DEEPCHANGER

A tool for manipulating Behringer's DeepMind 6/12/12D SysEx files

1. Introduction

Behringer's DeepMind is truly a work-of-art in the synthesizer's world: it's reliable, has got a well crafted keyboard and the user interface is very straightforward. Not to mention all the software you can dowload for Apple devices or computers in general, which allow a better comprehensions (and editing) of all the sounds.
But it has one significant flaw: you cannot change the destination of the SysEx files.

Let's explain better: if you download a wonderful patch made by one of those incredible synth maniacs outside there on the Internet, you'll be forced to install it on the **bank** and **number** (the position) which the author decided. If a moving pad has been crafted on position *A-1*, just to make an example, you'll have to overwrite the *A-1* position on your synth but it's a pity you'll have to remove that wonderful lead patch (e.g.) you have right there, isn't it?
DeepChanger was born to fix this problem and many others.
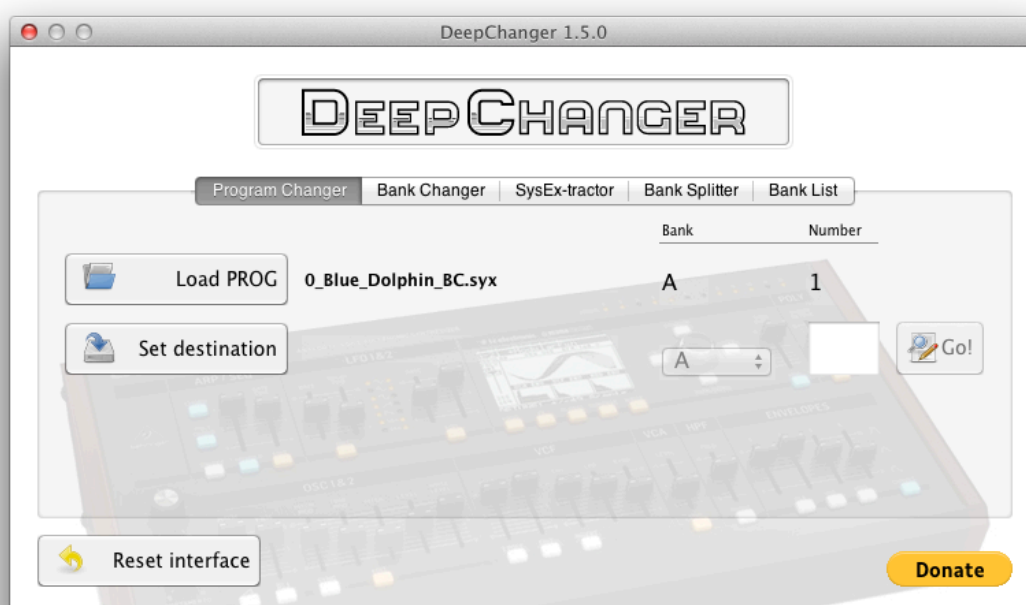As I'm writing this little document, the tool is able to:

- *change* the original destination of a **program**

- *change* the original destination of an entire **bank**

- *take out* a single program from a specified bank

- *split* an entire bank into single programs

- *create* a list of the programs written inside a bank

The program is available for MacOS, Windows and Linux operative system, both in 32bit and 64bit versions: it doesn't need an installer so it's a portable application.
It's free and it will always be but a donation is truly well accepted.

Let's dive into the user interface and learn to use this very simple tool.

2. "Program Changer"

The function available on the first tab on the left was the very first reason this application exists: to change the destination of a desired program after having bought it from patches creators on the Internet or simply to have less disorder on the synthesizer.

