

Homework 04 – Tic-Tac-Toe AI!

In this homework you will finish up the tic-tac-toe program from lab. In addition you will add in a computer player. If you want to have the game between two human players you can implement a computer “suggestion” rather than a computer player.

Make a Better and Better AI

We think that it will be helpful to work on the AI incrementally using the suggestions below. However, you are welcome to work in any order and only need to turn in your final copy of the AI.

- Make a computer player (or computer suggestion) that randomly selects any of the open spots.
- Make the computer player pick a random spot UNLESS they can win in that move.
- Make the computer player pick a random spot only if they can't win and they can't block the other player from winning.
- Add an additional rule for the computer AI so that they are more likely to win. Play tic-tac-toe with your partner to figure out what might be a good strategy.