**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

**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
**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

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
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.

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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