

# HUMMINGBIRD BIT BLOCK DESCRIPTIONS

Snap!

## MOTION

Hummingbird Position Servo 1 90 °

Sets a position servo on port 1, 2, 3, or 4 to an angle from 0° to 180°.

Hummingbird Rotation Servo 1 0 %

Sets a rotation servo on port 1, 2, 3, or 4 to a rotation speed from -100% to 100%.

## LOOKS

Hummingbird LED 1 0 %

Sets a single color LED on port 1, 2, or 3 to a brightness value from 0% to 100%.

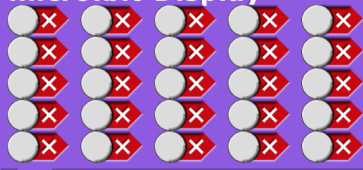
Hummingbird Tri-LED 1 R 0 % G 0 % B 0 %

Sets a tri-color LED on port 1 or 2 to the color specified by red, green, and blue brightness values. The values range from 0% to 100%.

micro:bit Print Hello

Prints letters and numbers on the micro:bit LED display.

micro:bit Display



Displays a pattern on the micro:bit LED display.

## SOUND

Hummingbird Play Note 60 for 0.5 beats

Plays a MIDI note (32-135) for a given number of beats using the buzzer on the Hummingbird.

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## SENSING

Hummingbird Light 1

Returns the value of the sensor on port 1, 2, or 3. Values for the distance sensor are given in cm, and values for "Other" are given in volts (0-5 V) . All other readings range from 0 to 100 (no units).

micro:bit Button A

Returns a Boolean value that indicates whether the selected micro:bit button (A or B) is pressed.

micro:bit Screen Up

Returns a Boolean value that indicates whether or not the micro:bit is in the selected position.

micro:bit Accelerometer (m/s<sup>2</sup>) X

Returns the value of the micro:bit accelerometer or magnetometer in the x, y, or z direction.

micro:bit Compass

Returns the value of the micro:bit compass. Before using this block, be sure to calibrate the compass in the BlueBird Connector.

You can access free Snap! programming tutorials at...

[birdbraintechnologies.com/hummingbirdbit/snap/program](http://birdbraintechnologies.com/hummingbirdbit/snap/program)