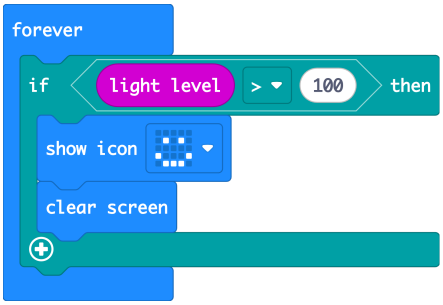
What it senses

Input Basic Logic

Senses light

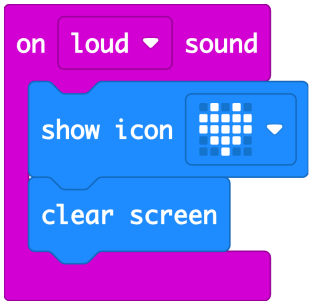


Shine a torch on the lights. If it smiles in the dark, make 100 bigger.

What it senses

Input Basic

Hears a sound



Clap near the micro:bit.

What it senses

Input Basic

Feels a tilt



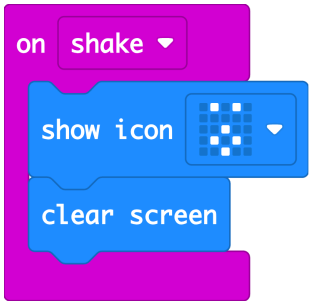


Tip it left, then right. Click the word left for more ways.

What it senses

Input Basic

Feels a shake



Shake the micro:bit.

What it senses

Input Basic

Feels a touch

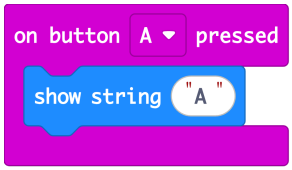


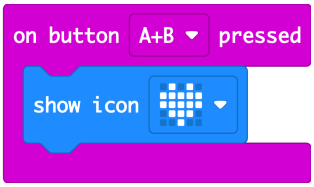
Touch the gold logo above the lights.

What it senses

Input Basic

Gets a button press



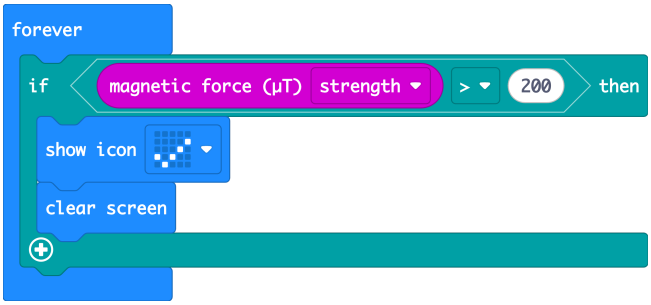


Press A, then A and B together. Click the A to choose B.

What it senses

Input Basic Logic

Feels a magnet

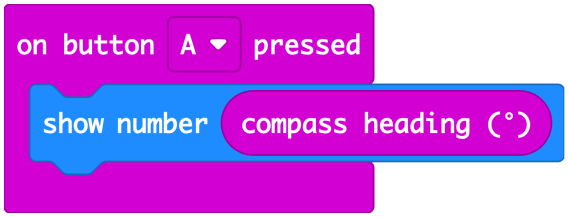


Bring a magnet close to the micro:bit, then take it away.

What it senses

Input Basic

Knows which way it faces



Press A. The first time, tilt it until the screen fills. 0 is north, 90 east, 180 south, 270 west.





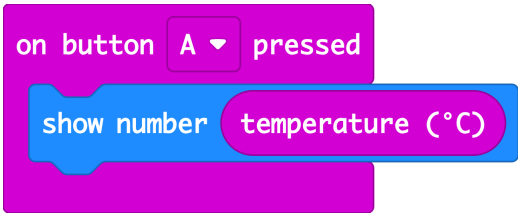





What it senses

Input Basic

Feels hot or cold

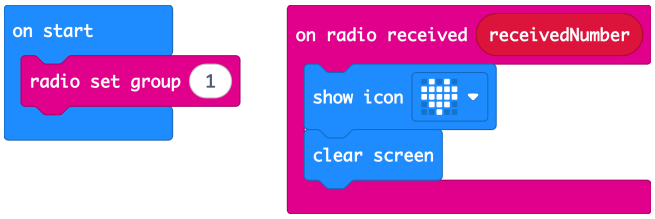


Press A for the temperature in degrees. Hold it in your hand and press again.

