ARTBOTICS

Programming with Lego Mindstorms NXT

Reacting to Sensors
Touch Sensor
True/False Boolean value

Sound Sensor
0-100 value (silent-sound)

Ultrasonic Sensor (Distance)
0-100 value (far-close)

Plug into ports 1, 2, 3, 4 on the NXT Brick
Touch Sensor

Boolean value: true or false, on or off

https://www.youtube.com/watch?v=_qPa0fz1oT0
Sound Sensor

0-100 value for volume

https://www.youtube.com/watch?v=lP6MD4YoKRk
Distance Sensor

0-100 value for distance from sensor

https://www.youtube.com/watch?v=-4yF7257P7E
Blocks used with Sensors

Wait blocks

The program pauses until the sensor is interacted with, and then continues executing the program.

Switch block

The program executes either the top beam or bottom beam commands based on the sensor’s input.