### 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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#### 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.

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.
**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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**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 180° every 1 second.

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

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.
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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