First of all the user is allowed only to load a single SysEx program: the original bank and position are displayed on the right side. After having done this, the "Set destination" button is enabled, in order to make the user set a save file.
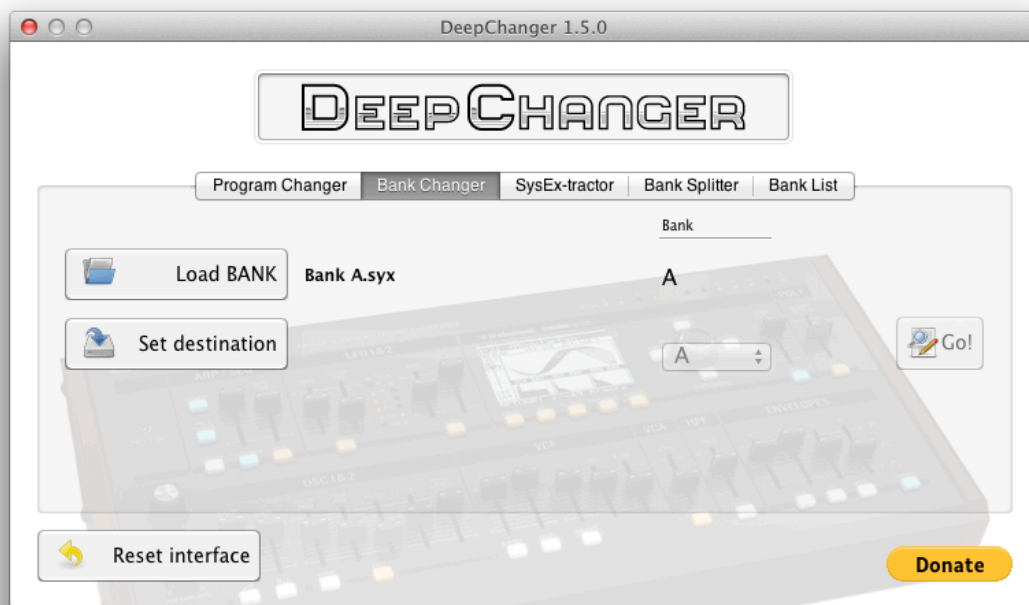
Now it's possible to choose the newly desired bank (from the drop-down menu) and the position number.

When the user press Return, the "Go!" button is enabled and, by means of clicking it, the procedure is completed: a brand new SysEx file with a different destination.

Note:

Please keep in mind that, every time, it's possible to return to the initial program state just by pressing the "Reset interface" button. This works for all the routines written in this program: the interface is simple but quite self-explaining and it tries to drive the user in a strong way to avoid make mistakes

3. "Bank Changer"

This part works quite like the above one except it changes an **entire bank** destination, for the same reason as above.

The very same procedures are taken: load a bank, set a destination file, decide a new bank letter and press the "Go!" button.

Simple as Do-Re-Mi.

Note:

You will notice that the program doesn't allow you to overwrite the same program or bank: this is not an error but a precise choice I've made: I don't want the user to discard accidentally one of the patches or banks by mistake.

It's always better to work on copy of files, much more if the files are small like SysEx ones!

4. "SysEx-tractor"

SysEx-tractor is a very handy tool, according to me: when I listen to YouTube demos of synth patches creators, some are very good while some other less. But, very often, they sell the entire set and not only the sounds we're interested in.
Have we to overwrite an entire bank just for a fantastic bass sound, for example?!?
Certainly not, and that's why I've implemented the SysEx-tractor.

Load a bank and the content is shown on the list on the right.
Double click on the patch you are willing to extract, set a destination file and click "Go!".
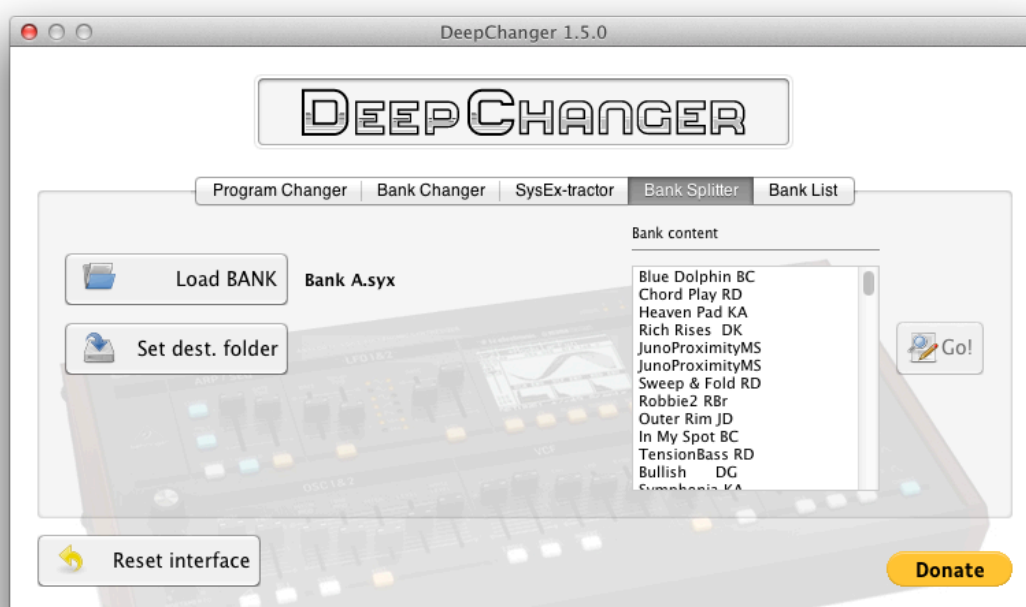If you accidentally choose the wrong sound, don't worry: you can always revert by mean of pressing the "Reset interface" button below.

