

How to record MIDI output generated by Harmony Improvisator using FL Studio.

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To be able to record the MIDI output generated by Harmony Improvisator you'll need the following programs:

- Your DAW, in this example we'll use **FL Studio**.
- **MIDI-OX** (available at from <http://www.midiox.com>)
- **MIDI-Yoke** (also available at from <http://www.midiox.com>) this will be our virtual midi patch cable.
- **MTX2MIDI** is required in case you use MIDI-Ox to record the output (also available at <http://www.midiox.com>).

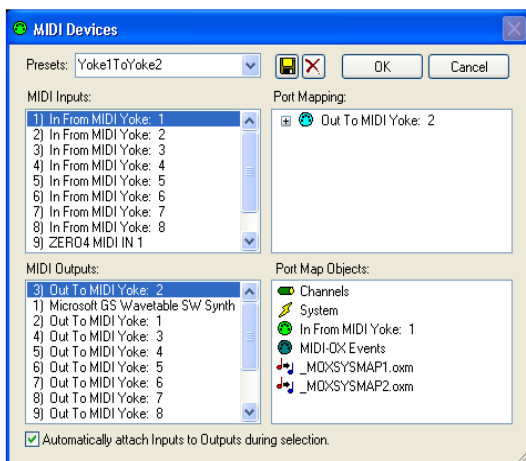
Install all of them in your system before continuing.

What we are go do is to output the midi notes generated by Harmony Improvisator trough a virtual MIDI port created by Midi Yoke and then record this output with Midi-Ox. We could go another different way, instead of using Midi-Ox for recording we could use another DAW software to record the output as long as you configure it to receive MIDI data from the same Midi Yoke virtual output port.

1 .- First thing to do is to **configure MIDI-Ox to route Midi Yoke Input 1 to Midi Yoke Out 2**, why this? Well the point is simple, you could not use the same input and output because your MIDI application will go crazy or freeze because of the feedback. As the MIDI-Ox author says:

*"... you should **never, ever**, open the same MIDI Yoke port number as both input and output within a single application -- it is suicidal to do so. When this happens, any MIDI message sent to the output port is immediately routed back to the input port, which is then sent out the output port and immediately routed back to the input port... I think you get the idea: **MIDI Feedback!**"*

so open Midi-Ox and go to Devices, set the input to In From MIDI Yoke and the output to Out to Midi Yoke 2, save the preset if you want. You'll end up with something like this.

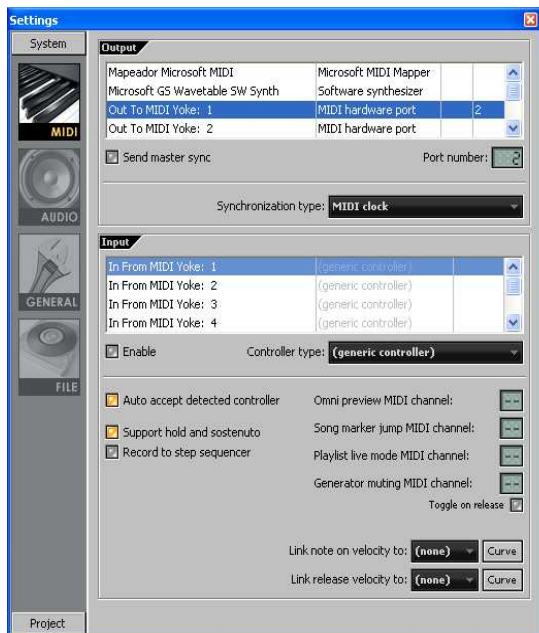


Now Minimize Midi-Ox (don't close it).

