Smart Tic-Tac-Toe

What does it do: Human plays computer in Tic Tac Toe. Human selects one of nine buttons, and the computer responds with a move.

How does it work: The computer chooses the best move using Artificial Intelligence (AI). The AI algorithm is as follows:

z

1

2

3

4

5

6

7

8

9

a1y

b1

a2

c2

b

c

1

2

3

a

a3z

b3

c3y

b2yz

c1z

y

Each spot on the Tic Tac Toe board is a button. Each button is denoted by a location address using up to four characters. Letters a-c denote columns, numbers 1-3 denote rows, and letters y and z denote diagonals.

This method of denoting a location address is necessary for the computer to be able to assess positions in the game. See Michael Silver for more details.

Array:

btn 1: a3z

btn 2: b3

btn 3: c3y

btn 4: a2

btn 5: b2yz

btn 6: c2

btn 7: a1y

btn 8: b1

btn 9: c1z

a3z, b3, c3y, a2, b2yz, c2, a1y, b1, c1z