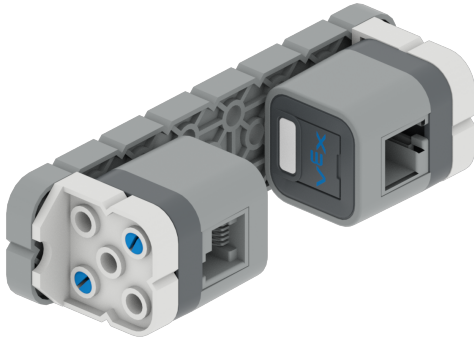


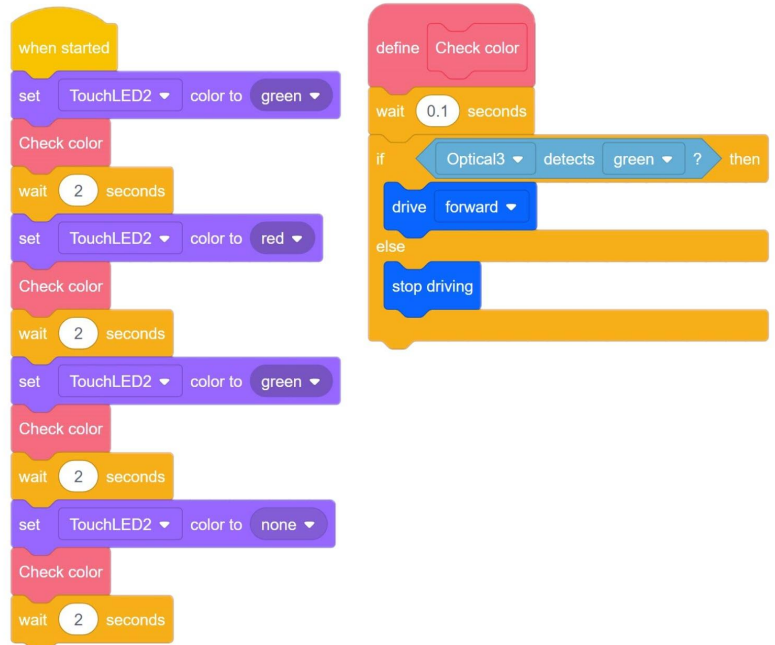


## 1..2..3.. Green Light

Can you create a VEXcode IQ project to control the behavior of your robot using the colored light from the Touch LED Sensor?

### Step by Step

1. Build the [BaseBot with Sensors](#) and open the example project BaseBot with Sensors template in VEXcode IQ. Use a Beam and two Corner Connectors to place the LED Touch Sensor in front of the Optical Sensor like in the diagram above.
2. Create the following project using a My Block.
3. Save, download, and run the project.
4. Your robot should drive forward when the Touch LED is green and stop driving when it is not green.



### 'LEVEL UP'

- **Spin dance** - Can you adjust your project to have your robot turn to the left when the Touch LED is green?
- **More color control**- Can you adjust your project to add a second color to control a second behavior for your robot. Such as, when the Touch LED is red it makes the robot reverse back to its starting position.

### Pro Tips

- The project's flow can be faster than the reaction time of some sensors. Adding a short 0.1 second pause can add to the accuracy of the sensor's recording.
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- Some electronics can use an infrared (IR) remote control that sends pulses of IR light to the receiver of a device to control its behavior.

**Standard:** ISTE (4) Innovative Designer - 4a: Students know and use a deliberate design process for generating ideas, testing theories, creating innovative artifacts or solving authentic problems.