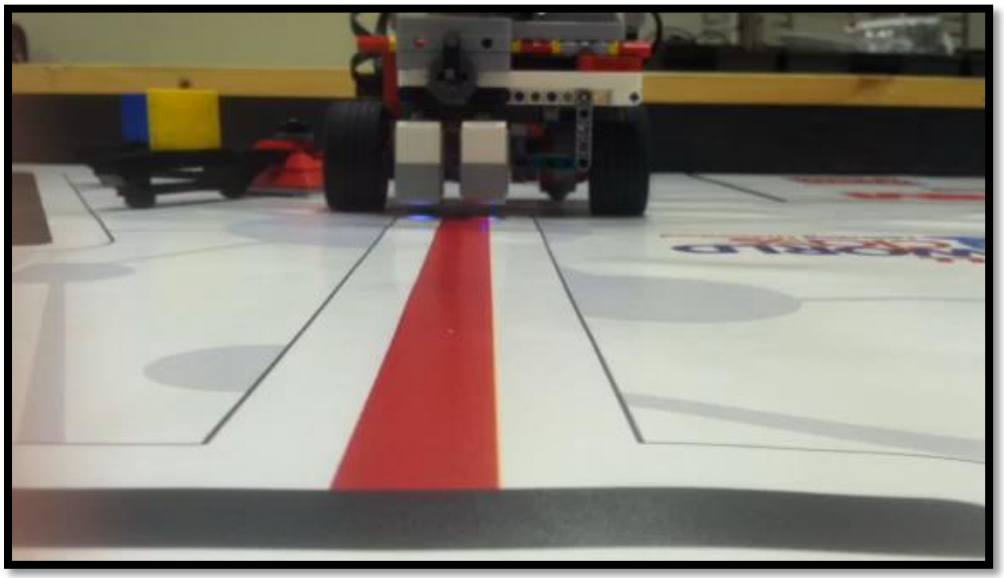
Intermediate Programming Lesson: Alternative Line Following Techniques

By FLL Team 1920 Baker's Dozen

Technique: Line straddling

Line straddling is when you use two light sensors next to each other to follow a line

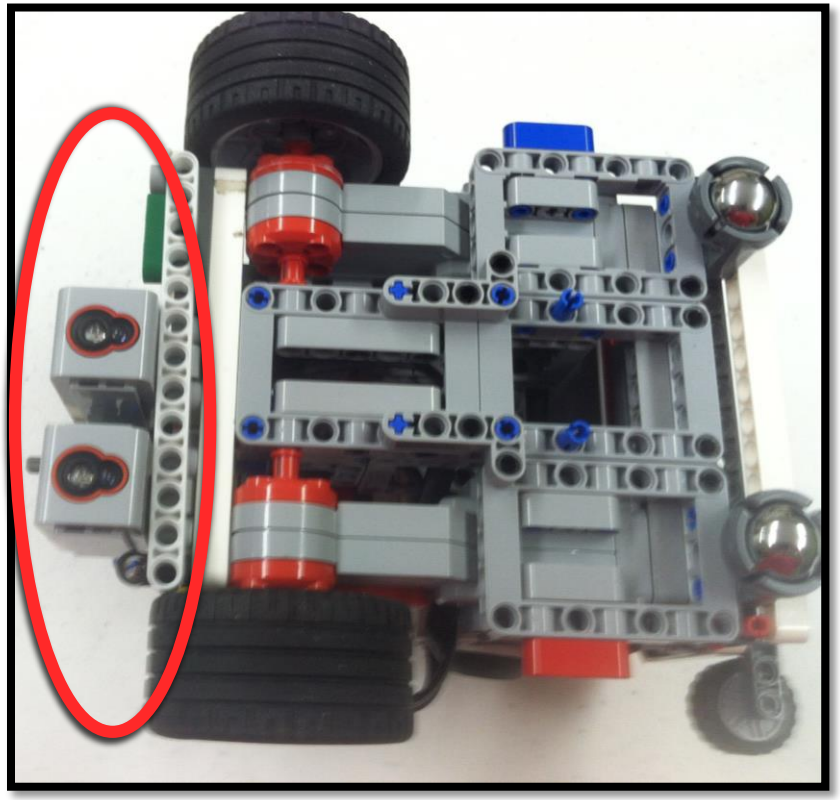
- Advantages:
  - reduces “fish tailing” (the wiggle of the back of the robot
- Disadvantages:
  - Will be harder to square on a line since the sensors are closer together



