



# Anvil Studio Tutorial

## Creating Patch Libraries for Anvil Studio

An Anvil Studio Patch Library describes the banks of sounds a particular synthesizer can generate. A patch library does not add new sounds to your synthesizer – it just tells Anvil Studio how to access the sounds already contained in the synthesizer. The patch library maps names like Piano, Violin, etc. to MIDI Bank and Program numbers. This allows you to assign an instrument like Violin to a track by clicking the Instrument or Device column in Anvil Studio's View / Mixer screen.

Follow these steps to create a patch library for an external MIDI synthesizer.

1. If you don't already have the optional Pro-Mix accessory, you can buy it and download it from [www.AnvilStudio.com](http://www.AnvilStudio.com) and pressing the button **Order Accessories**.  
If you already have it, it will be displayed when you select the menu **View / Installed Accessories**.
2. Select the menu **View / Synthesizers**.
3. Press the button **Add a Synthesizer**.
4. Select the MIDI Synthesizer tab.
5. Type a name that describes the synthesizer, e.g. *Kurzweil PC88*
6. Select the MIDI Port the synthesizer is connected to.
7. Change the field General MIDI to **Patch Library**.
8. Press the button **Create a new patch library of type**. This causes a window like this to appear

Patch library that describes synthesizer: PC88

Global properties MIDI Programs Controls

Patch Library's Path:

Synthesizer's name:

Bank Select Method:

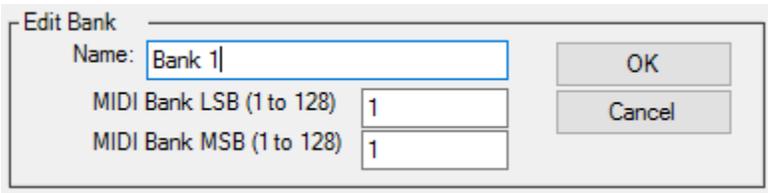
Transpose:

Latency in milliseconds:

General MIDI Drums (always uses MIDI Channel 10 for drum sounds)

9. You can usually leave all fields on the Global Properties page as they are, and select the MIDI Programs tab.
10. In that tab, press the button **Add bank**.
11. Referring to your synthesizer's MIDI Implementation documentation, enter the bank's name, and its MIDI bank number, which includes a LSB (least-significant byte) and MSB (most-significant byte), both of which range from 1 to 128. If your document shows numbers that range from 0 to 127, just add one to them.

Press OK when the screen looks something like this:



Edit Bank

Name: Bank 1

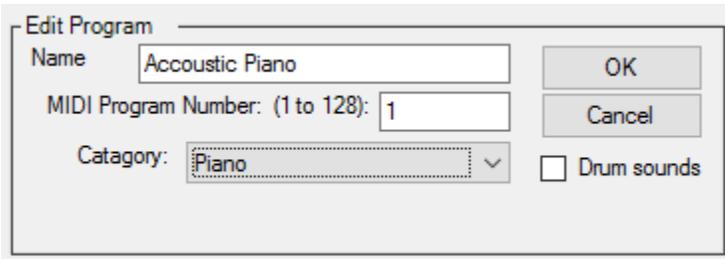
MIDI Bank LSB (1 to 128) 1

MIDI Bank MSB (1 to 128) 1

OK

Cancel

12. Press Add program, and enter the requested fields, and press OK.



Edit Program

Name Accoustic Piano

MIDI Program Number: (1 to 128): 1

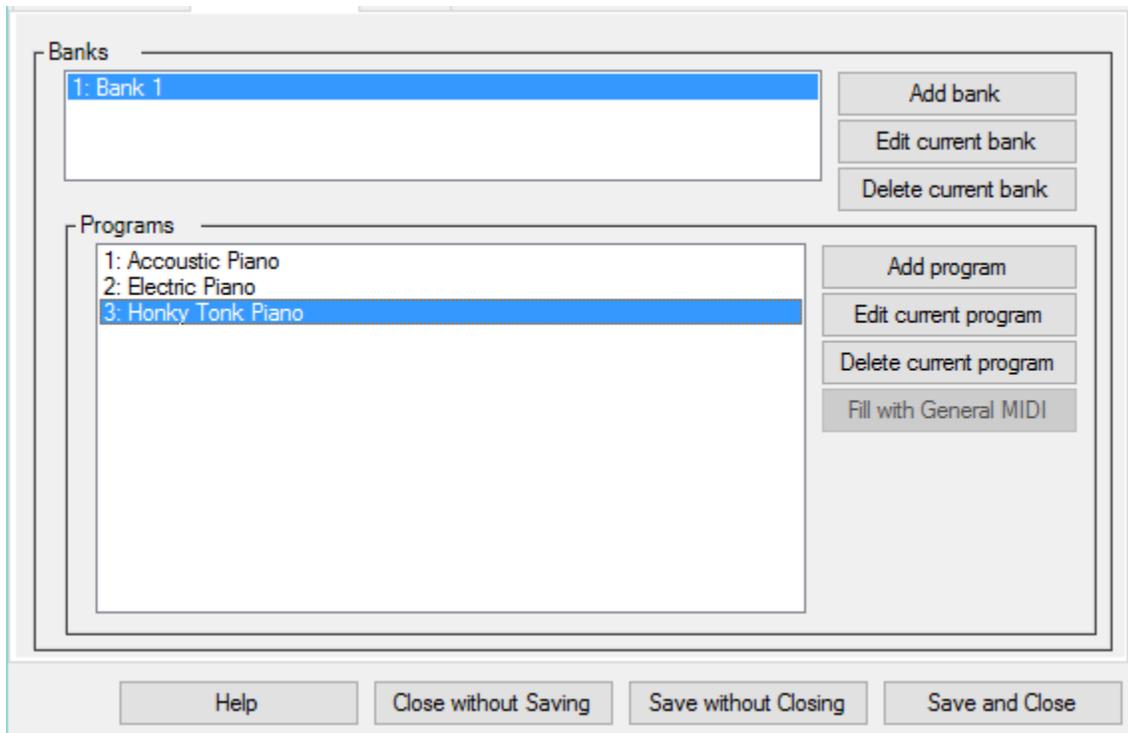
Category: Piano

Drum sounds

OK

Cancel

13. After you have added a few programs, the screen will look like this:



Banks

1: Bank 1

Programs

1: Accoustic Piano

2: Electric Piano

3: Honky Tonk Piano

Add bank

Edit current bank

Delete current bank

Add program

Edit current program

Delete current program

Fill with General MIDI

Help

Close without Saving

Save without Closing

Save and Close

14. You can continue adding Banks and Programs they contain. When you are finished, press **Save and Close**. You will be prompted to enter the filename where the patch library should be saved. You don't need to add them all at once. You can add the programs you use most often, and add more later by selecting View / Synthesizers, select the synthesizer, and press **Edit Patch Library**.