Text

Description automatically generated with low confidence

**Line sensors**

https://makecode.microbit.org

Maqueen has two line sensors, we can use them as its left and right eyes.

# **First, import the ‘maqueen’ library**

# A picture containing engine, toy Description automatically generated**Read line tracking sensor**

Each sensor returns:

* 0 if the surface beneath is black
* 1 if the surface beneath is white

The following code reads both sensors and places the data in variables **left** and **right**.

Go through the different cases

* left=0, right=0 : move straight ahead
* left=0, right=1 : steer left to get back on the line
* left=1, right=0 : steer right to get back on the line
* left=1, right=1 : ?

Graphical user interface, application

Description automatically generatedThis drives faster on the straights (0,0)

*If it comes off the line and both sensors detect white (1,1) it just carries on doing what it was doing before.*

*This can help it find the line again.*