FINCH ROBOT 2.0 BLOCK DESCRIPTIONS

BirdBlox

Block	Description
Finch Move Forward ▼ 10 cm at 50 %	Moves the Finch forward or back for a given distance at a given speed (0-100%).
Finch Turn Right ▼ 90 ° at 50 %	Turns the Finch right or left a given angle at a given speed (0-100%).
Finch Beak R 0 % G 0 % B 0 %	Prints letters and numbers on the micro:bit LED display.
Finch Tail all ▼ R 0 % G 0 % B 0 %	Sets one or all of the tri-color LEDs in the Finch tail to the color specified by red, green, and blue brightness values. The values range from 0% to 100%.
Finch Wheels L 0 % R 0 %	Sets the rotation speeds of the left and right Finch wheels to values from -100 to 100%.
Finch Stop	Stops the Finch wheels.
Finch Print Hello	Prints letters and numbers on the micro:bit LED display.
Finch Display	Displays a pattern on the micro:bit LED display.
Finch Play Note 60 for 1 Beats	Plays a MIDI note (32-135) for a given number of beats using the buzzer in the Finch.

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Finch Distance
Returns the value of the Finch distance sensor in cm.

Finch Right ▼ Light
Returns the value of the right or left Finch light sensor from 0-100.

Finch Right ▼ Line
Returns the value of the right or left Finch line tracking sensor from 0-100.

Finch Right ▼ Encoder
Returns the number of rotations that the right or left wheel has turned.

Finch Reset Encoders
Sets the value of the left and right encoders to zero.

Finch Button A ▼
Returns a Boolean value that indicates whether the selected micro:bit button (A, B, or Logo) is pressed. The Logo button is only available for the micro:bit V2.

Finch Screen Up ▼
Returns a Boolean value that indicates whether or not the Finch is in the selected position.

Finch Accelerometer ▼ X ▼
Returns the value of the Finch accelerometer or magnetometer in the x, y, or z direction.

Finch Compass
Returns the value of the Finch compass. Before using this block, be sure to calibrate the compass in the BlueBird Connector.

Finch Sound ▼
Returns the value of the micro:bit sound sensor from 0-100 or the value of the micro:bit temperature sensor in degrees Celsius. This block can only be used with a micro:bit V2.

You can access free BirdBlox programming tutorials at...

birdbraintechnologies.com/finch2/birdblox/program

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