

Finch Snap! Card 04

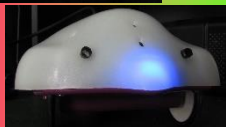
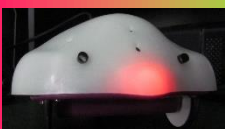
Beak Colors!



1. Go to the **Looks** area of your Snap Controls Panel.



2. Select Finch LED R: G: B: bricks at the bottom of your Looks choices.



Finch LED R: 0 G: 0 B: 0

Finch LED R: G: B:
Sets the color of the Finch's beak, controlling the intensity of the red, green, and blue elements in the Finch's beak. Range is 0 to 100 for each color.

Finch LED R: 100 G: 100 B: 100

<http://www.finchrobot.com/software/snap>

3. Experiment with the different RGB values and intensities and complete the below chart below.

Color	Red	Green	Blue
white	100	100	100
red	100	0	0
green	_____	_____	_____
blue	_____	_____	_____
purple	100	0	100
yellow	_____	_____	_____
orange	_____	_____	_____



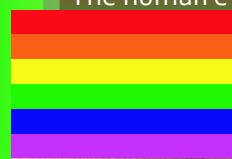
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when clicked
  forever
    Finch LED R: 100 G: 0 B: 0
    wait 1 secs
    Finch LED R: 0 G: 100 B: 0
    wait 1 secs
  
```

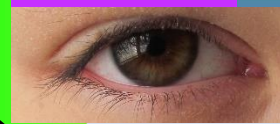
3. **Extension Task:** From the Controls Panel, replicate the codes to the left and observe what happens when you select the green flag in the Snap! Window.

Why use **RGB** values to generate colors?

The human eye has rods which detects the intensity, but also CONES where:



- a RED cone sensitive to red light
- a GREEN cone sensitive to green light
- A BLUE cone sensitive to blue light



Make A Card



1. Fold the card in half.



2. Put glue on the back.



3. Cut along the dashed line.

