Manual

Tools for Korg Workstations PCG and Related Files

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Online version: **https://www.dropbox.com/s/wohq6smdndjnfb0/Manual.docx**

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List of Internet Links

Category	Link Name / Decription	Link URL
Newsletter / updates	PCG Tools Newsletter	http://eepurl.com/u5Hk5
Installer	PCG Tools Installer	https://www.dropbox.com/s/g0aaqsnw71godzt/PCG%20Tools%201.6.0.zip
Manual	PCG Tools Manual, online version	https://www.dropbox.com/s/9d8y8tcyar693zs/Manual.pdf?m
Newsletter / updates	PCG Tools Newsletter	http://eepurl.com/u5Hk5
Forum	PCG Tools main discussion thread	http://www.korgforums.com/forum/phpBB2/viewtopic.php?t=63765
Social media	FaceBook	http://www.facebook.com/pcgtools
Social media	Google Plus	http://www.googleplus.com/pcgtools
Social media	Twitter	www.twitter.com/pcgtools #pcgtools
Mac	Windows emulator for Mac OS X, Linux, Solaris	https://www.virtualbox.org/wiki/Downloads
Mac	Windows emulator for Mac OS X	http://www.vmware.com/products/fusion/features.html
Mac	Windows emulator for Mac OS X	http://www.parallels.com
Windows	Generic Windows Shortcut Keys	http://support.microsoft.com/kb/301583
.NET	Microsoft .NET Library Installer	http://www.microsoft.com/download/en/details.aspx?id=17718
.NET	Microsoft .NET 4.0 Standalone Installer	http://www.microsoft.com/en-us/download/details.aspx?id=17718
Installer	Authenticode information	http://technet.microsoft.com/en-us/library/cc750035.aspx
Installer	PCG Tools Trust	http://www.korgforums.com/forum/phpBB2/viewtopic.php?t=71495&watch=topic&start=0&sid=d7663dc8ef5c793d095cef9a08107034
PCG Tools for Web	Partial web based version of PCG Tools discussion thread	http://www.korgforums.com/forum/phpBB2/viewtopic.php?p=448479#448479
PCG Tools for Web	Partial web based version of PCG Tools main web site	http://pcg.webberig.be
Korg Forums	Korg Forums, Main thread	http://www.korgforums.com
Korg Forums	Korg Forums, Korg Kronos main thread	http://www.korgforums.com/forum/phpBB2/viewtopic.php?t=63765
Korg Forums	Korg Forums, Korg Oasys main thread	http://www.korgforums.com/forum/phpBB2/viewtopic.php?t=63766
Korg Forums	Korg Forums, Korg Krome main thread	http://www.korgforums.com/forum/phpBB2/viewforum.php?f=63
Korg Forums	Korg Forums, Korg M3 main thread	http://www.korgforums.com/forum/phpBB2/viewtopic.php?t=64081
Korg Forums	Korg Forums, Korg M50 main thread	http://www.korgforums.com/forum/phpBB2/viewtopic.php?t=64028

Korg Forums	Korg Forums, Korg Triton Classic main thread	http://www.korgforums.com/forum/phpBB2/viewtopic.php?t=64748
Korg Forums	Korg Forums, Korg Triton Studio main thread	http://www.korgforums.com/forum/phpBB2/viewtopic.php?t=64747
Korg Forums	Korg Forums, Korg Triton Extreme main thread	http://www.korgforums.com/forum/phpBB2/viewtopic.php?t=63994
Korg Forums	Korg Forums, Korg Triton LE main thread	http://www.korgforums.com/forum/phpBB2/viewtopic.php?t=64749
Korg Forums	Korg Forums, Korg Triton Rack main thread	http://www.korgforums.com/forum/phpBB2/viewtopic.php?t=64923
Korg Forums	Korg Forums, Korg Karma main thread	http://www.korgforums.com/forum/phpBB2/viewtopic.php?t=64924
Korg Related	Cifraclub (Portuguese)	http://forum.cifraclub.com.br/forum/8
Korg Related	Korg site	http://www.korg.com
Korg Related	Kid Nepro	http://www.kidnepro.com/KN/Korg/Korg.html
Korg Related	Korg Patches	http://www.korgpatches.com
Korg Related	Kronos Haven	http://www.kronoshaven.com
Korg Related	Robert Rosen	http://robertrosen.weebly.com
Korg Related	Onksor	http://www.arweiler.onlinehome.de/onksor.html
Korg Related	Kronoscopie	http://www.kronoscopie.fr
Korg Related	Kronos-mw	http://kronos-mw.com
Korg Related	Karo Sound Development	http://www.karo-sounds.com
Korg Related	Kronos AL-1 Editor	http://www.chrutil.com/kronos
Korg Related	Basari Studios	http://www.basaristudios.com
Korg Related	AL-1 Editor	http://www.chrutil.com/kronos
Donators	Keller12	http://www.keller12.de
Donators	Dreamland Recording Studio	http://www.dreamland-recording.de
Donators/Translators	Supernatural Heroes	http://www.thesupernaturalheroes.com
Donators	Toon Martens Projects	http://www.toonmartensproject.net
Donators	Imprezariat	http://www.imprezariat.pl
Translators	Yuma	https://soundcloud.com/#rmyuma
Shop	Oostendorp Muziek	http://www.oostendor-muziek.nl
Shop	Muziekhuis (Music House) Lyana	http://www.lyana.nl
Donators	Toon Martens Project	http://www.toonmartensproject.net
Third Party Tools	Source Code Management	https://github.com
Third Party Tools	Source Code Management	http://sourceforge.net/projects/gitextensions
Third Party Tools	Source Code Management	https://www.assembla.com
Third Party Tools	MailChimp	http://www.mailchimp.com
Other Tools	Core FTP	http://coreftp.com

Table 1: List of Internet Links

List of Email Addresses

Person / Company	Email Address
Michel Keijzers / MikeSoft	mailto::michel.keijzers@hotmail.com

Table 2: List of Email Addresses

List of Abbreviations

Abbreviation	Description
ASCII	American Standard Code for Information Interchange
BRng	(Pitch) Bend Range
Cmb	Combination.
Combi	Combination.
CSV (file)	Comma Separated Value (file)
EDS	Enhanced Definition Synthesis, synthesis engine used by Korg M3 and M50.
EDS-X	Enhanced Definition Synthesis - Expanded, synthesis engine used by Korg Krome.
EXI	A model/physical engine to create sounds, not (principally) based on samples.
Fav	Favorite
FTP	File Transfer Protocol
GM	General MIDI
GUI	Graphical User Interface
HD1	High Definition 1, synthesis engine used by Korg Oasys and Kronos workstation models.
HI	Hyper Integrated, synthesis engine used by Korg Triton and Karma workstation models.
I / Int	Internal program or combi bank
KARMA	Kay Algorithmic Realtime Music Architecture
MIDII	Musical Instrument Digital Interface
OSC	Oscillator
PCG	Programs, Combis, Global
Porta	Portamento
Prg	Program
Pri	Priority
SNG	Song
Sta	Status
Trans	Transpose
U	User program/combi bank
UI	User Interface
Vel	Velocity
Vol	Volume
XML	Extensible Markup Language
XSL	Extensible Stylesheet Language

Table 3: Abbreviations

Glossary

Term	Description
ASCII Table	Table with control code characters and characters like 0..9, a..z, A..Z a and special symbols.
Banks Listview	The left list shown in the PCG file which is active when a thick grey box is drawn around it. It contains the banks of the selected type.
Bend Range	See Pitch Bend Range.
Broken combi or set list slot	A combi or set list slot is called broken, when a used program/combi is unintentionally changed or overwritten.
Category	Programs and combis are grouped in categories (and depending on the workstation model, sub categories).
Clearing	Clearing a patch is similar to initializing a patch (on a workstation), but only sets certain parameters and sets an empty string instead of e.g. "INIT COMBI".
Combi	A combination of 8 or 16 timbres (depending on the workstation model)
Combi Bank	A bank of 128 combis.
Comma Separated Value (file)	File with columns, split by columns which can be used for importing in spreadsheets, like Microsoft Excel©.
Command	A command is an action that can be selected to be performed.
Compacting	Compacting patches removes all empty selected patches down and all nonempty selected patches up.
Complete PCG File	A PCG File that contains the complete contents of the PCG information of a workstation model.
Copy	The command to select patches for copying patches to another location.
Cut	The command to select patches for moving patches to another location.
Delete	There is no Delete command, patches can either be cleared or can be compacted.
Dialog	A window that needs to be closed before continuing with the application.
DropBox	Sever where the installation and manual of PCG Tools can be downloaded.
Effect	An effect can be used to alter a patch and is added at the end of the signal chain.
Empty Patch	A patch with an empty name, this does not have to mean it is inaudible.
Erase	There is no Erase command, patches can either be cleared or can be compacted.
Error Dialog	A dialog to notify the user of a problem that occurred while performing a command.
FaceBook	Social media site
File Transfer Protocol	A protocol for communication for transferring files, in our case PCG files over ethernet.
General MIDI	A standardized set of 1 or more program banks which contain the same predefined set of programs.
Global MIDI Channel	The MIDI channel the workstation itself is assigned to.
Google Plus	Social media site
Init Patch	A patch that is initialized, assigned to default values and containing the word 'INIT' in its name.
Instrument Definition File	A file that contains a patch list to be used for (external) sequencers, e.g. Cubase®.

Internal Bank	Banks denoted as I-A to I-G or INT-A to INT-D and considered internal banks with predefined programs/combis (although can also contain user defined programs/combis).
Internal Memory	Internal workstation Memory, which contains the programs, combi, global info and depending on the workstation model more info.
KARMA	Generates MIDI data based on algorithms, can be seen as an advanced arpeggiator.
Language	Language used by the GUI.
Layer	Multiple programs that are assigned to the same key/velocity zone.
Memory	Computer Memory, which is the RAM memory of the computer which is used.
Keyboard Zone	The range of keys in which a timbre is audible.
MIDI	A communication protocol that let musical devices (including computers) communicate with each other.
MIDI Channel	The channel on which a related item is assigned to, can be 1 to 16.
Modeled Program	A program that is created by a non sample based engine, like Moss or one of the EXIs of a Korg Oasys or Kronos.
Oscillator	Repeat waveform that is the basis of a sound.
Paste	Storing (a part of the) copied patches to a destination.
Patches List View	The right list shown in the PCG file which is active when a thick grey box is drawn around it. It contains the patches of the first selected bank.
Patch	Another name for a program, combi or set list slot.
PCG File	A file that contains programs, combis and global information (and more).
Pitch Bend Range	The range of the frequency for moving the joystick in the X direction.
Portamento	When playing legato, the frequency gradually moves toward the new key (frequency).
Pri	Priority of a timbre.
Program	A sound that contains up to two oscillators.
Program Bank	A bank of 128 programs.
Read Only	A bank that is read only cannot be modified/written to (e.g. the GM program banks).
Sample	A waveform that is the base of a sound.
Sampled Program	A program that is based on samples (a program created with the AI2, EDS or HD1 engine).
Semitone	A half tone, e.g. the difference in pitch between a c and c#.
Sequencer	A built in feature of a workstation or an external application for creating songs.
Set List Slot	One of the 128 slots inside one set list which refers to a program, a combi or a song.
Set List	A list of 128 set list slots. There are 128 available in the Korg Kronos. A set list can be seen as a bank for set list slots.
Social Media	Social media sites, used as platform for discussing and making announcements about PCG Tools.
Song	A musical piece that can be recorded in some workstation models and stored in the internal memory.
Split	Multiple programs that have a different key zone on the same keyboard of a work station.
Status	Status of a timbre.
Timbre	A part of a combi which can reference to an external board, can be switched or (normally) references to a program.

