

Crocodile Correction

Explore

Check out the [Swamp Boat](#) lesson. Build the model and practice coding. Then, try this debugging challenge!

Debug

A bug is an error in a program that doesn't allow it to function properly. Debug means to identify and fix the error in a program.

Extend

Can you create a program and intentionally include a bug? Share with a partner and see if they can debug your code. Alternatively, can you add a feature to your program using the built-in Gyro Sensor?



```
when program starts
  clear bar graph
  if bar value = 5 then
    play sound Boat Horn 1 until done
```

```
when color is green
  change bar value by 1
  show bar graph Fullscreen
```

```
when color is red
  change bar value by 1
  show bar graph Fullscreen
```

```
when color is green
  change bar value by 1
  show bar graph Fullscreen
```

Challenge

A student wants their program to check for three different creatures in the swamp. They intend for their program to:

- Recognize a red, green, and blue creature using the Color Sensor.
- Record values in a bar graph for each creature detected.
- When 5 green crocodiles are detected, play the boat horn.
- Their code isn't working at all! Can you help fix their code? Can you help fix their code to work properly?