

1 - Games

Added libraries:

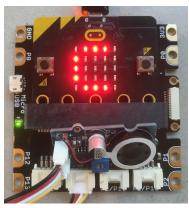


This game lets you create and play short tunes. Select piano keys as letters with button A (where is a rest). Store them using button B, then press A+B to play the list of notes as a tune. Shake to reset.



Select note

Attach any piezo or speaker.



Store note

```
when started
                      when button A+B - pressed
                                                 define play-tune
 attach buzzer to pin 0
                       play-tune
                                                  for note in tune
reset
set beat 		to 500
                                                      note = _
                             define reset
 set octave → to 0
                                                    comment rest for a beat
 wait beat millisecs
           list E D C D E
                              else if 🌑
                              display character C
 play-tune
                                                    display character note
                                                    play note note octave octave for beat ms
when button A 🔻 pressed
                           acceleration > 280
 change key ▼ by 1
                       comment shake to erase tune
   key > 8
                       reset
  set key v to 1
 display character | item | key
                         of notes
                                       add more notes to the song?
```

to list tune

This script uses five variables: beat, key, notes, octave, and tune. A sample tune plays when you start the script. Can you

add item key of notes



2 - Simon

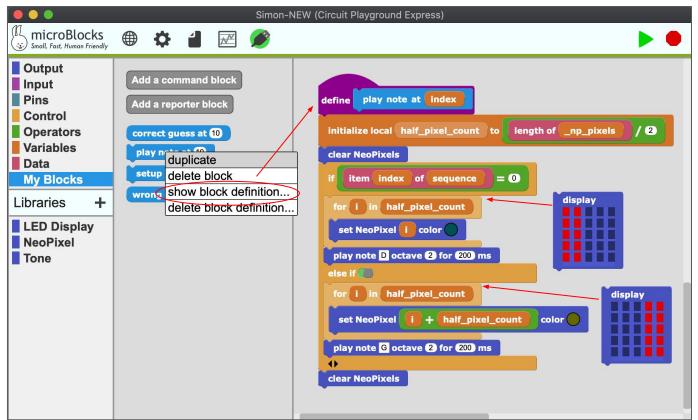
From File => Open, in the Games folder, load "Simon (Circuit Playground Express)".

```
Simon (Circuit Playground Express).ubp
Simon (ED1).ubp
Simon (microbit).ubp
```

```
when started
attach buzzer to pin ①
attach 10 LED NeoPixel strip to pin 15
broadcast go!
```

Add "attach buzzer" and update "attach NeoPixel" (optional) to use the correct pins. Then start the script and get ready to play!

To customize it further, edit the "play note at" function. Because it is hidden by default, right-click and select "show block definition...". Put display blocks into each "if" branch (another clue). Also, see if you can add a happy face on the LED Display to show when you win!



Challenge: Try modifying other example games to add music and colorful LEDs to the fun.