Transpose	The shifting of a timbre in semitones.
Twitter	Social media site
Velocity Zone	The velocity range in which a timbre is audible.
Warning Dialog	A dialog to notify the user of something to take into account.
Work Station (Model)	A type of work station, e.g. Korg Triton Extreme, Korg M3, Korg Kronos.
Workstation Dependent Feature	Some features are not available on all workstation models.
XML File	A file that contains data which can be used for being shown in a browser or use as export file for other applications.
XSL File	A file that defines how the associated XML file should be visualized.

Table 4: Glossary

Manual History

Version	Date	Changes
1.0.0	10-Apr-2012	Initial version.
1.1.0	6-May-2012	- Added Cut & Paste functionality. - Added external links. - Added more extensive application setup information. - Added list of internet links and email addresses. - Added history/changes.
1.3.1.	14-Jul-2012	- Added Assigned Clean Program for cleaning timbres in Combi Window. - Added external links/donators. - Added chapter about standalone installation and installation path. - Added splash screen and special events. - Changed screen shots of new GUI look. - Added information about setup/installation problems. - Added screenshots/info about incompatibility between workstations. - Added favorite column for set list generator patch lists. - Added settings menu. - Added remark about Triton and Korg workstation model names. - Added remark about copying between Korg M3 and Korg Triton files.
1.4.0		(manual was not updated for version 1.4.0).
1.5.0		(manual was not updated for version 1.5.0).
1.6.0	20-Feb-2013	- Adapted links, terms, abbreviations, foreword, wish list, issue list and all items from version 1.4.0 to 1.6.0.

Table 5: History Changes

Foreword

Thank you

… for showing interest in this application and reading the manual. In this manual I try to explain all functionality that is covered by PCG Tools and also add tips and examples to make it more worthwhile to read through this manual.

History

Around May 2011, this application started as a small challenge being performed in a few days time. A forum member at http://www.korgforums.com posted a thread about a missing feature that exists in Korg workstations for decades.

When changing a program, all combis using that program will be changed too. The missing feature is that one cannot know easily by which combis (or set list slots in case of a Korg Kronos (X)) a program is used. The only solution is to go through all combis (and set list slots) and check if the program is inside the timbres list or being referenced by the set list slot. With the Kronos (X) having the possibility of thousands of combis and set list slots this is an impossible task to do manually.

Since I am a professional software engineer and I was very interested in the Korg Kronos (X) as 'upgrade' for my Korg M50 and Triton Extreme, and because I wanted to learn more about a certain programming language (C#) professionally, I wrote in the forum I could write a small application that could generate a list of all programs together with all combis and set list slots it was used in. I wrote I could do it in a day but I needed two.

That small 'application' was what now is the base of the List Generator, part of the PCG Window and part of the complete PCG Tools application. The first version was published in the begin of July, 2011.

Present

Now, about 18 months later, the application has gained a lot more functionality, I am the proud owner of a Kronos, I learned a lot about the programming language and more than 900 Korg owners (I assume) are using this application. Besides, I learnt a lot about Korg workstations by being active in www.korgforums.com, and have very nice contacts with a lot of Korg owners and participants of that site. Also, I have good contacts with some employees inside the Korg company.

Currently, the base of the application is an application where both multiple PCG and Song (SNG) files can be used. The application not only can generate lists, but serves as a Librarian and even a bit as an Editor.

The first version was only supporting the Korg Kronos, the current version supports all recent Korg workstations, like the Korg Kronos, Korg Kronos X, Oasys, Korg Krome, M3, M50, all Tritons and the Karma.

And for software insiders: the first version of this application started with about 500 lines, the current code has around 30,000 lines and still is growing.

Thanks

This application would never have been such a success with help of others. The following people/teams (in random order) have greatly helped me.

Sharp and other moderators at KorgForums.com: Due to this forum website, my application received a lot of attention and he helped me out with gaining even more exposure.

Korg R&D Product Manager Dan Philips: He answered numerous questions, forwarded my sometimes detailed questions to other employees of Korg. He arranged valuable documentation to speed up certain parts of this application.

Korg Product Manager Rich Formidoni: He answered also numerous questions and gave me the encouragement to continue.

Korg R&D Software Engineer Steve Pavao: He answered several specific questions with detailed answers and provided a lot of in depth information to speed up the programming of my application.

KorganizR for adding some features for PCG Tools: drum kits, wave sequences and the PCG file content lists (part of the set list generator).

McHale and Phinnin, forum members of KorgForums.com: without their help and help from various other members I was not as far as I would be now. Especially during the time I did not have a Korg Kronos myself, they tested a lot of test versions and spent a lot of time helping me analyzing the structure of PCG files.

Mathieu Maes for starting the development of a web based version of PCG Tools and for the beautiful PCG Tools logo he created.

Francois Rossi for his thinking about internationalization in general and the French translation. And all other translators who made several languages present: Honza, Yuma, Mathieu Maes, .Jens, Rubens Felicio, Bekawe and MarPabl.

Vanni Torelli for his great theme I could use to look the screens better, for his improvements in the GUI and his help with the source code management system.

All beta testers, some already mentioned above and further JimKnopf, Cello, PpublicDuende, rs.felicio, AdDeRoo and MattGerassimof for testing the application and proofreaders and manual who helped me to improve the quality of the application and manual. Also everyone who sent helpful additions, ideas, compliments and bugs.

I also want to thank xadet, the coordinate/project member from WPF Multiple Document Interface, which I used for the external library to display multiple windows.

Furthermore, I want to thank the members of the Assembla project, which is a great tool for managing versions and online storage of source code.

Also, I like to thank the members of GitHub, which is a great version system for source code.

Besides these people, I would like to thank MailChimp because of the possibility to send the PCG Tools newsletter for free to all subscribers.

And last of not least donators of my application. It means a lot to me that this application is seen as a useful and valuable tool.

Future

I get regularly wishes to add new features or improve features for PCG Tools. The list can be found at the end of this manual in chapter 13 (Wish List) which contain a quite long ordered list of items that people have asked for or what I consider worthwhile.

However, the list is growing harder than I can implement, so probably not all will be implemented in the end, but the application will grow gradually in the future.

1 About PCG Tools

1.1 Relation to Korg.com

This application is not affiliated with Korg neither with KorgForums or any other company/website. This means that Korg does not decide the content of either the manual or the features of the application, nor should they be contacted for info, wishes, requests or other questions about this application or manual.

1.2 Acquiring the application / PCG Tools Newsletter

A free copy (including future updates) can be simply acquired by subscribing to the PCG Tools newsletter at http://www.eepurl.com/u5Hk5

There is only one application which supports all supported Korg workstation models.

The Newsletter will be used mainly for announcing new versions of PCG Tools or the manual (including the needed password) and for very important messages about PCG Tools. Probably it will be sent not more than twice a month at maximum.

1.3 Contact

You can contact me by sending an e-mail at the address above for bug reports, ideas, wishes and all remarks related to PCG Tools. However, for more generic wishes, ideas etc. it's best to write on the KorgForums site for PCG Tools at http://www.korgforums.com/forum/phpBB2/viewtopic.php?t=63765 or to the PCG Tools FaceBook page: http://www.facebook.com/pcgtools .

1.4 Web site

PCG Tools does not have a dedicated website, but at www.korgforums.com there are several threads that serve as public communication channels between users and the developer.

The main PCG Tools thread can be found at:

http://www.korgforums.com/forum/phpBB2/viewtopic.php?t=63765

1.5 Supported workstation models

In Table 6 the Korg workstation model specific threads are shown.

Korg Model(s)	Thread
Korg Kronos and Kronos X	http://www.korgforums.com/forum/phpBB2/viewtopic.php?t=63765
Korg Oasys	http://www.korgforums.com/forum/phpBB2/viewtopic.php?t=63766
Korg Krome	http://www.korgforums.com/forum/phpBB2/viewforum.php?f=63&sid=5d1685cf831c6224bda61b92c2be81b2
Korg M3	http://www.korgforums.com/forum/phpBB2/viewtopic.php?t=64081
Korg M50	http://www.korgforums.com/forum/phpBB2/viewtopic.php?t=64028
Korg Triton Classic	http://www.korgforums.com/forum/phpBB2/viewtopic.php?t=64748
Korg Triton Studio	http://www.korgforums.com/forum/phpBB2/viewtopic.php?t=64747
Korg Triton Extreme	http://www.korgforums.com/forum/phpBB2/viewtopic.php?t=63994
Korg Triton LE	http://www.korgforums.com/forum/phpBB2/viewtopic.php?t=64749
Korg Triton Rack	http://www.korgforums.com/forum/phpBB2/viewtopic.php?t=64923
Korg Karma	http://www.korgforums.com/forum/phpBB2/viewtopic.php?t=64924

Table 6: PCG Tools threads at KorgForums

1.6 Social Media

PCG Tools is also active on several social media sites.

1.6.1 FaceBook

On FaceBook, there is a page for PCG Tools called 'PCG Tools' at (www.facebook.com/pcgtools. The page PCG Tools is mainly for announcements and discussions regarding PCG Tools.

1.6.2 Google Plus

On Google+ (http://plus.google.com), a discussion forum/announcement page is created.

1.6.3 Twitter

On Twitter, PCG Tools also is active with the hash tag: #PcgTools and the URL is www.twitter.com/pcgtools .

1.7 Donations

Although PCG Tools is free, if you think this application is worthwhile to you, saving you time or otherwise useful and you like to donate some money, please consider sending a donation. The donation button can be found in the About box (Help menu, About menu item).

Paypal is selected because it is a secure site (although they charge a small fee for their services).

People who donate, can also send a link and/or logo which I will add in the External Links window in the About menu within PCG Tools.

Btw, the hours I worked at the application are not counted but must be somewhere between 500 and 1500 hours.

2 About the Manual

2.1 Introduction

This manual will be regularly updated, however screenshots will only be updated every now and then. This means that there might be small differences in the screen shots and the actual application, but never in such a way that the explained features are not explained well enough.

2.2 Online Version

This manual is also accessible online at:

https://www.dropbox.com/s/9d8y8tcyar693zs/Manual.pdf?m

Chapter 3 (Overview) shows what is possible with PCG tools. It gives an overview of the main features and also handles system requirements and setup.

Some settings from timbres, used in a combi are not supported by all workstation models.

[NOTE]: From this page, workstation dependent features are not mentioned explicitly unless it does not clutter up the text.

Chapter 4 (

Korg Files) contains a description of what a PCG and SNG file is and an explanation of the contents of these files. If you are familiar with these files, you can skip this chapter (although some global terms are explained which are used heavily in the manual and application).

Chapter 5 (Workflow) describes the way how to use this application in relation to (the) Korg workstation(s), how to get the PCG file from the Korg workstation to the computer into this application and back to the workstation.

Chapter 6 (Main Screen) handles the main screen and generic options, how to load and save files for example.

