

Pretend the tile lines on the floor represent an intersection in a road.

Place a red block on the floor to indicate a stop sign (if it doesn't work well with Red, try another color if need be).

### **Have the following rules:**

- **If an object is close to front of the car (you can use the Ultrasonic or IR sensor for depth) have the car stop.**  
*Adjust this, so that the stop sign doesn't cause the depth sensor to see the stop sign.*
- **If close to the stop sign (use the color sensor). Stop moving for 2 seconds.**
  - **Using the color sensor, test that the robot stops at the intersection line, like a car would (do not cross into the intersection yet).**
  - **You might need to adjust things in your program so that the robot doesn't get stuck at a stop sign, because it will see the sign, stop, and still see it.**
- **Otherwise move forward**

Try seeing if your car can cross the street (have only 1 stop sign on the road, as if it was a 1 way street).

Try seeing how it will work with:

- 2 cars on the road (going the same direction)
- A person or car in the intersection
- Try with more than one intersection and add multiple cars