

USER MANUAL

The wav_play.gb is a Gameboy DMG with a Raspberry Pi heart.
As part of the interactive workshop in the third semester of Sound & Music Production the Pyquencer was created: an 8-16 Step Sequencer.

Following students were involved in this project:

Joan Schonne Dondelinger

Alina Rolheiser

Milan Tausch

Jannes Götz



GENERAL

SEQUENCER:

For each column, ongoing called step, you can select the **type** (drums, keys, FX, synth), a **bank** for an instrument, an **octave** and three **notes**. On the first page there are the first 8 steps. If desired the next 8 step, i.e. in total 16 steps, can be displayed on the second page. You can also use this option to layer two sequences and let them play at the same time. This always can be changed in the settings.

PRESETS:

It is possible to save up to 12 sequencer projects in the preset slots provided. These 12 preset slots can also all be played in a loop which serves as another way to showcase your creativity. The end product can also be exported as a .wav file via the ‘Export’ button. This may take a few seconds. The exported .wav files are then located on the USB stick in the ‘Songs’ folder.

SETTINGS:

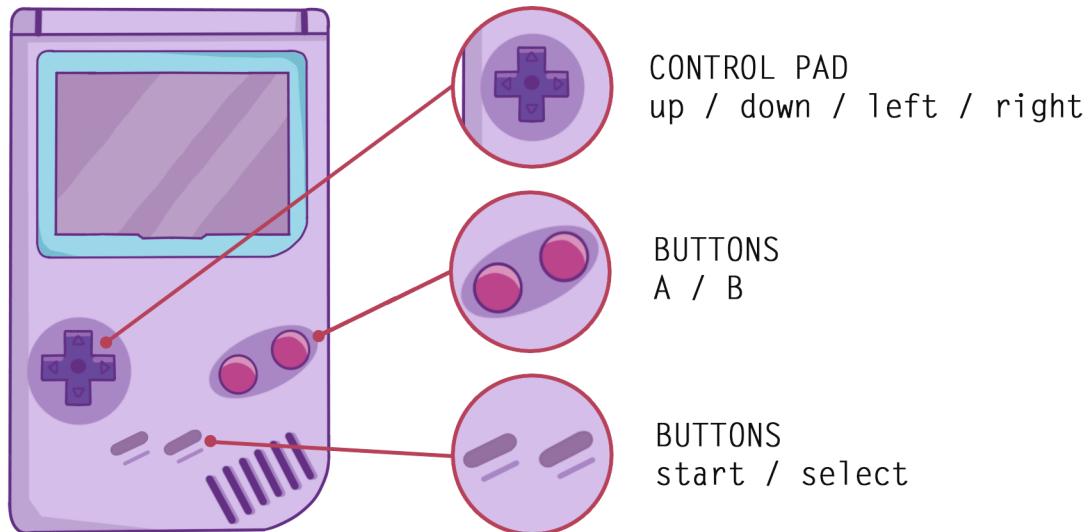
In the settings you can change the BPM, fade-in and -out of the samples, the number of steps (1-16) and the option of two layered sequences. There is also the option of setting a track offset, i.e. a delay in %, for the second sequence.

SHUTDOWN:

The shutdown in the menu is used to properly shut down the device. As long as the green LED on the back of the Gameboy is still on, the device **must not** be switched off!

As soon as the LED is off the on/off switch on the top of the Gameboy can be toggled.

BUTTON ASSIGNMENT



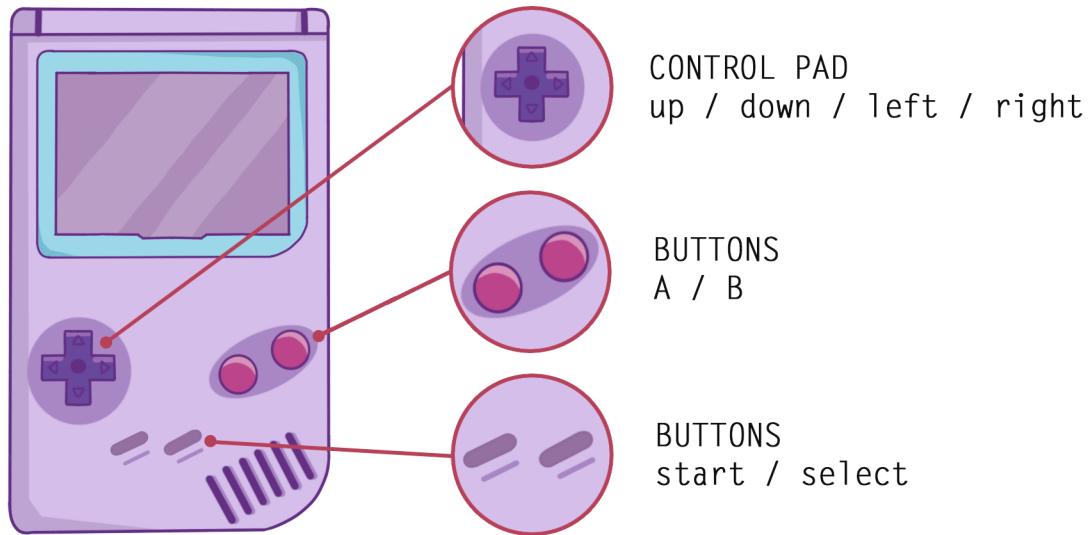
IN THE MENU:

- | | |
|-----------|-----------------------------|
| up / down | ▷ navigate through the menu |
| start | ▷ confirm your selection |
| B + left | ▷ decrease volume |
| B + right | ▷ increase volume |

IN THE SEQUENCER:

- | | |
|---------------|--|
| control pad | ▷ navigate through the step sequencer |
| A + B + left | ▷ copy selection onto the previous step |
| A + B + right | ▷ copy selection onto the next step |
| A + up | ▷ edit selection to the next type/bank/oct/note |
| A + down | ▷ edit selection to the previous type/bank/oct/note |
| A + select | ▷ deleting the selection |
| start | ▷ play the whole sequence (<i>stop: press start again</i>) |
| select | ▷ play the selected step one time |
| B | ▷ back to the menu |

BUTTON ASSIGNMENT



IN THE PRESETS:

- control pad ▷ navigate through the presets
- start
select ▷ play all presets (*stop: press start again*)
▷ play the selected preset one time
- A + start
A + select ▷ save current sequencer loop
▷ load selected preset into the sequencer
- EXPORT ▷ A ▷ export as .wav file
- B ▷ back to the menu

IN THE SETTINGS:

- down ▷ to the next setting
up ▷ to the previous setting
- A + up ▷ increase value by 1
A + down ▷ decrease value by 1
A + right ▷ increase value by 10
A + left ▷ decrease value by 10
- B ▷ back to the menu

IMPORT NEW LIBRARY

To import a new library please follow this tutorial:

https://drive.google.com/file/d/1C1H6kquds7mq3DRfPcLtxPm_HVsCCpV/view?usp=sharing

The video can be found on the USB stick as well.

USB RECOVERY

If you have starting problems with this error code

„[Errno 2] No such file or directory“

please follow this tutorial to fix the error:

<https://drive.google.com/file/d/1TUyqNTd4eWpZEEU4k1E7Xh4F56jGAF1j/view?usp=sharing>

The video can be found on the USB stick as well.