Chapter 7 (Using PCG Files) handles PCG files and the list generator for PCG files and is the largest part of the manual.

Chapter 8 (Using SNG (Song) Files) handles SNG files and what is possible with these files.

Chapter 9 (Q & A and Trouble-Shooting) shows a list of frequently asked questions & answers and solutions for problems you could encounter while using this application.

Chapter 10 (Keyboard Usage & Shortcut Keys) shows a list with all shortcut keys and how to make selections faster by using default Windows behavior that might not known by every user.

Chapter 11 (Installation of Core FTP LE) explains how to use an FTP program with the Korg Kronos (X).

Chapter 12 shows the complete version history of PCG Tools.

Chapter 13 contains the complete wish list … some items will end up in PCG Tools, most will not due to time shortage.

Chapter 14 contains the known issues. Most of them are not a problem bit difficult to solve; some are somewhat nasty, but a workaround is available.

2.3 Conventions

During this manual several special keywords are used, shown in brackets. The meaning is explained in Table 7.

Keyword	Meaning
[BACKGROUND]	Shows background information, not necessary for understanding the paragraph.
[KRONOS (X) ONLY]	This keyword means the feature is model dependent for the specified workstation model(s), check paragraph 3.5 for a complete list. It only is used when a complete paragraph or part is dependent on a workstation feature. Note that where the Kronos is mentioned, also Kronos X is meant.
[TIP]	A tip explains a possibly non trivial usage of this feature.
[WARNING]	Reason why to be careful to use this feature.
[NOTE]	A message that is not directly coupled to this feature/section.
[EXAMPLE]	Example.

Table 7: Convention keywords

Chapter 2 - About the Manual

All website reference and email addresses in this manual are hyperlinked, meaning you can click them with the Control key together with the left mouse button to navigate to the link (in your default browser) or sending a mail (with your default email application).

3 Overview

3.1 Solutions for managing PCG and SNG files

3.1.1 Introduction

PCG Tools consists of several parts. The major part handles PCG files. With PCG Files, the following main functionality is possible:

- List generator, which is capable of generating all kind of useful lists.
- Librarian functionality, which is capable of (re)arranging and modifying programs, combis and set list slots. Drum kits and wave sequences are shown but are not editable.
- Editor functionality to edit (certain) parameters inside programs, combis and set list slots.

The Librarian and Editor functionality are seamlessly connected.

Also some functionality regarding song (SNG) files is available.

For each of the main functionalities, solutions are given to show what it can be used for.

3.1.2 List Generator solutions

The list generator can give you answers on the following questions and wishes:

- I would like to have a voice name list that contains all (or certain) of YOUR programs, combis and/or set list slots.
- I want such lists in alphabetical order, ordered by category/sub category or ordered by Bank/ID.
- I want to be able to open these lists in Excel or in a(n internet) browser.
- I also want to make lists that are printable, to be used as set list for a gig for example.
- I want to change a program, but I do not want to break a combi. How do I know which programs are used by which combis?
- How do I know which programs and combis are used in which set list slots? **[KRONOS ONLY]**
- Do I have (almost) identical patches in my file and where are they?
- I want to have an overview at a glance for all timbres and its most important parameters of one or more combis.
- I know part of the name of a patch but I cannot remember its location. I even don't know if it was a program, combi or set list slot. Where can I find it (or them)?
- I have marked programs and combis as favorite, but I want to have a list of them. **[KRONOS ONLY]**
- I have a PCG file and want a summary of what is inside it, which banks are filled and what ranges within each bank.

3.1.3 Librarian solutions

For the librarian functionality, the following wishes can be performed:

- I want to move one or more programs up or down but I do not want to break any combis or set list slots they are used in.

- I want to move one or more combis up or down but I do not want to break any combis or set list slots they are used in.
- I want to move one or more set list slots up or down. **[KRONOS ONLY]**
- I want to clear one or more patches.
- I have removed a lot of patches, and I want to remove the created gaps (by moving all used patches up).
- I want to copy one or more programs inside my PCG file or from one PCG file to another.
- I want to copy one or more combis inside my PCG file or from one PCG file to another including all the programs used by those combis.
- I want to copy one or more set list slots inside my PCG file or from one PCG file to another including all the programs and combis used by those set list slots. **[KRONOS ONLY]**
- I want to move patches inside my PCG file and automatically fix all references from combis or set list slots referencing the moved patches.
- I want to make a PCG file that only consists of the copied combis including their used programs.
- I want to make a PCG file that only consists of the copied set list slots including their used programs and combis (and the programs used in those combis). **[KRONOS ONLY]**
- I want to see which drum kits are available and where.
- I want to see which wave sequences are available and where.

3.1.4 Editor solutions

For the editor, the following wishes are granted:

- I want to use a PC keyboard to change the name of a program or combi.
- I want to use a PC keyboard to change the description of a set list slot **[KRONOS ONLY]**
- I want to use returns in the description of a set list slot to format the text better. **[KRONOS ONLY]**
- I want to change the category and sub category of a patch.
- I want to mark or unmark the favorite setting of a program or combi. **[KRONOS ONLY]**

3.1.5 Additional solutions

- I want to make an instrument definition file of my own file for use in Cubase™.

3.1.6 Song (SNG) files

For song files, the following wishes are possible.

- I want to see at a glance which songs are inside an SNG file.
- I want to see at a glance the name and file locations of the user samples used in my SNG file.

3.1.7 External Links pages

- A lot of external links (URLS) are shown, for people having donated money, people helped with translations, also Korg related sites and some music shops..

3.2 What is not possible with this application?

Simply said, it cannot do what is not written above, but some of them are:

- It is not possible to copy patches from one model to another (e.g. copy patches from a Triton to an Oasys or vice versa). The reason is that the engines, sample data and/or parameter value(s) are different from model to model).
- It is not a DAW or has any integration with a sequencer. Korg has announced to publish this functionality in their Kronos Editor and for most other workstation models DAW integration is already available.
- It is not an editor for changing every possible parameter. Korg has announced to publish this functionality in their Kronos editor and for most models an Editor is already available.

3.3 System Requirements

This application uses the DotNet Redistributable Framework 4 which is installed automatically during setup. This library (thus PCG Tools too) needs the system requirements shown in Table 8.

Supported operating Systems	Windows 7, Windows 7 SP1 Windows Server 2003 SP2 Windows Server 2008, Windows Server 2008 R2 Windows Server 2008 R2 SP1 Windows Vista SP1 Windows XP SP3
Supported architectures	x86, x64
Minimum memory	At least 512 MB Ram
Processor	Pentium with at least 1 GHz
Hard disk space	X86: 850 MB[1], x64: 2GB[1]
Needed application	Internet Explorer 5.0.1 or equivalent browser

[1]Only if Microsoft DotNet Framework 4 is not already installed, otherwise the hard disk space required is negligible.

Table 8: Windows System Requirements

3.3.1 Non Windows Computers

If you have a Macintosh, Linux or other system, you need to have a Windows emulator application. Table 9 shows a list of a few emulators/virtualization software that can be used.

Platforms	Application Name	License	Website
Windows, Mac OS X, Linux, Solaris	VirtualBox	Free	https://www.virtualbox.org/wiki/Downloads
Mac OS X	VMWare Fusion	Paid	http://www.vmware.com/products/fusion/features.html
Mac OS X	Parallels	Paid	http://www.parallels.com

Table 9: Virtualization Software for non Windows platforms

If you do not want to use a Windows emulator for whatever reasons, take a look at the next paragraph.

3.3.2 Web version of PCG Tools

There is a web version of PCG Tools, currently with limited functionality but under development, but is fully platform independent.

It is developed by Mathieu Maes and more information can be found at

http://www.korgforums.com/forum/phpBB2/viewtopic.php?p=448479#448479

and the application can be found at

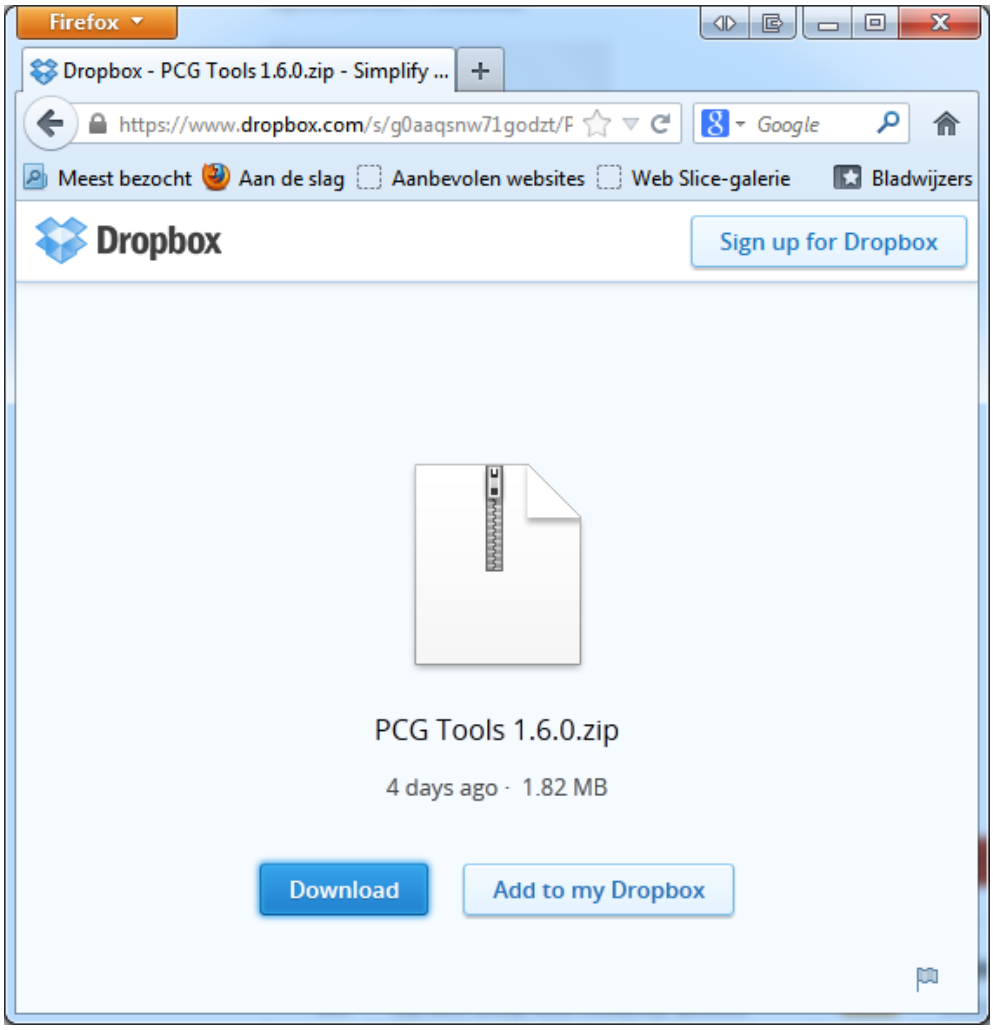
http://pcg.webberig.be

3.4 Setup

Below every step for an installation on a Windows 7 PC is shown. The instructions that follow may differ from other operating systems, and also might depend on the security settings and other settings on the computer.

