

```
Arduino run first:
Set LED
Color: [Red]
wait 4000 milliseconds
Set LED
Color: Custom LED
Red [0, 255]: 255
Green [0, 255]: 51
Blue [0, 255]: 123
wait 4000 milliseconds
Set LED static
Field: 0
Color: [Red]
Set LED static
Field: 3
Color: [Blue]
Arduino loop forever:
```

```
Arduino run first:
Arduino loop forever:
Set LED
Color: [Yellow]
wait 1000 milliseconds
Set LED
Color: [Black]
wait 1000 milliseconds
```

```
Arduino run first:
define array of type Color colors
  With items
  + - create list with
  [Red]
  [Blue]
  [Yellow]
  [Green]
  [White]
  [Purple]
  [Orange]
  [Cyan]

Arduino loop forever:
Set LED
Color:
  from colors get index
  random integer from 0 to 7
wait 1000 milliseconds
```

```
Arduino run first:
Set LED
Color1: [Red]
Color2: [Blue]
Spread ratio: [50]
Direction: [0]
Set LED rotation speed
Speed: [30]

Arduino loop forever:
```

```
Arduino run first:
Robot Set Height
Height 50
wait 500 milliseconds
Set LED
Color: Red
Robot Move Direction: FORWARD
Duration 3000
wait 3000 milliseconds
Set LED
Color: Blue
Robot Move Direction: BACKWARD
Duration 3000
wait 3000 milliseconds
Arduino loop forever:
```

```
wait 300 milliseconds
Set LED
Color: [red]
Robot Move Direction: FORWARD
Duration 3000
wait 3000 milliseconds
Set LED
Color: [blue]
Robot Move Direction: BACKWARD
Duration 3000
wait 3000 milliseconds
Robot Move Linear velocity: 30 Direction: 0 Angular velocity: -40
Duration 3000
wait 3000 milliseconds
Arduino loop forever:
```

Arduino run first:

```
set int touchPattern to 0  
Robot Set Height  
Height 50  
wait 500 milliseconds
```

Arduino loop forever:

```
set int touchPattern to Get touch pattern  
if int touchPattern = 4  
do  
  Robot Move Direction: FORWARD  
  Duration 3000  
  Set LED  
  Color: yellow  
else if int touchPattern = 1  
do  
  Robot Move Direction: BACKWARD  
  Duration 3000  
  Set LED  
  Color: green  
else if int touchPattern = 2  
do  
  Robot Move Direction: RESET  
  Duration 3000  
  Set LED  
  Color: black
```

Arduino run first:

Robot Set Height

Height

50

wait 500 milliseconds

Arduino loop forever:

Set LED

Color:



Custom tilt

Tilt X [-100, 100]:

100

Tilt Y [-100, 100]:

0

Tilt Z [-100, 100]:

0

wait 2000 milliseconds

Custom tilt

Tilt X [-100, 100]:

-100

Tilt Y [-100, 100]:

0

Tilt Z [-100, 100]:

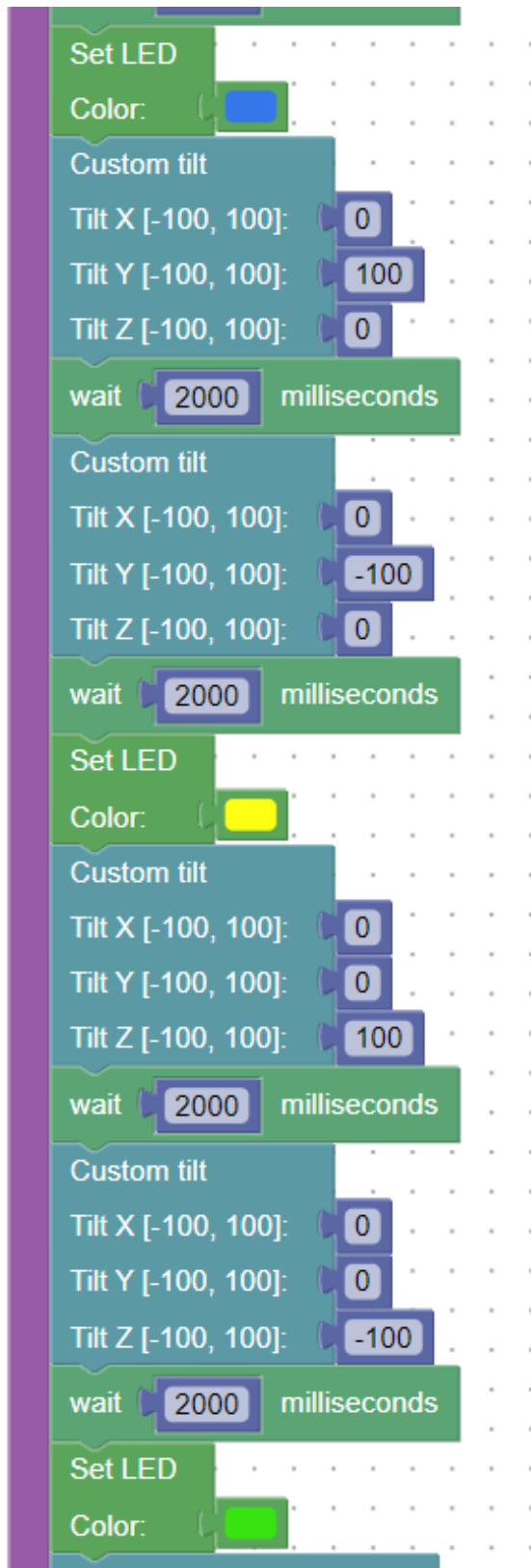
0

wait 2000 milliseconds

Set LED

Color:





The image shows a Scratch script with the following blocks:

- Set LED** block with **Color:** set to blue.
- Custom tilt** block with **Tilt X [-100, 100]:** 0, **Tilt Y [-100, 100]:** 100, and **Tilt Z [-100, 100]:** 0.
- wait** block with **2000** milliseconds.
- Custom tilt** block with **Tilt X [-100, 100]:** 0, **Tilt Y [-100, 100]:** -100, and **Tilt Z [-100, 100]:** 0.
- wait** block with **2000** milliseconds.
- Set LED** block with **Color:** set to yellow.
- Custom tilt** block with **Tilt X [-100, 100]:** 0, **Tilt Y [-100, 100]:** 0, and **Tilt Z [-100, 100]:** 100.
- wait** block with **2000** milliseconds.
- Custom tilt** block with **Tilt X [-100, 100]:** 0, **Tilt Y [-100, 100]:** 0, and **Tilt Z [-100, 100]:** -100.
- wait** block with **2000** milliseconds.
- Set LED** block with **Color:** set to green.