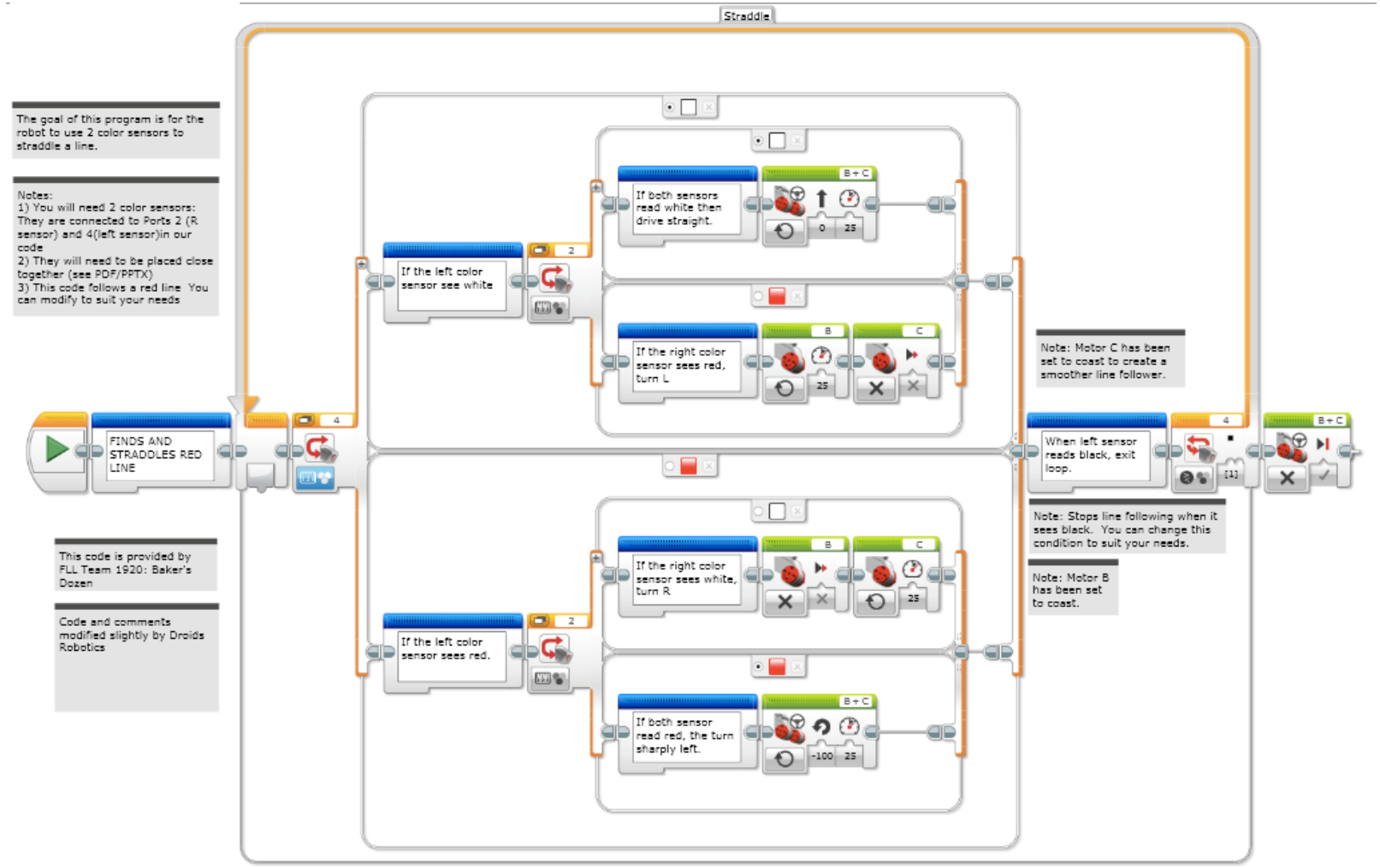
Watch video to see line straddling in action

Line Straddling: Tips for success

- Placement of the two color sensors are very important
- In the picture on the right, we have a beam placed so you can see how far apart to place your sensors.



Line Straddling Code



Credits

- This lesson was compiled and slightly modified by EV3Lessons.com/Droids Robotics to fit the format of other lessons.
- The video, photograph and code for Line Straddling were created and shared by FLL Team 1920, Baker's Dozen
- More lessons are available at www.ev3lessons.com