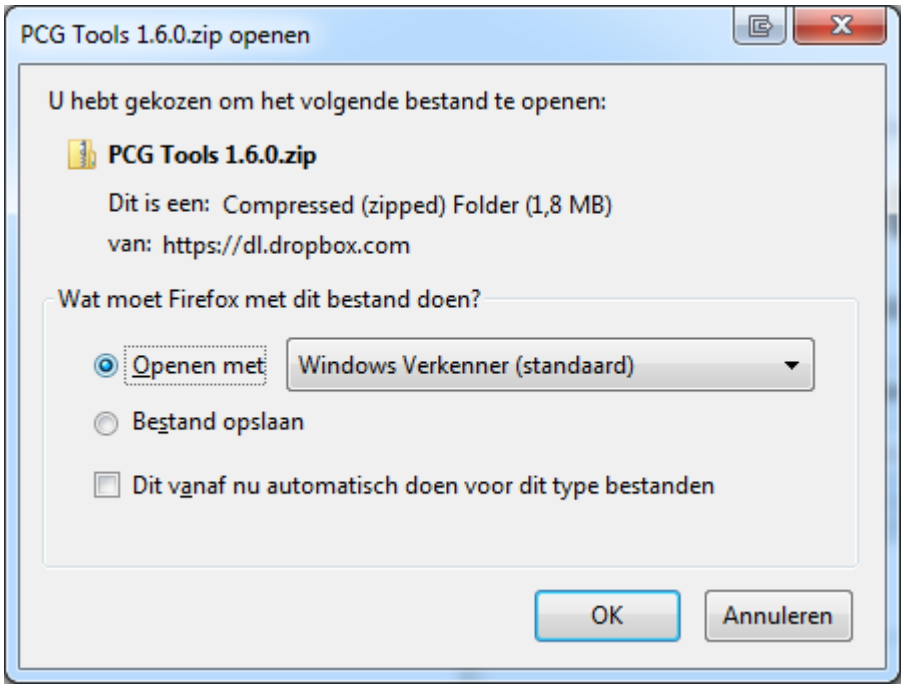
3.4.1 Instructions

After receiving the newsletter with the link and password to the latest version, you open the link.



You download the file from DropBox and unzip the file with the specified password.

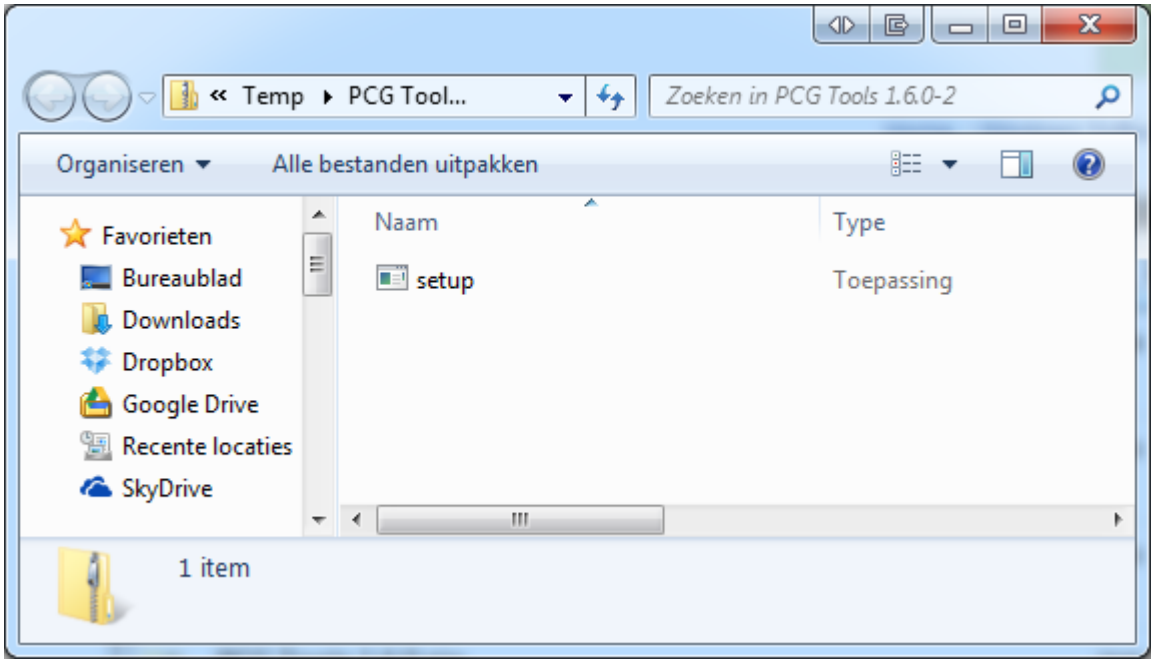
- Press Download.



You can either open the file directly (open with) or save the file. I am sorry for the Dutch texts, it cannot be changed easily but you will get texts in your own language.

- Press OK.

A file explorer will start up:



- Double click setup.

On Windows 7 the unzip procedure starts automatically.

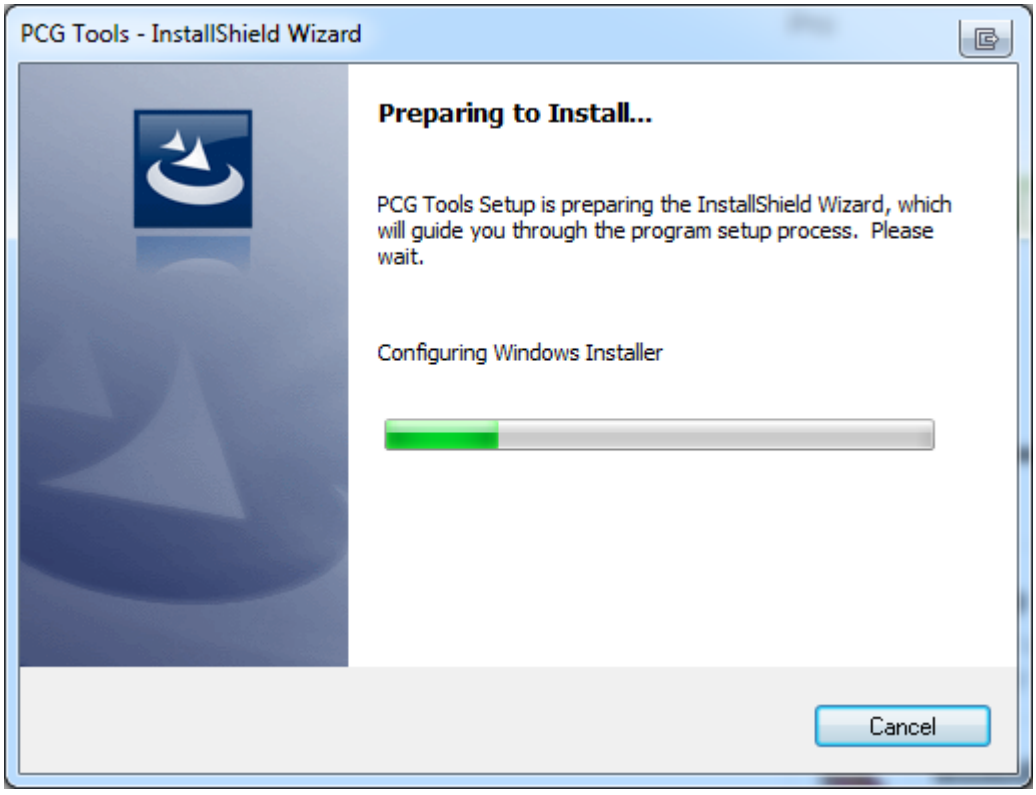
A password is required.

- Get the password from the newsletter mail, copy and paste it.

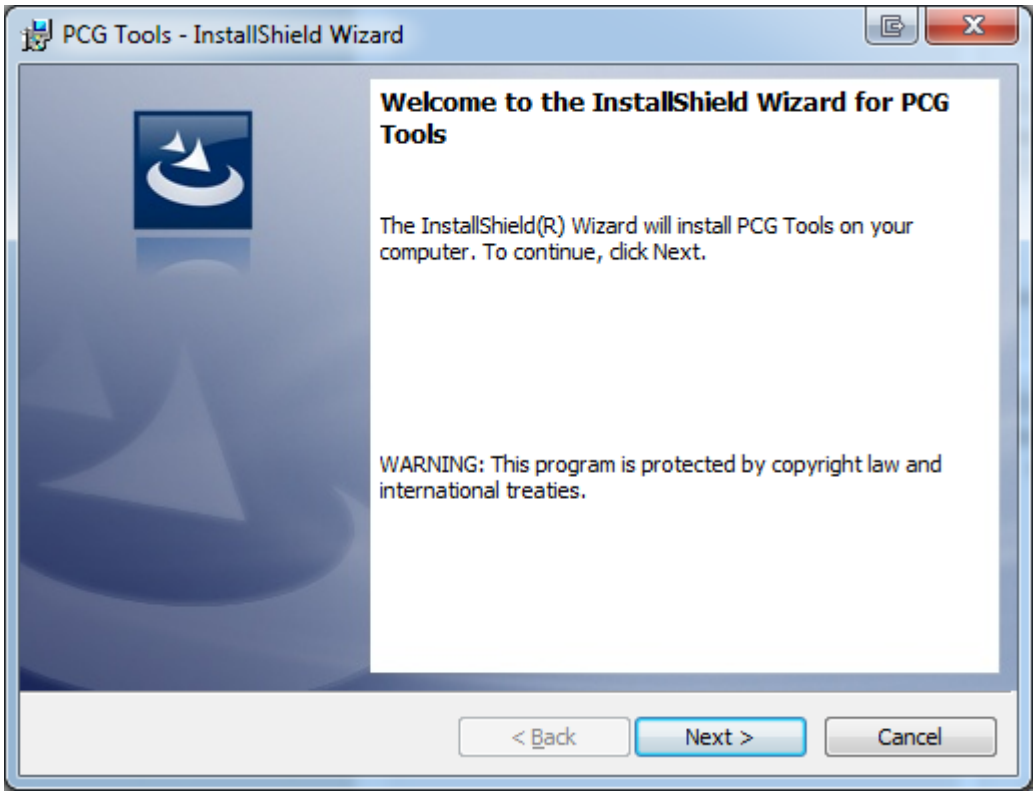
[IMPORTANT]: Never spread, mail or let others know the password. By subscribing everybody is assured to get the latest version and password. If users would not get updates they will get old versions and I would like to prevent that. Also note that the password changes at each new version (but will be distributed in the newsletter).

