

Tic Tac Toe vs AI

Welcome to a Tic Tac Toe fight vs artificial intelligence. This program lets you compete with an unbeatable AI, always letting you start first and giving you the advantage (it won't help!).

How to use:

- Open program in a python IDE
- Run the program
- Follow the instructions given to you in console
- Continue until the game ends (a maximum of 9 possible moves encompassing both the AI and user)

Sample Game where AI Wins

Welcome to tic tac toe!
You are 'X' and the AI is 'O'.

00 | 01 | 02

10 | 11 | 12

20 | 21 | 22

Enter your move (row (horizontal) and column (vertical), like '1 1' for the middle):

- | - | -
- | - | -
- | - | -

Your turn: 1 1

- | - | -
- | X | -
- | - | -

AI's turn:

O | - | -
- | X | -
- | - | -

Your turn: 0 1

O | X | -
- | X | -

- | - | -

AI's turn:

O | X | -

- | X | -

- | O | -

Your turn: 0 2

O | X | X

- | X | -

- | O | -

AI's turn:

O | X | X

- | X | -

O | O | -

Your turn: 2 2

O | X | X

- | X | -

O | O | X

AI's turn:

O | X | X

O | X | -

O | O | X

AI wins! :)

Sample game where AI forces draw

Welcome to tic tac toe!

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00 | 01 | 02

10 | 11 | 12

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Enter your move (row (horizontal) and column (vertical), like '1 1' for the middle):

- | - | -

- | - | -

- | - | -

Your turn: 1 1

-		-		-
-		X		-
-		-		-

AI's turn:

O		-		-
-		X		-
-		-		-

Your turn: 2 0

O		-		-
-		X		-
X		-		-

AI's turn:

O		-		O
-		X		-
X		-		-

Your turn: 0 1

O		X		O
-		X		-
X		-		-

AI's turn:

O		X		O
-		X		-
X		O		-

Your turn: 2 2

O		X		O
-		X		-
X		O		X

AI's turn:

O		X		O
O		X		-
X		O		X

Your turn: 0 2

This position is already taken. try again.

Your turn: 1 2

O		X		O
O		X		X
X		O		X

It's a tie!

Credits for help with making the minimax algorithm: Chapter 5 Adversarial Games slides by Professor von Briesen, and [GeeksForGeeks](#)