Note:

Do you know there is an "Infos" menu up there?
It opens a new window with some more informations, together with a changelog that explains all the things that have been modified during the developing of this project that took me hours to complete.

5. "Bank Splitter"

The "Bank Splitter" works in a similar way to the SysEx-tractor but it's intended to mantain order in the synth.

This routine takes a bank (the content is displayed on the right), then the user chooses a directory where to "unpack" all the programs contained inside.

The always present "Go!" buttons does the trick.

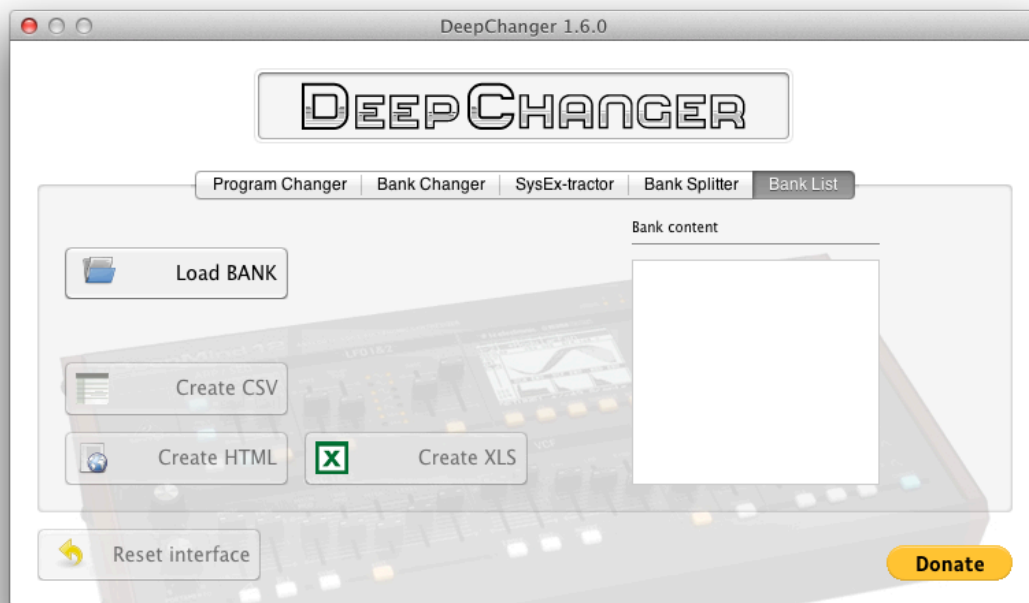I thought this function might be useful for archiviation and better SysEx handling on a computer.

Note:

There is an interesting little menu item up there called "Preferences...": the only thing it does is to allow you to chose a MIDI receive channel for SysEx, in order to match the one you set on your DeepMind.

The reason for this is very simple: some patches creators use the default DeepMind editor for desktop computers but it writes SysEx's files in a way that it's impossibile to send them directly to your device using SysExLibrarian or other tools.

This routines is a sort of workaround.

6. "Bank List"

This routine allows the user to create a comma-separated-values file, an HTML or an Excel one, containing a list of all the programs inside a bank.

It's useful if you want to keep a list of all the sounds you have to use in a concert, if you are a synth patches creator, if it's simpler for you to deal with paper and you prefer to take instant notes on patches according to your feelings and sensations.