- Press OK

The installer will be prepared …



And when it is finished it will show the following screen:

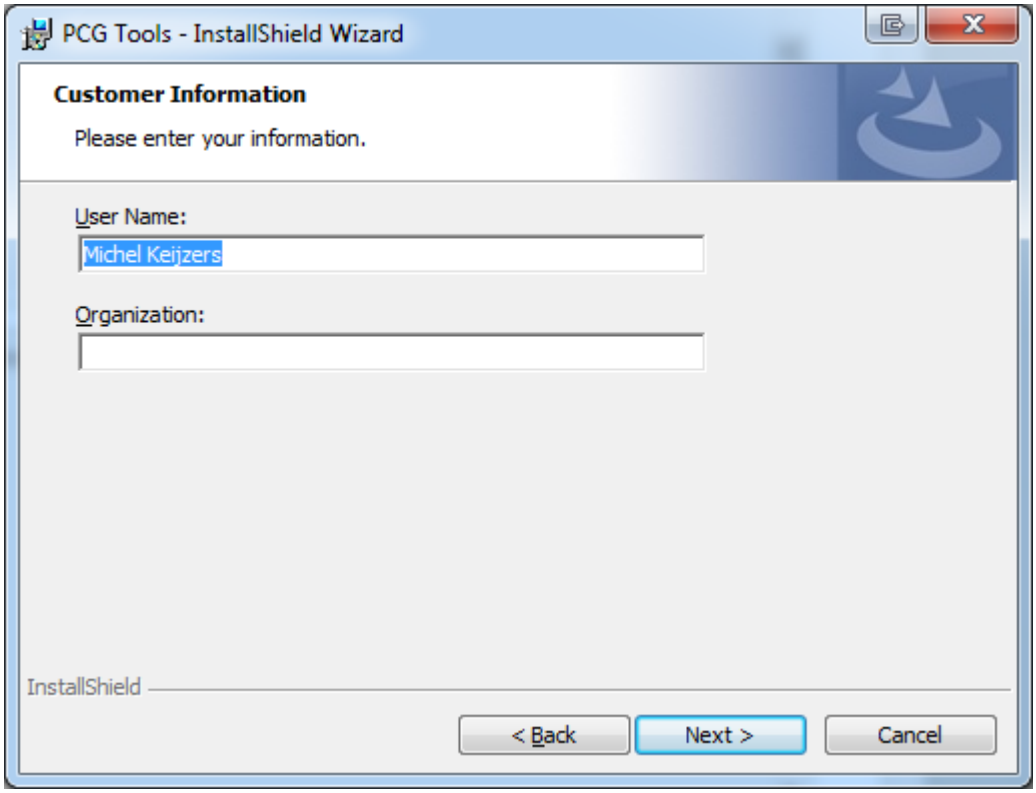


- Press Next

The license agreement is shown … accept it and press Next.

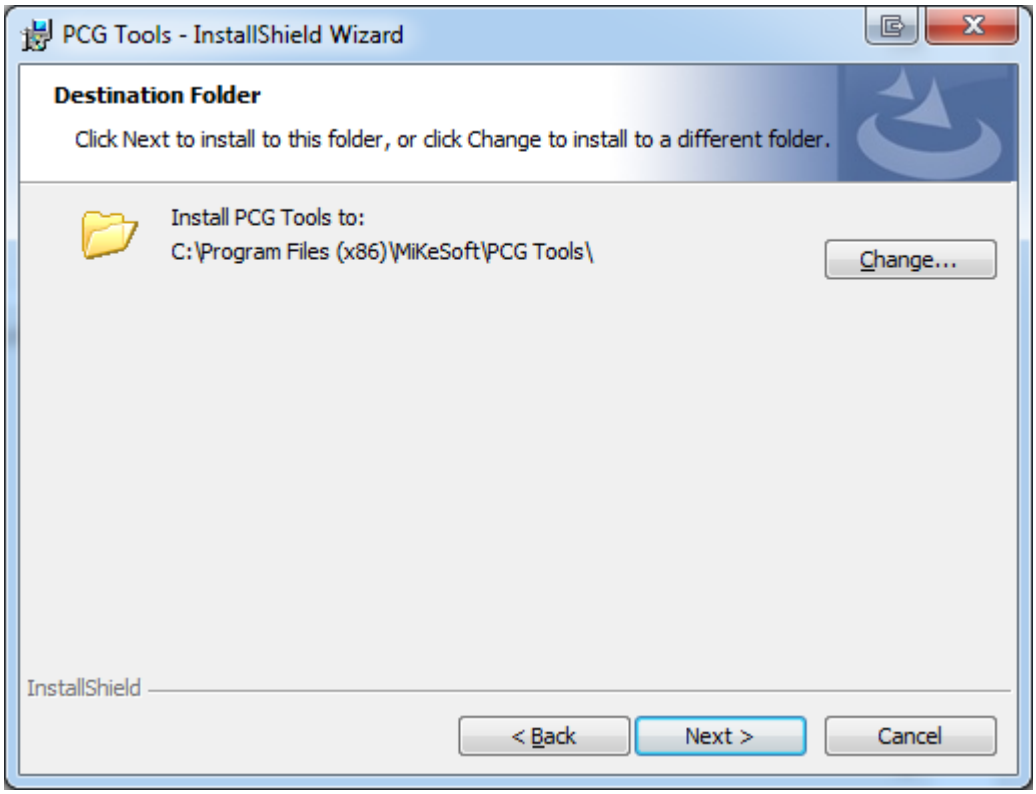
Somewhere during installation process a used library might be downloaded. The name of this library is .NET Framework 4.0. Probably it is already installed but if not, follow the instructions to install it. It will not be shown here since I already have this library on my computer and it is too tricky to remove it manually (since my development application is connected to it directly).

You will get the following screen:



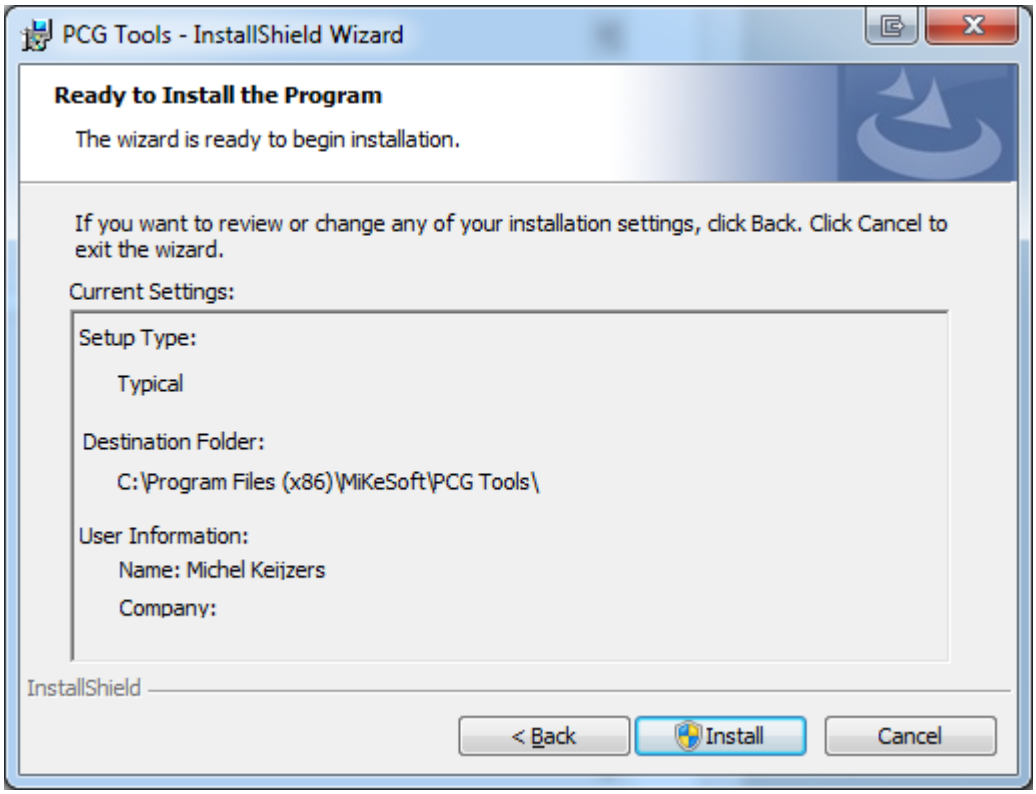
- Enter your user name and organization as you like and press Next.

The next screen is used to select the destination folder.

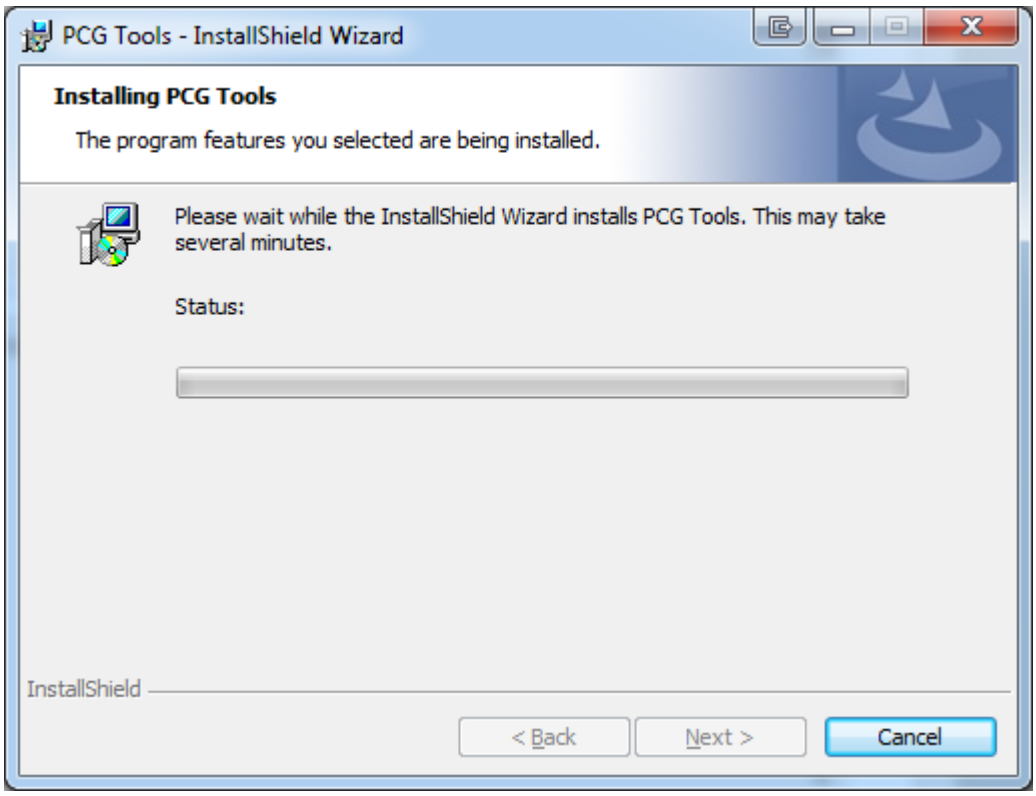


- Optionally press the Change button to change the folder where PCG Tools is installed to. Default it will be installed in the program files directory depending on your operating system.
- Press Next.

