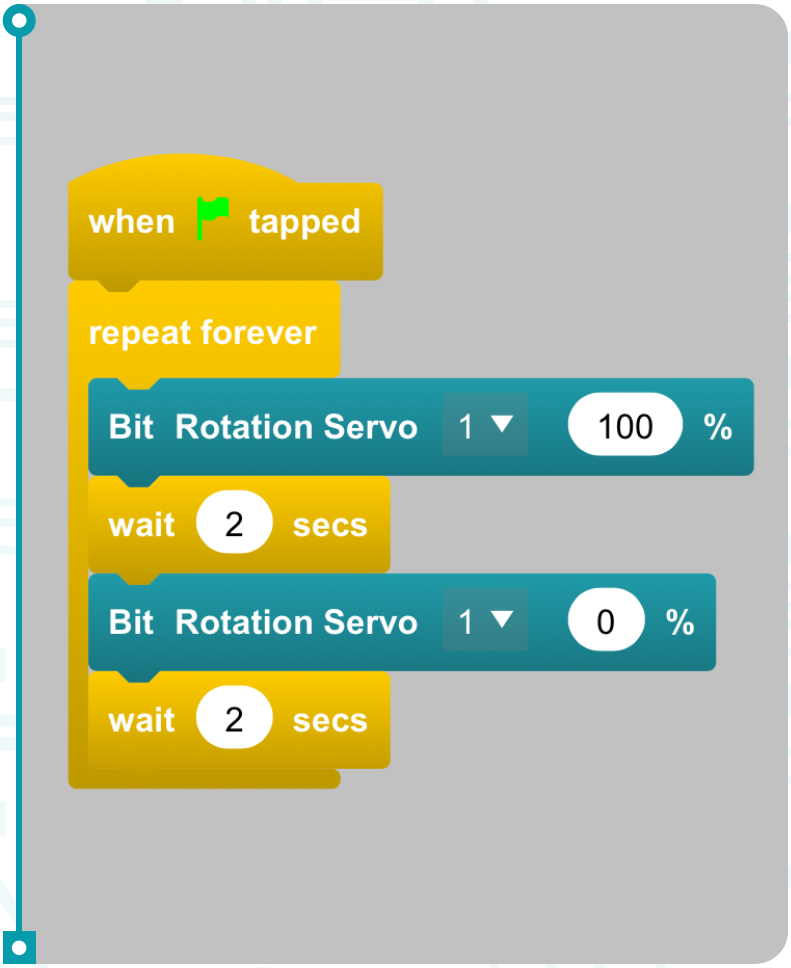
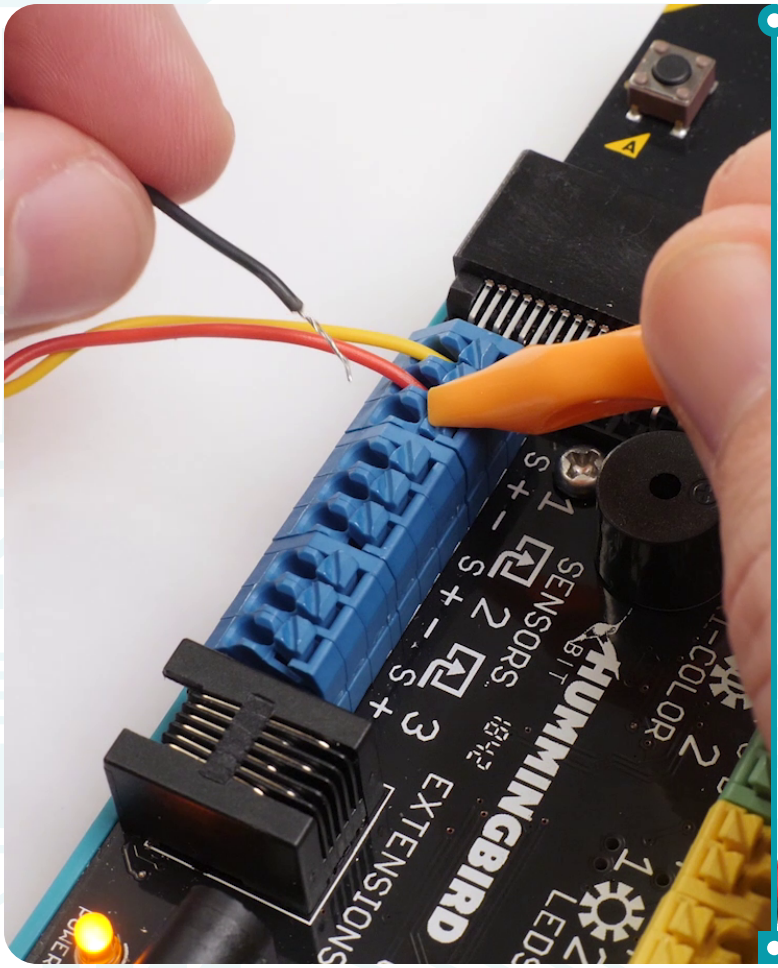