I'm one of those guys and I needed that thing so here it is! :-)

The CSV and XLS files can be opened with Excel, Numbers, LibreOffice or other spreadsheets and be modified easily whilst the HTML one is less easy to edit and created for those who wants just a "decent" appearing list.
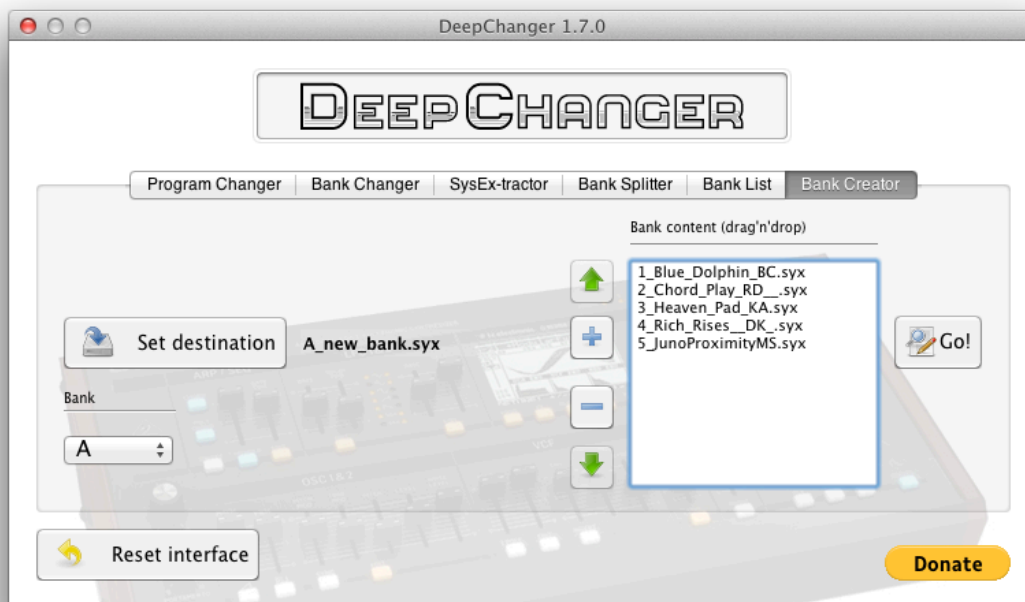
Note:

Didn't I mention there is always a "**Donate**" button?

The program is free and it will always be: all the future updates will come at no charge at all but I've spent hours, truly, to make this thing work.

If you press that button you will be sent to a PayPal page where you can be free to donate me any sum you prefer, there are no limitations in the lower or upper side.

7. "Bank Creator"

This tool has been crafted with the idea in mind of creating a continous set of instruments to be played in concerts or gigs.

"But there's already the favourites list, isn't it?"

Well, yes and no: even if it exists such a feature, the favourites list is handled very basically by Deepmind, in sequential order from position A-1 to H-128. You cannot move, e.g., the patch G-3 in the very first places of that list, it's impossible.

"But I can do the same thing with DeepMind Editor, from Behringer!"

Even if in this case the answer would be "True", the fact is that handling this kind of thing with that editor is not so straight-forward, so I thought a solution of mine.

The usage is very easy: you can drag'n'drop multiple programs inside the little listbox on the right, or one-by-one if you wish by pressing the "+" button among the middle of the window. Once done this, you can even move up or down, with the relative buttons, the patches in their positions, or remove then with the "-" button in case of mistakes.

By pressing the usual "Set destination" button you'll be asked where to write the new bank, with the abilty of choose the bank position with the drop-down menu below.

Just press "Go!" and the process is finished.

8. Final words

Maybe you can think that the interface could have been different, with some other colors or another approach to files handling.

Don't forget that I'm not a programmer, this is not my work: I'm a merchant for living.

I just fell in love with my DeepMind 12 but the limitations written on page 1 forced my hand in finding a solution: this is the way I chose.

A simple user interface, **strongly** driven in order to avoid mistakes, a look that's good to me, an application without an installer that works on the majority of the operative systems.

This software is not affiliated or related in any way to Behringer, Microsoft, Apple and/or their subsidiaries.

It comes "as-is" with no warranty at all: use it at your own risk.

I'm not responsible for any damage it may occur on your devices, even if I really doubt this could ever happen.

Surely there are bugs or other things that won't work properly in certain situations: if you encounter a bug I ask you to send a mail to info@riccardosantato.net and explain the problem. I'll try to fix it as soon as I can.

If you want to donate some money, please use the PayPal buttons in the user interface.

The application is free, you can include it in your file collections but you're not allowed to change it in any way or claim the property.

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