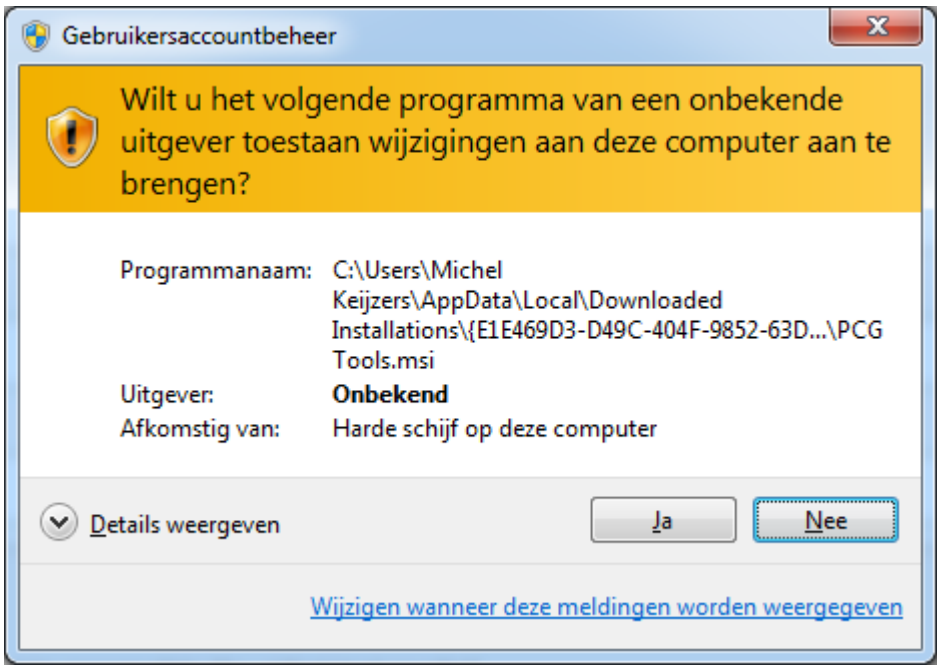
The summary window is shown:



- Check the information. If everything is fine press Install, otherwise go Back and change settings.
- During install the following screen is shown:



During installation you might get the following screen being shown (possibly the first time when you install it), but in your own language:



It requests to make changes on your computer by an unknown publisher.

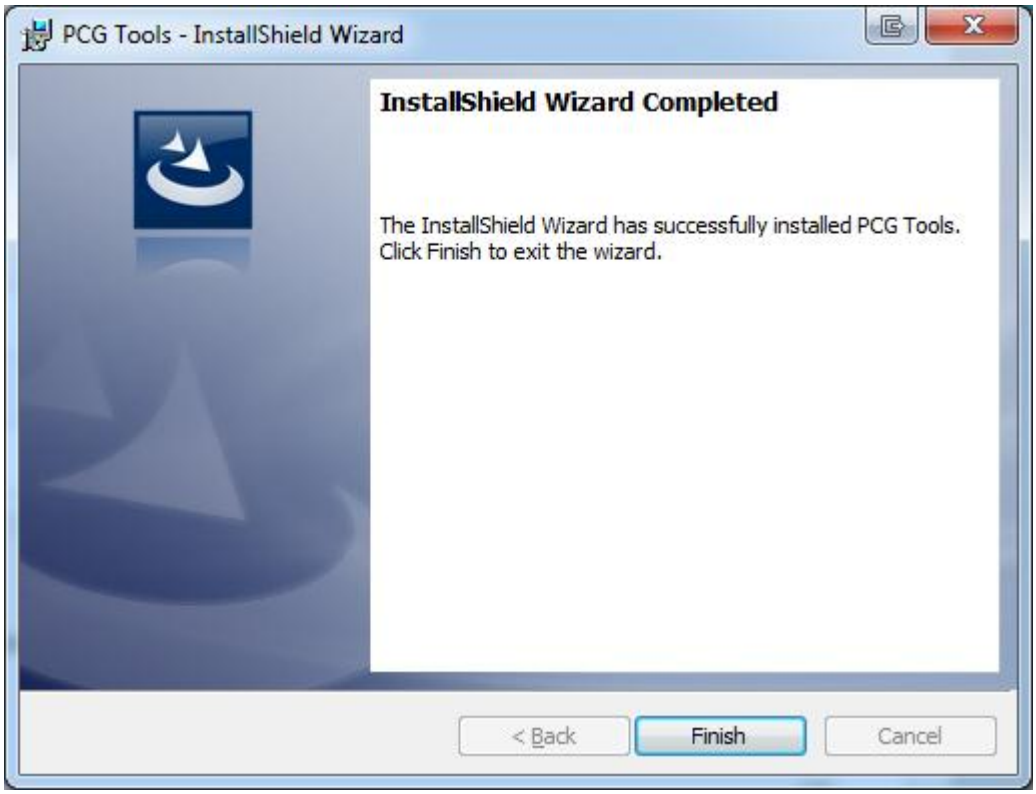
Because PCG Tools is not created by a company but by a 3th party single developer and not for commercial goals, it is not feasible to buy or license a so called Authenticode (see http://technet.microsoft.com/en-us/library/cc750035.aspx for more information) since it costs a substantial sum of money. However, to give at least some trust in PCG Tools, please refer to the following internet link where users of this application give their trustworthiness to the application:

http://www.korgforums.com/forum/phpBB2/viewtopic.php?t=71495&watch=topic&start=0&sid=d7663dc8ef5c793d095cef9a08107034

If you are assured you want to continue installing PCG Tools:

- Press Yes (Ja in the screen shot above).

Installing the application will start and the following screen is shown:



- Press Finish

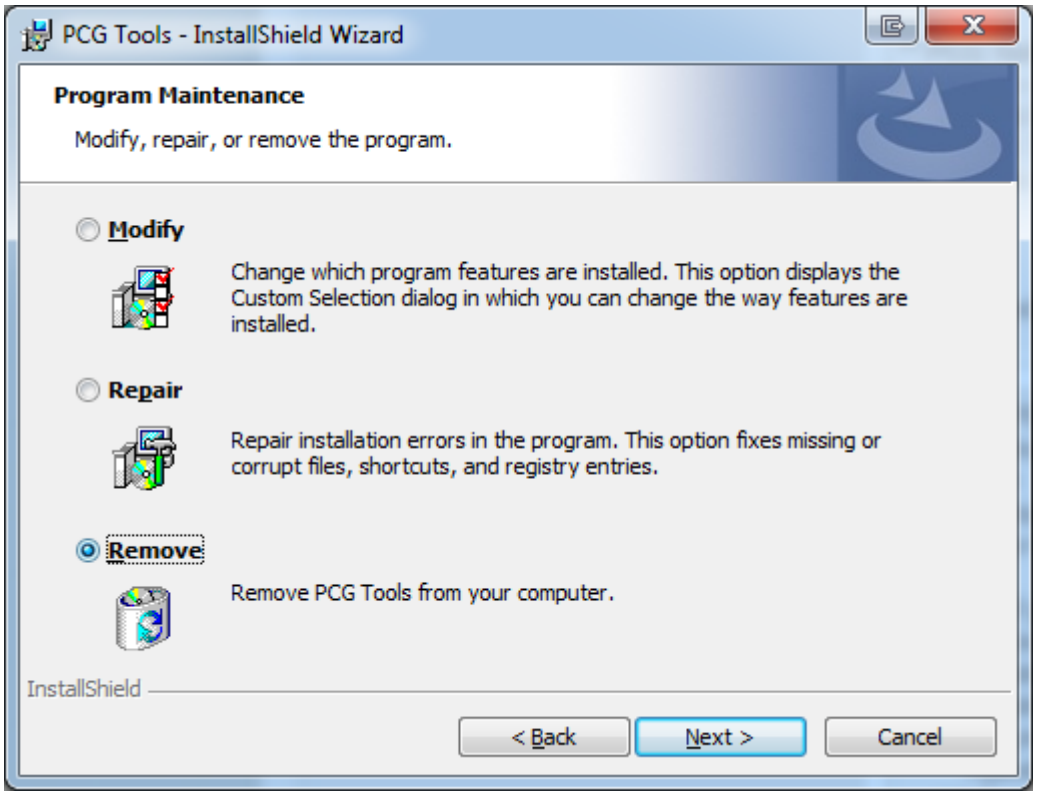
Now the application is fully installed. You can find the application in your start menu.

3.4.2 Removing the application

The application can be removed in two ways:

- In control panel, select applications or software depending in your operating system. In the gathered list select PCG Tools and select remove or uninstall.

- Run the PCG installer as described until the following window is shown.



  - Select Remove and press Next

Now PCG Tools will be removed from your computer.

3.4.3 Installation Problems

When PCG Tools does not behave like it should be, run the installer again until you get the following screen as shown above.

- Select Repair and press Next.

A summary window will be shown. Press Install and PCG Tools reinstalls itself.

If this does not help, remove the application and do a complete reinstall.

3.4.4 Standalone Installation

PCG Tools can also be installed without having an internet connection available.

Before performing the steps mentioned in the previous paragraph, perform the following steps:

1. Open the configuration screen/panel, then selecting the option 'applications'; the exact names depend on the OS so it may vary. If you cannot find the screen, assume it is not available, and continue with step 3.
2. Check if in the list that is shown if there is one or more variations of the Microsoft .NET Framework 4.0 library is present.
   If such a library is present, only copy the setup.exe file from the newsletter (and the

password to a temporary text file) to e.g. a USB stick or external hard disk and continue with step 6. If you encounter problems while or after installing, try to install the framework anyway. Note that you need the 4.0 version, older versions should not be removed, but are not being used by PCG Tools.

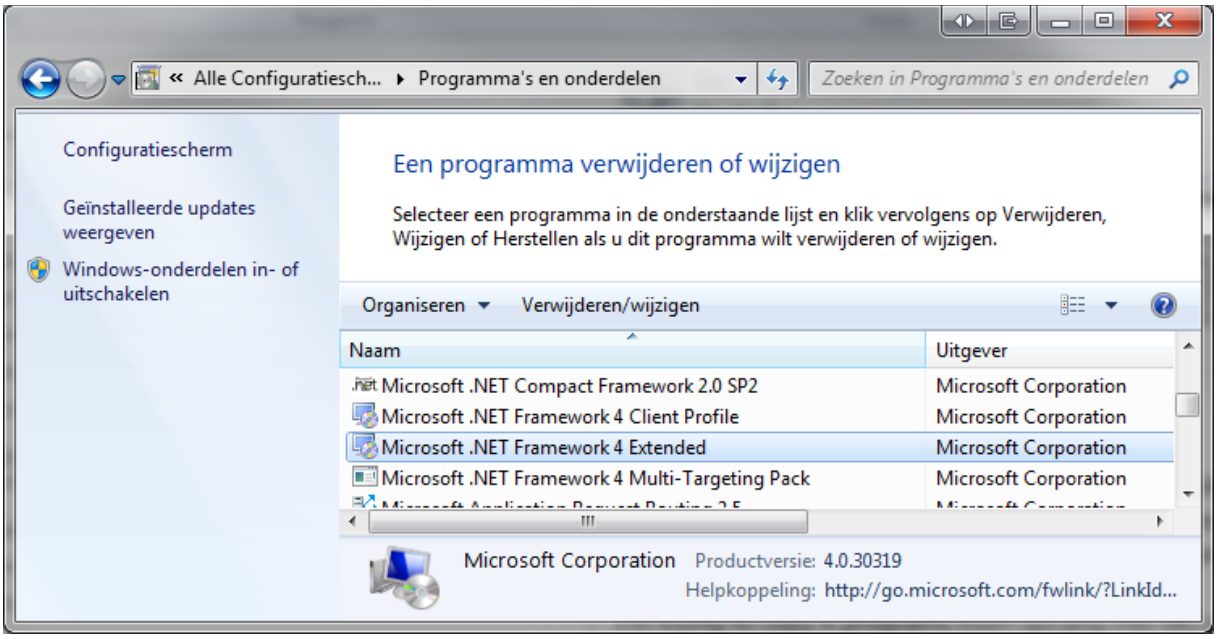


Figure 1: Microsoft Library

3. Assuming such a library is not present, download and copy it to the USB stick or external hard disk. The download location is: http://www.microsoft.com/en-us/download/details.aspx?id=17718
4. Attach the media to the target computer
5. Install the .NET 4.0 library.
6. Continue with the steps in the previous paragraph (i.e. run setup).

