

Here is where the agent will interact and learn. An empty board is created, the players then take turns inputting counters until one of them wins or the board is full.





MATLAB[®] The environment was created using MATLAB

MATLAB Testing: 100 games played.
Vs Random agent
96% - win
4% - loss
0% - draw
Vs Rule Agent
58% - win
39% - loss
3% - draw

Leaderboard Position: 465 Total Agents

335 Sam Hennessey

Conclusion:

kaqqle

- The inability for a a-table to adapt to new rules such as new columns (i.e. new available moves) is a problem.
- The number of states for a connect 4 board are >4.5 trillion. Combined with all other possible states of all possible board configurations, it is unwise to find and store them all
- A better solution would be to use neural networks to find the optimum policy of the game.