Tilt Maze

* What You Need:

1 x Crazy Circuits Bit Board 1 x micro:bit 2 x LEGO Compatible 270 Degree Servo 1 x Thumbstick 4 x Jumper Wires 1 x AAA Battery Pack 1 x Tilt Maze 2 x LEGO Baseplate Misc LEGO Parts

How it Works:

The Crazy Circuits Bit Board allows us to easily plug in the servos and the thumbstick using the header pins on the board. The servo connectors plug right in and the thumbstick can easily be connected using 4 jumper wires.

The thumbstick can move left/right and up/down, so we'll map the left/right movement to the X servo and the up/down direction to the Y servo. Moving the thumbstick will then control the movement of the servo motors and tilt the maze table the appropriate direction allowing the ball to roll through the maze.





Plug the Y Servo connector into the Pin 14 row. The orange wire goes into Pin 0, the red wire into the + (positive) column, and the brown wire into the - (negative) column.

Plug the X Servo connector into the Pin 13 row. The orange wire goes into Pin 0, the red wire into the + (positive) column, and the brown wire into the - (negative) column.

The pins next to the numbers 1, 0, 15, 14, and 13 each connect to the corresponding digital input/output pin on the micro:bit The pins in the + (positive) column are all connected together and go to the 3.3v power supplied to the Bit Board. The pins in the - (negative) column are all connected together and go to the common ground connection of the Bit Board.

