

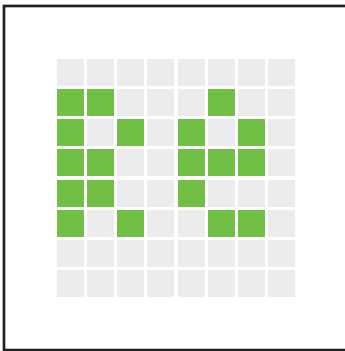
WORKSHEET W017

MICROPHONE

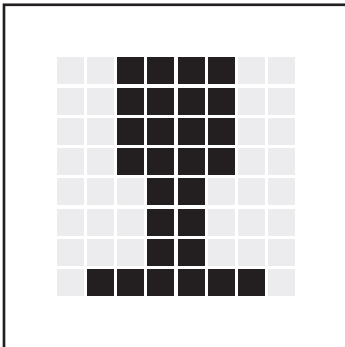
This worksheet introduces you to the microphone.

EXERCISE

Turn your Oxocard into a recording device that lets you record and play back at the touch of a button. Visualize your program with icons and scrolling texts.



If you press the left button the green scrolling text «Record:» appears, then the Oxocard records.

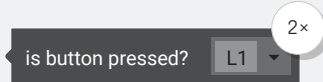
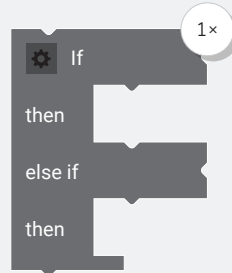


While the microphone is recording, an icon should light up.

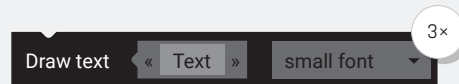
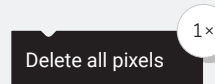
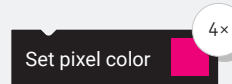
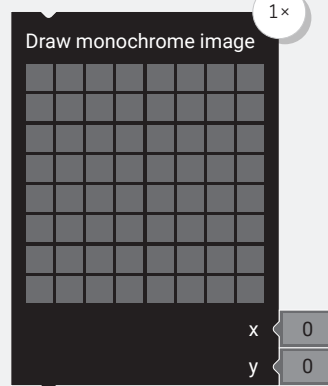
HINT

Use the «Record» and «Playback» blocks from the Microphone category. You can spice up your program by using scrolling texts and icons to show the user what is happening.

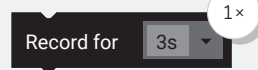
LOGIC



MATRIX



MICROPHONE



PARTS LIST LIST OF BLOCKS TO BE USED



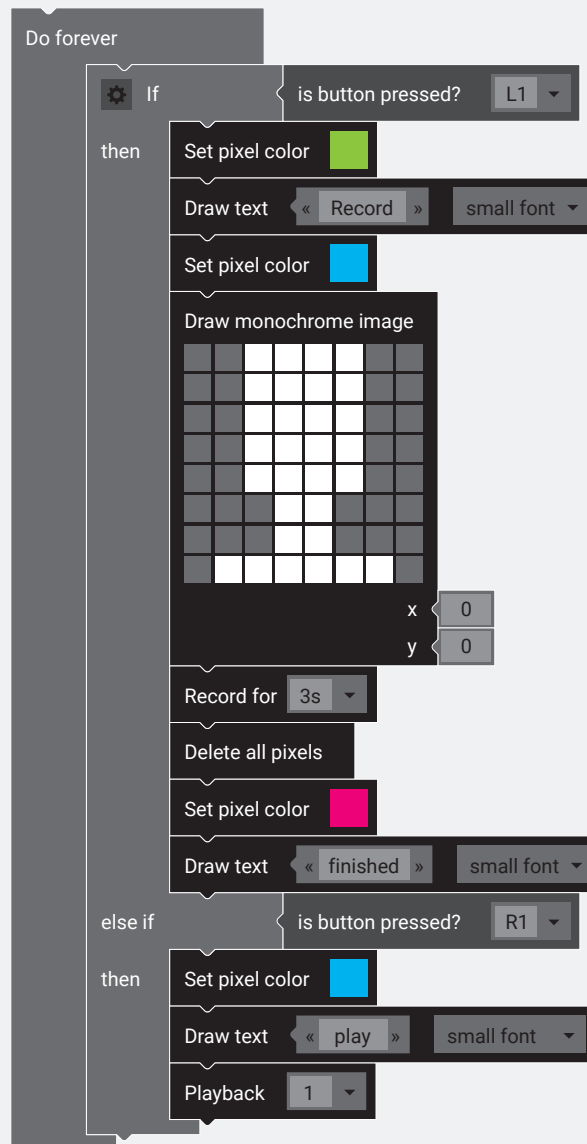
LEVEL INTERMEDIATE

WORKSHEET W017

MICROPHONE

SOLUTION

PROPOSED SOLUTION



WORKSHEET W017

MICROPHONE

Learning objective:

Capacity to program the Oxocard so that it can record and play back.

WHAT TO DO

1. First the «Do forever» loop is needed. All blocks must be positioned in this loop.
2. When the left button is pressed, the recording should last for 3 seconds.
3. This can be visualized by displaying the scrolling text «Record:» and a microphone icon. After the recording a «finished» label could be displayed.
4. If the right button is pressed, the recording will be played back.
5. This can also be visualized by drawing the scrolling text «Play:» beforehand.

NEW COMMANDS

Record for 3s

After this block the Oxocard microphone records for a selectable time from 0.25 to 3 seconds.

The program does not continue during this time. Since audio data requires a relatively large amount of memory, the maximum recording time is limited to 3 seconds.

Playback 1

This block plays the previously recorded one. In the drop-down menu you can choose between playing once or infinitely often.

This is a non-blocking command. The program continues to run during playback.

ADDITIONAL INFORMATION: MICROPHONE

The microphone on the Oxocard is located at the top between the USB and audio interfaces. As with a headset, the microphone must be placed as close as possible to the mouth in order to pick up voices clearly.