3.4.5 Microsoft Library

If the needed Microsoft DotNet 4.0 framework is not already installed, it will be done automatically by the setup procedure (if an internet connection is available). The installation of the DotNet framework may take some time, depending on your computer system. However, it needs to be installed only once and not for future updates. Chances are big, that the DotNet framework is already installed on your computer, since this library is used for numerous other applications too.

After setup, start the just installed application by clicking on the created desktop icon or select it in the installed applications.

3.5 Workstation Models

3.5.1 Supported Workstation Models

PCG and SNG files from the following Korg workstation models are supported:

- Korg Kronos X

- Korg Kronos
- Korg Oasys
- Korg Krome
- Korg M3
- Korg M50
- Korg Triton Extreme
- Korg Triton Classic
- Korg Triton Studio
- Korg Triton LE
- Korg Karma

3.5.2 Workstation Dependent Features

In Table 10 below, all feature difference, which are important for PCG Tools and this manual are listed per workstation model.

Model -> Feature	**Korg Kronos / Korg Kronos X**	**Korg Oasys**	**Korg M3**	**Korg M50 / Korg Krome**	**Korg Triton Series**	**Korg Karma**
Karma	√	√	√	SW only	-	-
Sampler	√	√	√	-	Option	-
Set Lists	√	-	-	-	-	-
Favorites	√	-	-	-	-	-
Sub Categories	√	√	√	√	-	-
Wave Sequences	√	-	-	-	-	-
Mute setting in timbres	√	√	√	√	-	-
Priority setting in timbres	√	√	-	-	-	-

Table 10: Model Differences

Karma is an advanced arpeggiator (and more). For the Korg M50, Karma is an optional software package to be ran on a connected computer, for some other work station models it is built in.

With a sampler, user samples can be recorded or loaded. These samples can be used as base samples for programs.

Set Lists are used for easily organizing programs and combis.

Favorites and sub categories are used for easily selecting/filtering programs and combis.

Wave Sequences are waveforms that are sequenced after each other.

Also some settings from timbres, used in a combi are not supported by all workstation models.

[NOTE]: From this page, workstation dependent features are not mentioned separately unless it does not clutter up text.

4 Korg Files

There are various kind of files that can be imported/exported from/to a Korg workstation. These file types are:

- PCG files: Files containing programs, combis, global sections and more (see paragraph 4.1) and these files have the extension ".PCG".
  PCG Tools can read these files to be analyzed and to modify.
- Song (SNG) files: Files containing one or more sequencer songs (see paragraph 4.2) and these files have the extension ".SNG".
  PCG Tools can read these files to be analyzed.
- (User) sample files: Files containing samples and parameters related to it (see paragraph 4.3), having extensions ".KMP", ".KSF" and ".KSC".
  These files are not supported by PCG Tools.

Normal MIDI (.MID) files can also be used on Korg workstations, however these are not Korg specific and are also not supported by PCG Tools.

4.1 PCG Files

Korg uses so called PCG files to store programs, combinations, global section and more:

- Program Banks
- Combi Banks
- Global section
- Set Lists
- Wave Sequences
- Drum Kits
- Arpeggios

Since the first three items were the first and important items to be stored in a PCG file, that is where the abbreviation "PCG" comes from (**P**rograms **C**ombination **G**lobal).

A PCG file consists of all (or a part of) the patch memory of a Korg workstation. A patch can be a program, a combi or a set list slot. This means, that a PCG file can contain all program banks, all combi banks and the global section, but it also can contain only a few program banks, or some combi banks and the global section. On the Korg workstation the content to be saved in a PCG file can be selected when saving a PCG file.

4.1.1 Structure

Figure 2 shows the structure of a complete PCG file. A complete PCG file is a PCG file where the complete internal memory is stored (i.e. all program banks, all combi banks, all set list slots (if supported by the workstation model), the global section etc.). Creating a complete PCG file is also the default setting when saving a PCG file.

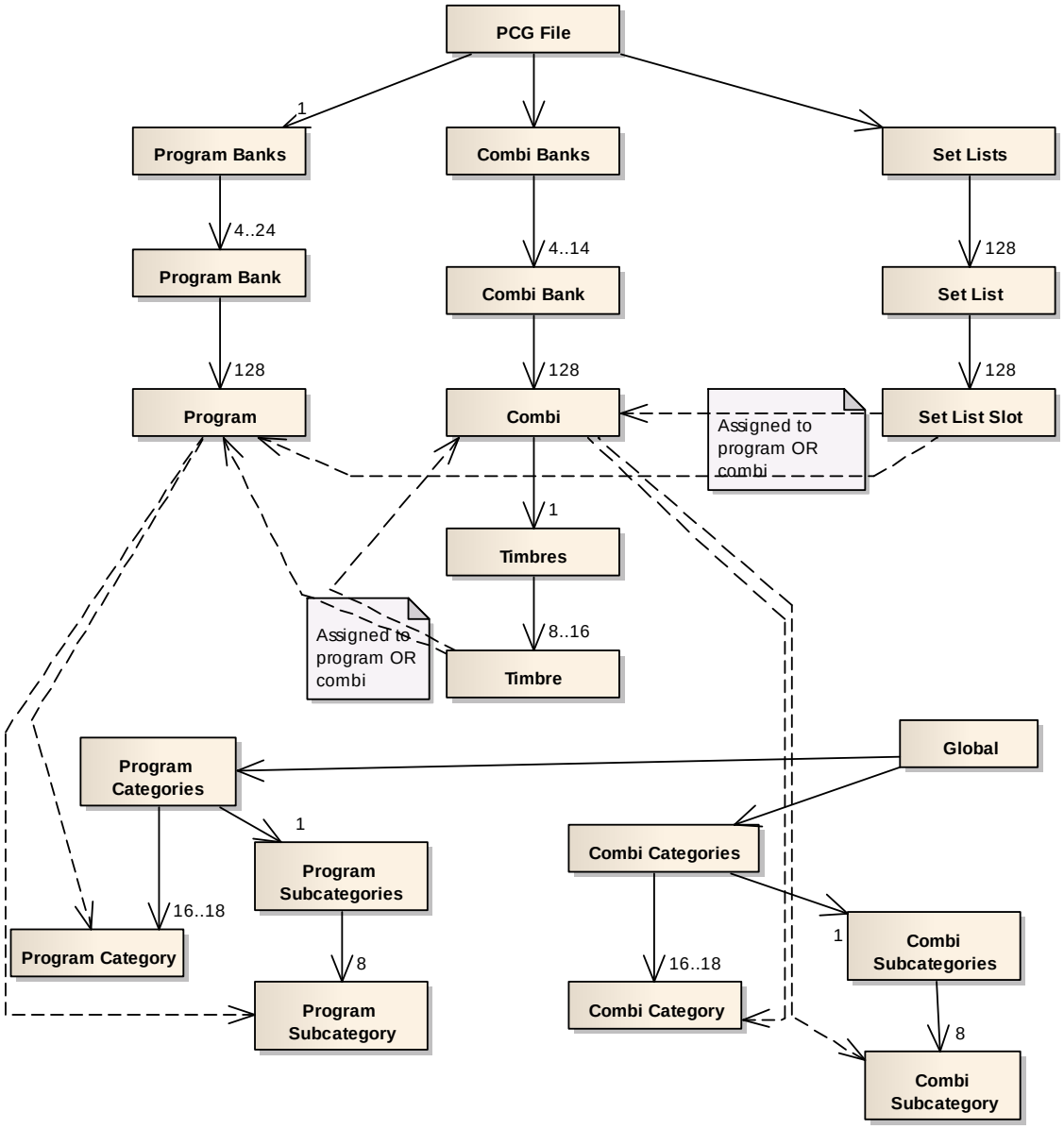


Figure 2: PCG File Structure

A solid line arrow means that the source (where the arrow starts from) consists of the specified number of items where the arrow is pointing to, e.g. The Combi Banks contains 4 to 14 individual Combi Banks (depending on the workstation model), and a Combi Bank contains 128 Combis. A dashed arrow means that the source is/can be assigned to where it points to (e.g. a combi is assigned to a combi category and combi subcategory (latter depends on the workstation model). The default number is 1 (so this is optionally displayed).

[NOTE] For sake of simplicity, drum kits and wave sequences are not shown in the diagram.

4.1.2 Program

A program is built up from one (Single) or two (Dual) oscillators (and optionally uses a drum kit). A so called sampled program is a program which is using one or more of the (multi)samples and a

modeled program is (normally) not using multi samples, but uses an external board for sound production.

Examples of sampled programs are programs using the HI, EDS or HD1 rompler engines.

Examples of modeled programs are programs using the Moss (Korg Triton), Radias (Korg M3), or one of the EXIs (Korg Oasys, Korg Kronos).

Each program has parameters. Only a small portion of parameters are used within PCG Tools, e.g. the Name, Favorite setting, Category, Sub category.

4.1.3 Program Bank

A program bank always contains exactly 128 programs, indexed from 0 to 127 (except for GM banks which are indexed from 1 to 128). A program bank is named with a letter A to N or I-A to I-G, U-A to U-G, U-AA to U-GG, depending on the workstation model. The I stands for Int(ernal bank) and the U for User (bank).

A program can be identified uniquely together with its index, e.g. Program I-A64 or I-A064 means program number 64 in program bank I-A.

A program bank can be one of the following two types: modeled or sampled. Most workstations program banks are of the sampled type, meaning it contains only sampled programs. Other banks are modeled program banks and contain only modeled programs. On some workstation models the banks are predefined (meaning a bank can contain sampled programs and never can contain others), on other workstation models (like the Oasys and Kronos), each bank can be assigned to contain either sampled programs or modeled programs. However, sampled and modeled programs can never be mixed within one program bank.

Also each workstation has one or more GM (General MIDI) banks. These banks are read only and therefore are never stored in a PCG file. However, combinations and set list slots can refer to GM programs and will be used in PCG Tools whenever necessary, but their names will not be shown (since these are not present in PCG files).

[WARNING]: No difference between different GM banks is made. All GM banks are "mapped" within PCG Tools internally to GM (instead of GM, g(1) .. g(9)) for visualization. However, internally (in the PCG file) the GM program references will not be changed.

Table 11 shows which workstation models has which program banks and from which type.

Workstation Model	Sampled Program Banks	Sample Engine	Modeled Program Banks	Model Engine(s)	Combi Banks	Remarks
Korg Kronos / Korg Kronos X	I-A..I-F, U-A..U-G, U-AA..U-GG	HD1	I-A..I-F, U-A..U-G, U-AA..U-GG	EXi	I-A..I-G U-A..U-G	Each program bank can be of either type.
Korg Oasys	I-A..I-F, U-A..U-G	HD1	I-A..I-F, U-A..U-G	EXi	I-A..I-G, U-A..U-G	Each program bank can be of either type.
Korg M3	I-A..I-E, U-A..U-G	EDS	I-F	EXB-Radias	I-A..I-G, U-A..U-G	
Korg M50	A-E	EDS	n.a.	n.a.	A-D	
Korg Krome	A-F	EDS-X	n.a.	n.a.	A-D	
Triton Extreme	A-E, H..M	HI2	F	EXB-MOSS	A-E, H-M	
Triton Studio	INT-A.. INT-E, EXB-A.. EXB-G	HI2	INT-A.. INT-F	EXB-MOSS	INT-A..INT-E, EXB-A..EXB-G	See *
Triton Classic	A-E	HI2	F	EXB-MOSS	A-D	
Triton TR/Rack	A-E	HI2	F	EXB-MOSS	A-D	
Triton LE	A-D	HI2	n.a.	n.a.	A-C	
Karma	A-E		F	EXB-MOSS	A-F	

Table 11: Program Banks from various workstation models

* The internal banks of Triton Studio are in PCG Tools noted as I-A..I-E instead of INT-A..INT-E because PCG files from the Triton Studio cannot be differentiated from the Triton Classic/TR/Rack.

