This car operated by the color-sensing camera on the back and an infrared sensor on the front. The robot turns toward whatever color it's programmed to, and listens to an IR remote to control driving when it does not see anything.

It gets the x position of the biggest object it sees of a certain color, and feeds back a voltage through the xOUT wire (red) which tells the wheels which way to turn.

We could make the robot not ignore your controls when it sees an object, but we haven't been able to do that since we had a difficult time choosing whether the camera would always turn and the remote could offset, or if a button should handle the camera.