PLUGGING IN

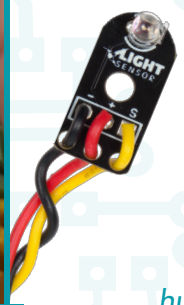
Sensor

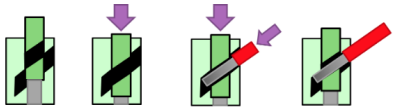
Where:

Sensor Port 1
(S) Yellow Wire
(+) Red Wire
(-) **Black** Wire

How To:

1. Press down button
2. Insert wire
3. Release button





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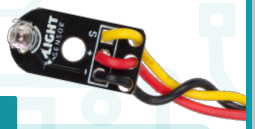
GETTING STARTED

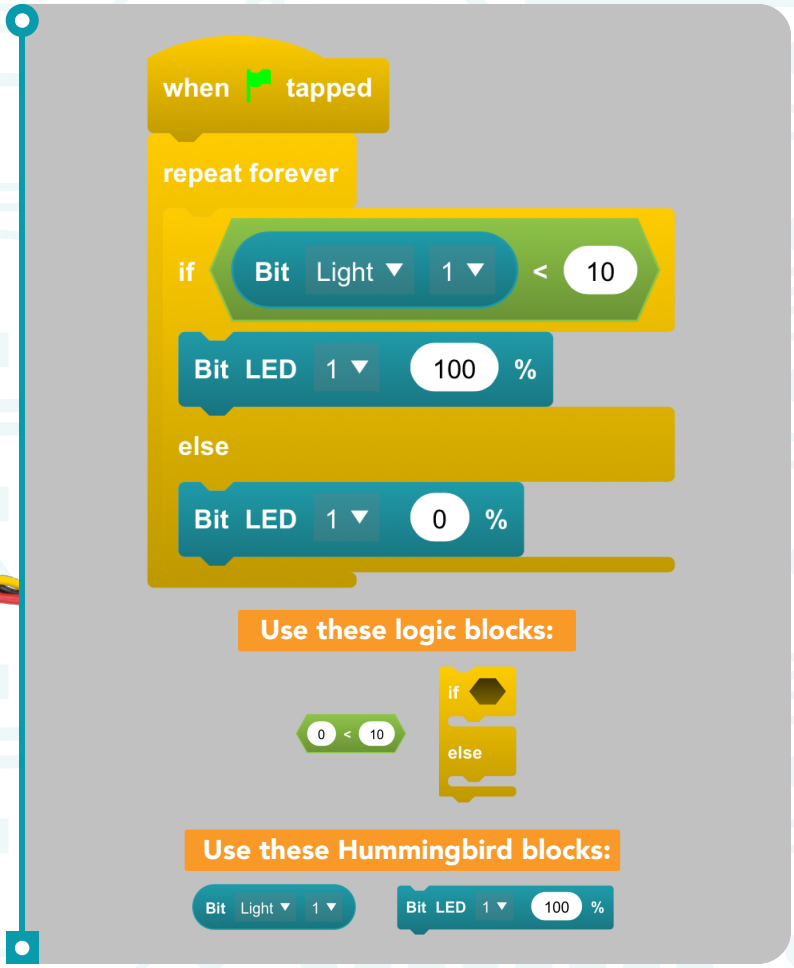
Sensor

Program your light sensor to control your single color LED. When it is dark, the LED will turn on. Otherwise, the LED will be off.



CHALLENGE

Write a program that makes an LED turn on and off with a different sensor.



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