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

**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

birdbraintechologies.com/hummingbirdbit/snap/program
GETTING STARTED
Single Color LED

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

CHALLENGE
Write a program that makes the LED blink faster.

birdbraintecnologies.com/hummingbirdbit/snap/program

GETTING STARTED
Tri-Color LED

Program your tri-color LED to change from red to blue every 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

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
**GETTING STARTED**

**Position Servo**

Program your position servo to move from 90° to 0° every 1 second.

**Challenge**

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

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**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 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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hummingbirdbit/snap/program
GETTING STARTED

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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