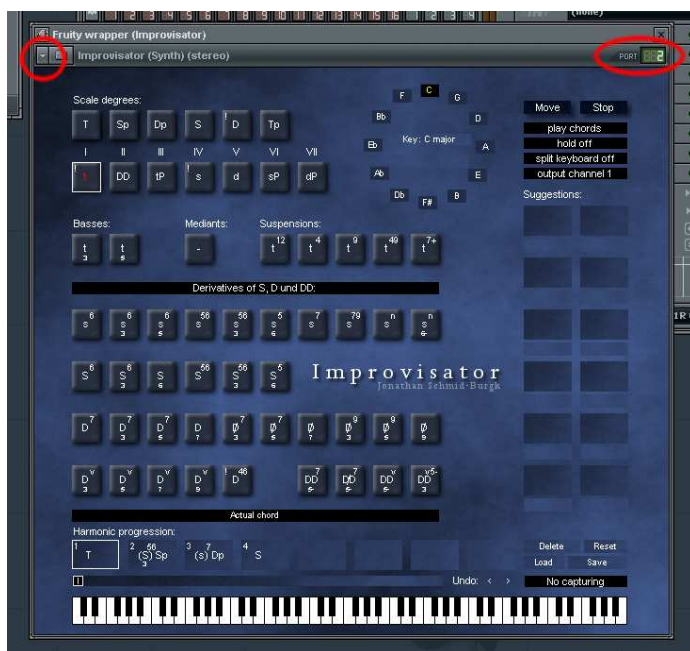
2.- Init your FL-Studio and goto to **Options/Midi**.

In the input MIDI list **activate MIDI Yoke In 1 in port number 2**, you could use other port number as long

as you don't use it for other MIDI devices. In our example we'll be using port 2. So you'll have something like this:



3.- Now you can open your FL Studio project in which you've created the harmony you want to record, for more references on how to do this please check the documentation that come with Harmony Improvisator. Click on the little arrow located at the upper left of the VST wrapper and click in 'Show MIDI output port', then go to the right and set the port number to 2 as seen on the following screen.



By doing this we are telling the plugin to send it's MIDI output to Midi Yoke Input 1.

You're almost ready to start recording now you've two options.

Option A

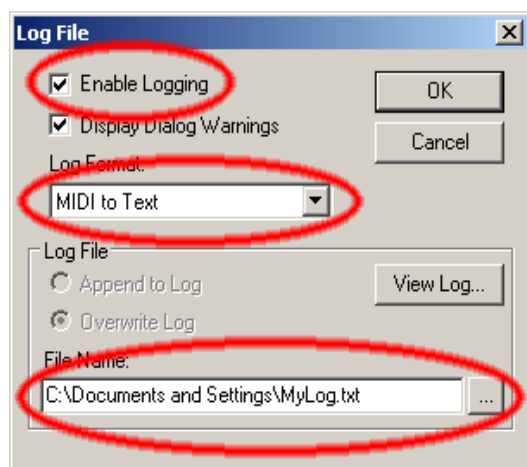
Use Midi-Ox to record the output to a txt file and then convert this file to MIDI, this will allow you to load the notes in your DAW.

Option B

Use another DAW to record the output. I don't have another DAW installed on my system but in theory the process could be resumed as selecting Midi Yoke Output 2 as your MIDI device in your DAW and record it as if you were playing it live. You could stop reading if you choose this option

4.- By using Midi-Ox monitoring capabilities we'll be able to record the Midi output to a MXT file and then convert this file to MIDI with and external tool called **MTX2MIDI**.

Go back to Midi-Ox and press the icon  a dialog box appear, configure it like this:



This changes the output format of MIDI-OX, also remember to tell Midi-Ox where you want your MTX to be located after recording.

You're almost done, you may wish to clear the log before you start to record anything. Now go back to FL Studio and press play, when you want to stop recording press stop :) .

Go back to Midi-Ox, if everything went right you'll see the output in the log screen of Midi-Ox.

You can close Midi-Ox and locate your MTX file, now right click on it and press 'Convert to MIDI' (notice you'll need to have MTX2MIDI installed in your system for this option to be available.

5.- Load the newly created Midi in your FL Studio by importing it or by dropping the file to a new channel. And that's all you'll see the notes on the Piano Roll, load a good instrument on this channel and play.

Final Notes: *If you now a better way of doing this without having to use Midi-Ox or by directly recording inside FL-Studio please let me know because I've tried it in many ways but without success.*

