

The Flashing Heart

# Introduction

In this lesson, we will learn how to animate drawings, as well as the use of time (milliseconds) to extend or shorten the time when an image appears.

# Necessary:

* Micro:bit controller
* USB cable
* Micro:bit program or internet link in which to do programming

# Process!

1. In the program from the **basic** choose, take the blocks **forever**
2. take the command **show icon** from the same **basic** choice (in this one there are already ready-made drawings that can be selected) – choose the one in which the **big heart** is depicted.
3. choose a **pause** block with **milliseconds** to let the heart shine for a moment (you can change the amount of **milliseconds**, making sure that the heart will blink faster or slower).
4. selects the **show icon** block, this time with the **little heart**
5. sets the flashing time again.
6. Under the virtual microbit controller there is an optional bar, there will be a green arrow. When you press it, the program will be launched on the virtual microbit controller.

A screenshot of a computer

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# Challange:

Try animations with other icons as well. Create your own drawings and try animating them.

Now let's write the same thing in the **Python code**:

1. Opens a forever cycle, which means that the flicker will be all the time until the device is turned off or another program loads on it.
2. Next, record a command that displays the icon selected on the screen. They already have names in the program, so they don't need to be drawn using an array.
3. Pause so that the icon burns for a while before being replaced by another icon
4. Repeats both steps by choosing a different icon in the fourth line of code
5. Closes the forever cycle

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