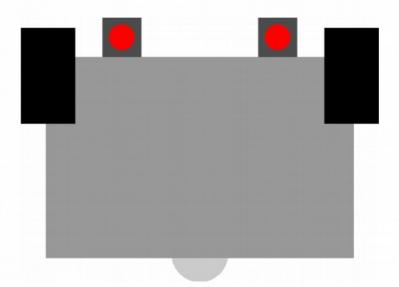


## Last Meeting's Program

```
First, drive forward most of the way out of white area (speed 40)
 2 forward ( 1.9 , rotations - , 40 );
   Drive until the right color sensor sees dark (at speed 30)
   repeatUntil ( getColorReflected(colorSensorRight) 
      setMultipleMotors ( 30 , leftMotor → , rightMotor → , noMotor → );
    Aim at the line. (0.5 rotations is 1/2 wheel rotations, not 1/2 robot rotations)
8> turnRight ( 0.5 , rotations ▼ , 20 );
    Drive until the left color sensor sees the white next to the line (at speed 20)
10 repeatUntil ( getColorReflected(colorSensorLeft) → > →
11
      setMultipleMotors ( 20 , leftMotor ▼ ,
                                              rightMotor ▼ , noMotor ▼
                                                                         noMotor
12
   Beep so we can see if the robot is in the right place for the next step...
14 playSound ( | soundBeepBeep → );
15 wait ( 2 , seconds ▼ );
   Follow the line for 4 wheel rotations (1280 degrees)
   resetMotorEncoder ( leftMotor → );
18 repeatUntil ( getMotorEncoder(leftMotor)
                                                        1280
      lineTrackLeft ( colorSensorLeft ▼ , 50 ,
19
20
```

# Other Robot Changes

- Added a second color sensor (Sanjay)
- Built an alignment jig (Brendan)



Quick Programming Lesson

### Two Kinds of Statements

#### Statements that WAIT:

- forward
- backward
- turnLeft
- turnRight
- moveMotor
- wait

(They all wait for rotations or time)

Statements that start something happening:

- setMotor
- setMultipleMotor
- lineTrackLeft\*
- lineTrackRight\*

(And then keep going to the next statement, as fast as the computer can!)

Must be used with repeatUntil, etc.

# How to Understand Programs

Pretend you are the robot.

Look at the program one line at a time.

Try to predict what will happen.