What it senses

Radio Basic

Gets a message

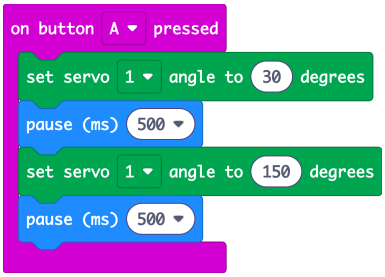


Needs a second micro:bit with the sends a message card, in group 1.

What it does

Servo Input Basic

Waves, nods or shakes

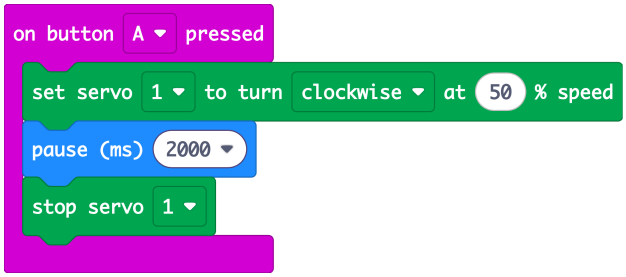


Needs the parts for a moving robot card. Press A. To join it to a sense, move the blocks inside on button A pressed into your sense's block.

What it does

Servo Input Basic

Spins round and round

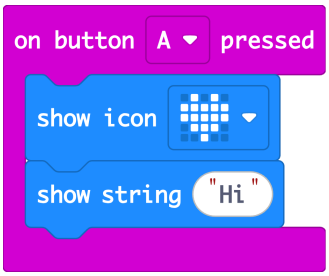


Needs the parts for a moving robot card. Press A. To join it to a sense, move the blocks inside on button A pressed into your sense's block.

What it does

Basic Input

Shows a picture or a word

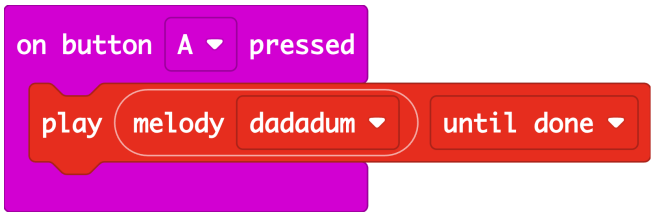


Press A. Click the heart to choose a picture. To join it to a sense, move the blocks inside on button A pressed into your sense's block.

What it does

Music Input

Plays a sound or a tune

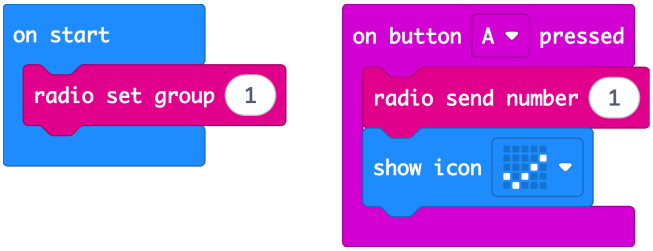


Press A. Click dadadum to choose another tune. To join it to a sense, move the blocks inside on button A pressed into your sense's block.

What it does

Radio Input Basic

Sends a message



Needs a second micro:bit with the gets a message card, in group 1. Press A.

What you need

institute of imagination

Parts for a moving robot

- **Kitronik Simple Servo Control Board**
- **3 AA batteries**
- **A 180 degree servo, to wave, or a 360 degree servo, to spin**

1. In MakeCode, click the cog, then **Extensions**. Search for Kitronik and click **Simple Servo**.
2. Put the micro:bit in the board. Plug the servo into plug 1: brown to G, red to V, orange to S.
3. Download, unplug the USB cable, put in the batteries and switch on.





