

Tic Tac Toe Strategy

Saturday, January 28, 2017 1:25 PM

0	1	2
3	4	5
6	7	8

board status
data: "s b")
your symbol
1: X
2: O
board #: 0 ~ 8
9: any board)

output: 0 ~ 80 (location on board)

p1

X		
X		X

p2

X		
	X	
X		

p3

X	X	
	X	

p4

X		
X	X	

Play First

First, plays at corner.

(1) opponent : #4

(2) not #4 ⇒ You win!

0 at center (1) → create p1

a.

		X
	O	
X		

play diagonally.

O		X
	O	
X		O

opponent on the edge.
then fill the corner

b.

	O	X
X		

	X	
	O	
X		

play on the edge
not touching first X.

→ opponent puts diagonally.
not touching your 2nd X.
⇒ WIN!

c. block it. (TIE!)

		X
	O	O
X		

↳ not corner

O	X	
	O	
X		

↳ touching X

O not at center.
(2)

∩.

X		X
X	O	

any corner has one space
between the first X.

↙ block u

↘ don't block u ⇒ win!

X		X
O		
X	O	

↓

X		X
O		
X	O	

play second.

① opponent starts at corner:

Force a draw!

1st ⇒ center

2nd ⇒ edge. unless blocking opponent's 3.

② opponent starts at center:

Force a draw!

1st ⇒ corner

keep blocking

③ opponent starts at edge:

try win!

1st ⇒ corner next to O.

if opponent ⇒ OXO

① 2nd ⇒ center.

if opponent: ri c next to X.

which you can make OXO

② 2nd ⇒ not center.

X		X
O	X	
		O

X		
O	O	X

X	X	
O	O	X
O	O	

X	O	
O	O	X
	X	O

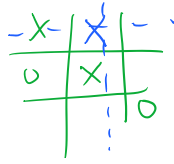
X	O	X
O	O	X
O	X	

Draw

X		
O	O	X

no blocking strategy

IF no blocking, create the one
with rows of 2's or 3.



First.

Second.



play corner

