

4 speaker setup

In this example we work with Reaper, Focusrite interface, 4 speakers, windows desktop.

The idea is to place the speakers in a square position so you can hear the audio coming from different directions.

Software to be installed:

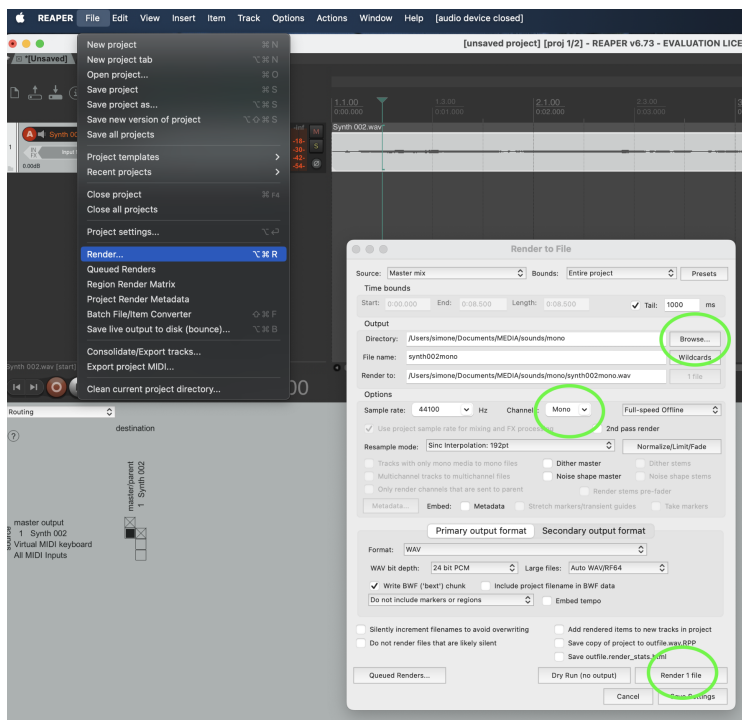
Reaper we work with Reaper because its free and relatively easy to setup, but there is more software to use for 4 channel setups (like Ableton or Isadora), depending on your needs

Focusrite control software (make sure you choose for the right device, Focusrite interfaces come in different types and versions which all have own control software environment)

Work with mono files

In most conventional audio setups we use 2 channels (left and right) and the audio source file is stereo (2 channels). Since we use a 4 speaker setup, we use 4 audio tracks in Reaper. Thus we have to use a mono (1 channel) audio file. Each mono file will be placed in one of the 4 single channels of reaper. If your source file is stereo you need to convert your files to mono first.

With Reaper follow this short tutorial <https://www.youtube.com/watch?v=jLr0FPxd3K0&t=20s>
Save the file:



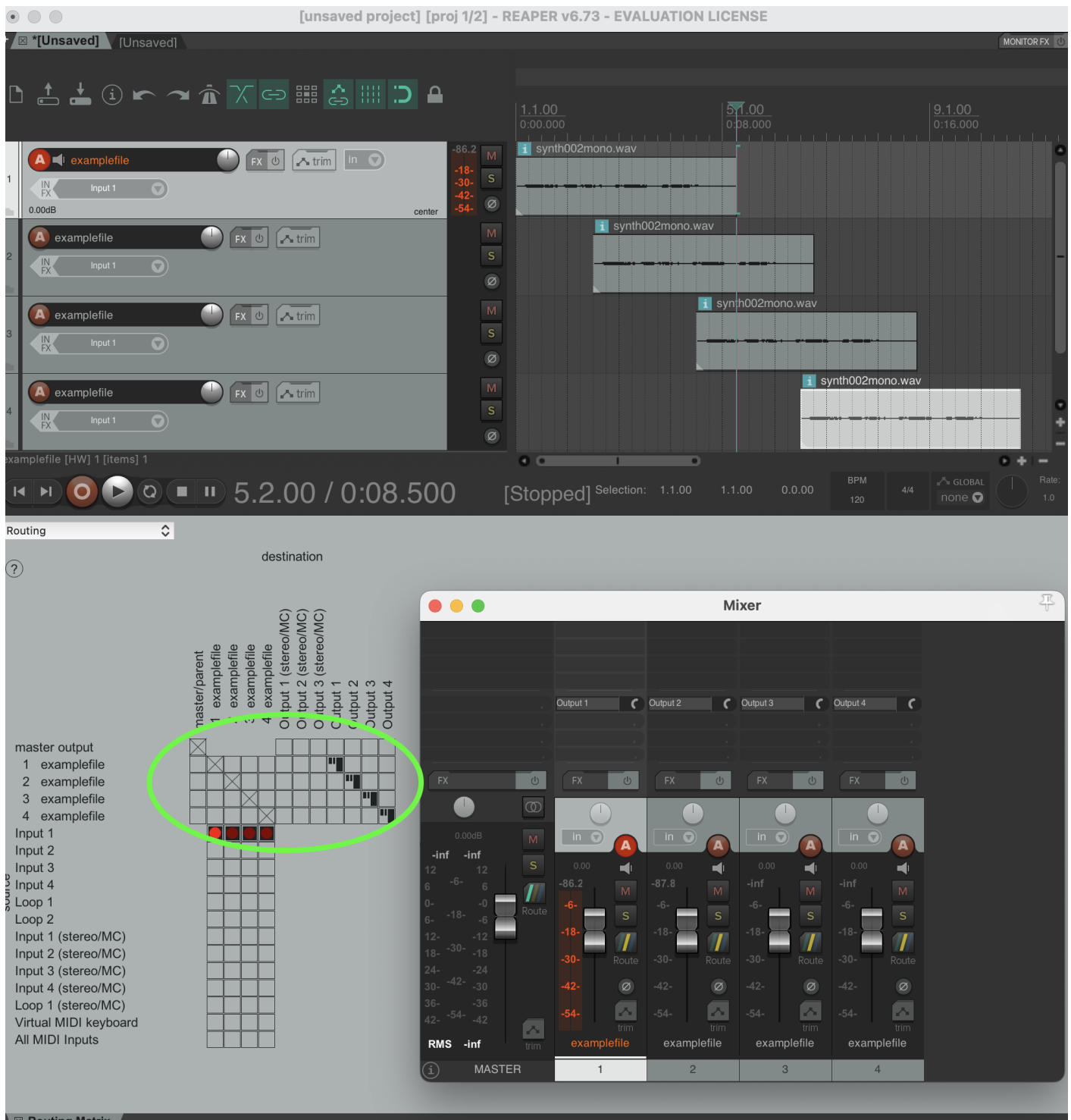
Connect Focusrite interface

In the Output Routing tab Change stereo Monitor en Line outputs to mono by clicking [stereo]

In Menu > Reaper > settings you should be able to locate Audio Device > Scarlet (your Focusrite interface), choose Apply & OK

View > Routing Matrix & Mixer

In the Routing Matrix change your settings so it looks like this:



Now you should be able to play your audio through the 4 channels.

In the Focusrite control software you can adjust the level of volume of the different channels. change 3 & 4 so it matches 1 & 2.

Next step might be to automate the volume levels of the audiotrack from other software with MIDI or OSC... depending on the software you use in conjunction with Reaper. Any requests? Send an email to blackbox.ibb-pastoe@hku.nl & blackbox.oudenoord@hku.nl we'll get back to you on that!

Revision #5

Created 29 August 2024 12:39:48 by Simone

Updated 5 September 2024 11:08:07 by Tjerk