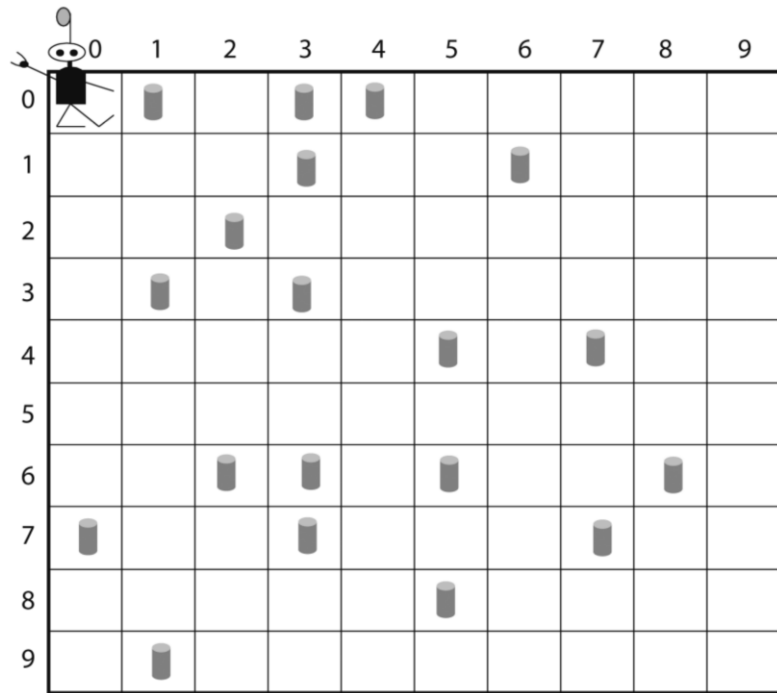


Robby the Robot's World



- Robby lives in a simulated 2D world strewn with discarded drinks cans.
- Robby's eyesight isn't great – he can see what's in the square he's standing in, along with what's in the squares to the north, east, south and west.
- He can see that a square is:
 - Empty
 - Contains a drinks can
 - Contains a wall (if he's at the edge of the grid)
- He can perform one of the following actions at a time:
 - Pick up can
 - Move north
 - Move south
 - Move west
 - Move east
 - Move in random direction
 - Do nothing

Robby is awarded 10 points every time he picks up a can. But he loses 1 point if he tries to pick up a can from an empty square. He also loses 5 points if he walks into a wall.

Challenge: Create Your Own Robot Brain

- I have shared Python code that includes a simulated environment for Robby the robot can picker.
- It also includes several “robot brains” including Random Robby and some smarter ones.
- Examine the code for these and then create your own robot brain that does better than mine!

