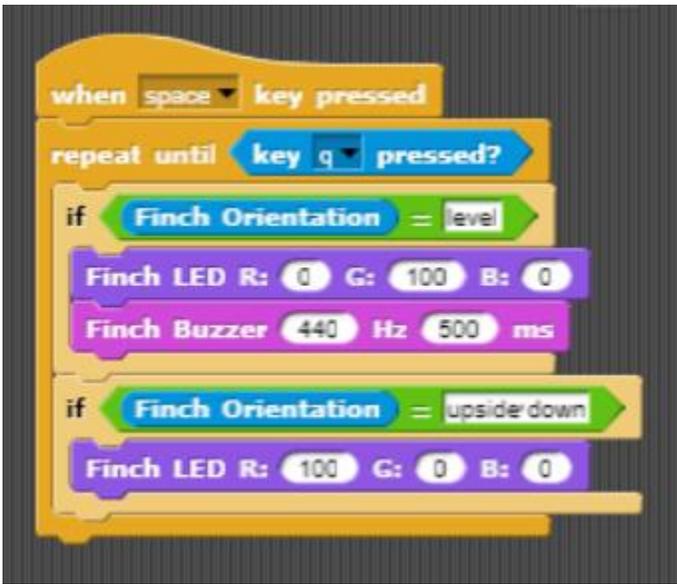


Light up Finch

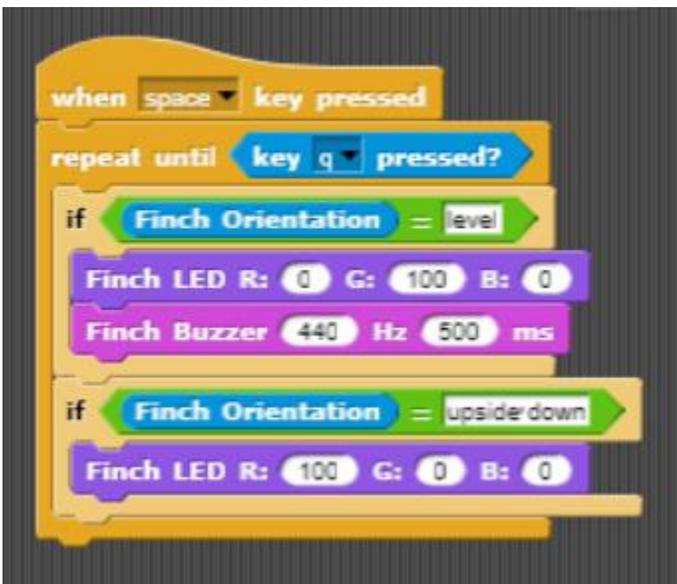


Directions:

If the robot is	Change LED color to
flat on the table	GREEN
pointing straight up to the ceiling	YELLOW
belly up	RED
leaning to the left	BLUE
leaning to the right	PURPLE
down to the floor	WHITE
not pointing in a specific direction	no light at all

Demonstrate that your program works.

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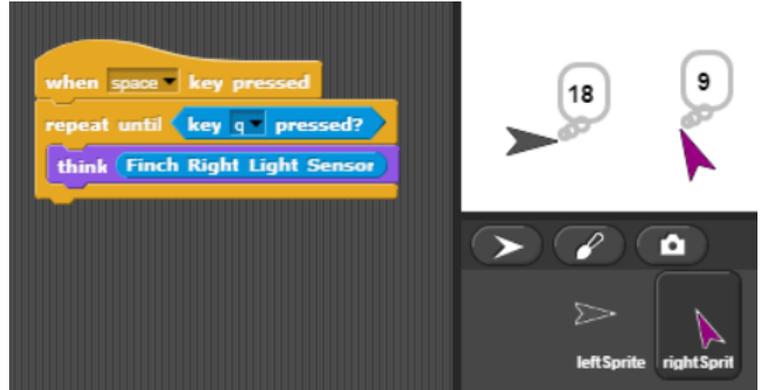
Controlling the Finch motion with the optical sensors



1. Answer these questions about photocells from [instructables](#):
2. What is a photocell?
3. What is another name for a photocell?
4. How much does a photocell cost?
5. How many volts of power can you push through this kind of photocell?
6. How many amps of current will flow through this kind of photocell?

2. Make a program with 2 sprites to read the light sensors and fill in the table.

Left sensor reading covered	Left sensor reading uncovered	Right sensor reading covered	Right sensor reading uncovered



3. Create a sprite with code to control the finch with light using this pseudocode

[Use the readings for your own robot's sensors to decide what values you should use.]

```

When the space is pressed
  repeat until it is dark
    (how dark can you make it by covering the robot with your hands?)
    if the left sensor is dark, turn left
    if the right sensor is dark, turn right
    if both sensors are light go forward
    if both sensors are dark, stop
    
```

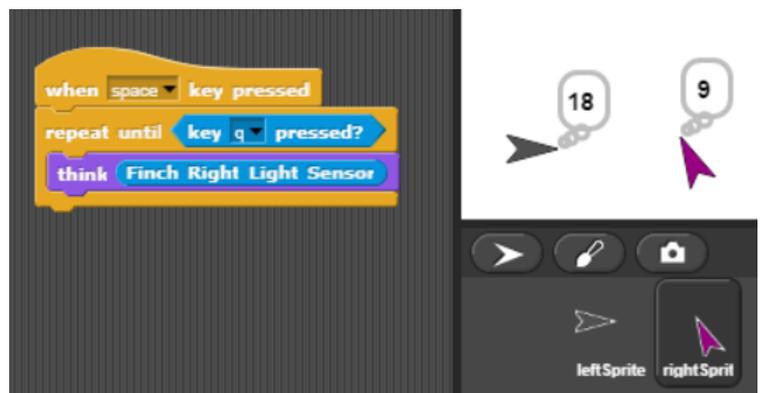
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