Not all program banks have to be filled.

When saving a PCG file on a workstation, per program bank you can select if it will be saved in the file or not. Default all program banks will be selected for saving.

In PCG Tools a program bank is considered empty when all programs in a bank are empty or have an initialized name.

[NOTE] For sake of simplicity, drum kits and wave sequences are not shown in the diagram.

4.1.4 Program Banks

Program banks are the complete set of all program banks described in the previous paragraph. In Table 11 can be found how many and of which type and name are available per workstation model.

4.1.5 Combi

A combi is normally used for stacking sounds, splitting the keyboard (or external keyboards) in both velocity ranges and keyboard zones and controlling other keyboards.

Each combi has parameters. Only a small portion of parameters are used within PCG Tools, such as the Name, Favorite setting, Category/Sub category.

A combi is considered broken, if one or more of the used timbres assigned to an incorrect program, which can happen after (unintentionally) overwriting or copy/pasting a program over a program being used in that combi.

4.1.6 Timbres

A combi consists of 8 or 16 timbres, depending on the workstation model. A combi can be on or off, if used (on), it can set to control an external MIDI device, or (normally) it is assigned to a program.

[EXAMPLE]: If you want to stack sounds, you can assign two (or more) timbres to programs. You also can split your keyboard because each timbre has a key zone, so you can define one timbre to be active from key C-1 to C4 and another timbre to be active from C#4 to G9. Also it is possible to set a velocity range and multiple other parameters, making possibilities endless.

4.1.7 Timbre

A timbre refers to a program contained in a program banks, or to an external keyboard/synthesizer program. Because a timbre only refer to program (and not containing all parameters of a program), it means that changing programs causes to change also the (timbres in the) combis were those programs are used in. This has both advantages and disadvantages, see Table 12.

Advantages	Disadvantages
When a program is improved or changed to your likings, all combis using that program automatically will use the improved program.	When changing a program in a combi without affecting other combis, you have to copy the program to another location and change the reference in the combi to the new location.
Less memory is necessary to store programs.[1]	

Table 12: Programs referring by combis advantages/disadvantages

Another disadvantage, not because of the fact that programs are inside combis or referring to programs in program banks, is that there is no easy means to know IF and by which combis a specific program is used. Luckily, PCG Tools can create a list to solve this problem.

Of course not all timbres in a combi have to be used (unused timbres can be switched off).

4.1.8 Combi Bank

Combi banks are the same as Program banks except they contain combis. Korg workstations mostly have 4 to 16 of them, and are named equally as program banks, although they are not related.

A combi bank always contains 128 combis, indexed from 0 to 127. A combi can be identified uniquely together with the combi bank where it resides, e.g. Combi I-A64 or I-A064 means combi number 64 in combi bank I-A. The I stands for an Int(ernal) bank, as opposed to U(ser) bank.

[1] Having 14 banks of 128 combis containing 16 programs would be 28,672 programs needing to be stored, resulting in a PCG file of hundreds of MBs.

Not all combi banks have to be filled.

When saving a PCG file on a workstation, per combi bank you can select if it will be saved in the file or not. Default all combi banks will be selected for saving.

In PCG Tools a combi bank is considered empty when all combi in a bank are empty or have an initialized name.

4.1.9 Combi Banks

Combi banks are the complete set of all combi banks described in the previous paragraph. In Table 11 can be found how many are available and their names per workstation model.

[WARNING]: When saving combi banks using non factory programs always make sure all used program banks are saved in the PCG file too. Otherwise when the PCG file is loaded, the references to the programs will refer to unexpected programs (causing so called broken combis).

4.1.10 Set List Slot [Kronos Only]

The Korg Kronos has introduced a new feature, called set lists. A set list slot is a reference to one program or one combi together with a user defined name, a description of 512 characters and a volume.

4.1.11 Set List [Kronos Only]

128 Set list slots are combined in a Set List. A set list also can have a name and an equalizer setting.

4.1.12 Set Lists [Kronos Only]

The Korg Kronos has 128 set lists (each containing of 128 set list slots), resulting in a total of 16,384 set list slots in total.

A set list slot is in PCG Tools unique identified as e.g. 034/123, meaning set list slot 123 of set list 34.

4.1.13 Drum Kit

A drum kit can be set for a program or combi (and mostly played on MIDI channel 10).

4.1.14 Drum Kit Bank

Drum kit banks are banks of drum kits. The number of drum kits bank differ per workstation model but are mostly not 128 like programs and combis.

4.1.15 Drum Kit Banks

These are all drum kit banks together, mostly both internal and user banks.

4.1.16 Wave Sequence

Wave sequences are used with programs.

4.1.17 Wave Sequence Bank

Wave sequence banks are banks of wave sequences. The number of wave sequence bank differ per workstation model but are mostly not 128 like programs and combis.

4.1.18 Wave Sequence Banks

These are all drum kit banks together, mostly both internal and user banks.

4.1.19 Global

On each Korg workstation there is always exactly one global section in a workstation. It contains the generic data over all programs, combis and set list slots like current MIDI channels, keyboard velocity/aftertouch curves, some controller settings, the categories and sub categories etc.

When saving a PCG file the global section can be saved optionally. Default it is selected to be saved.

4.1.20 Category

Each program or combi (not set list slots) is assigned to a category, which can be seen as groups of sounds, like piano, organs, drums etc. There are 16 or 18 of them (depending on the workstation model, some are empty/unused by default). Each category has a default name, but can be overridden in the global section (it is advised not to change the predefined category names).

[WARNING]: When a PCG file does not contain the global section (see paragraph 4.1.13), category names are unknown and the index of the category is used in PCG Tools.

4.1.21 Sub Category

Each program or combi (not set list slots) is assigned in a sub category, which depends on the category. For each category there are 16 sub categories defined (some are empty/unused by default). E.g. the piano category has sub categories Acoustic Piano, Electric Piano, All, etc.

[WARNING]: When a PCG file does not contain the global section (see paragraph 4.1.13), sub category names are unknown and the index of the sub category is used in PCG Tools.

4.2 Song (SNG) Files

Song files are files were the songs for the sequencers are stored in. In general, songs contain all notes and controller data including used timbres/tracks information. These timbres are very similar to the timbres of a combi (see paragraph 4.1.6). Also a list of used samples are contained in a SNG file.

4.3 KMP/KSF/KSC Files

These files are used to store (user) samples and are not used by PCG Tools and not further explained here.

5 Workflow

5.1 Description

PCG Tools can load PCG files and SNG files.

To get the workstation content into PCG Tools the workflow is described in the subsequent paragraphs. For multi media cards to be used, check paragraph.

5.2 Workflow for Korg Kronos (X) with FTP connection

The workflow for the Korg Kronos with OS2.0 or later and Kronos X is different than for other workstations because it can make use of an FTP connection. To setup up an application and create the connection see Chapter 11. The steps for using PCG Tools assuming the FTP connection is active are:

- Save a PCG and/or SNG file to the SSD.
- Download the file on your computer using an FTP program. See chapter 11 for more info.
- Optionally make a backup.
- Open the file in PCG Tools. You can do this in two ways:
    - Open PCG Tools and load the file.
    - or double click on the PCG file name in e.g. the file explorer which opens the PCG Tools application automatically.
- Continue opening files if wanted (e.g. if you want to copy files from one PCG file to another).
- Perform actions on the PCG Tools. When the content of the PCG file changes, an asterisk will be shown next to the file name in the window title bar. (Currently, SNG file cannot be changed).
- If the contents have changed, it is assumed the file should be saved. It can be saved over the original PCG / SNG file or it can be saved to a different file (name) and location.
- When finished, save the file to your computer.
- Upload this file to the SSD.
- Load the file from the SSD.

5.3 Workflow in all other cases

The workflow for other workstations and Kronos workstations before OS2.0:

- Save a PCG and/or SNG file on the workstation by selecting the Save PCG or Save SNG option. Depending on the workstation type it can be stored on a CompactFlash (CF), SecureDigital (SD) or USB stick/drive.
- Insert the media in the computer.
- Optionally copy the file to the computer.
- Open the file in PCG Tools. You can do this in two ways:
    - Open PCG Tools and load the file.
    - or double click on the PCG file name in e.g. the file explorer which opens the PCG Tools application automatically.
- Continue opening files if wanted (e.g. if you want to copy files from one PCG file to another).

- Perform actions on the PCG Tools. When the content of the PCG file changes, an asterisk will be shown next to the file name in the window title bar. (Currently, SNG file cannot be changed).
- If the contents have changed, it is assumed the file should be saved. It can be saved over the original PCG / SNG file or it can be saved to a different file (name) and location.
- When finished, copy the file to the media (if not already saved over it if you loaded the file directly from the media).
- Insert the media in your workstation.
- Load the media in the workstation by selecting the Load PCG or Load SNG option.

*See next paragraph for a list of media to be used per workstation model.

It is advised to not do too many changes. Regularly save the file and check on the workstation if the content is exactly as intended. Always keep a backup before you change information in a PCG file with PCG Tools.

5.4 Connection/Storage Types per Workstation Model

The following table shows a list of multimedia cards or connection possibilities to be used with PCG Tools per workstation model.

Workstation Model	Recommended connection/storage	Alternative connection/storage
Kronos (X) with USB/FTP adapter	FTP connection	USB stick
Kronos(X) without USB/FTP adapter	USB	n.a.
Korg Oasys	USB	n.a.
Korg M3	Secure Digital (SD) card	n.a.
Korg M50	Secure Digital (SD) card	n.a.
Korg Krome	USB	n.a.
Korg Triton Extreme	Compact Flash (CF) card	n.a.
Korg Triton Class/Studio/LE/Rack	Compact Flash (CF) card	n.a.
Korg Karma	Floppy Drive	n.a.

Table 1: Connection/storage type per workstation model

6 Main Screen

6.1 Splash Screen

Before the main screen is shown, a splash screen is visible for approximately five seconds. This screen shows the current version, a copyright note, the developer and the (nick) name and optionally a logo of the sponsors of the application. In case you are interested in the logo, you always can check out the External Links window (see paragraph 6.11.3). The name of the donator which is shown varies each time the application is started, and the amount of money donated defines the ratio of being displayed.

Figure 3: Splash screen

6.2 Application Start

The application can be started in the following ways:

- Opening the icon via the start menu (or other way depending on the operating system).
- By opening/double clicking on a PCG file (see Figure 4 for a screenshot of PCG files shown with the PCG Tools icon).
- By a command line interpreter (like cmd.com) usable in two ways:
  - Without arguments to open PCG Tools in the default way.
  - With arguments to create a defined list from the set list generator.

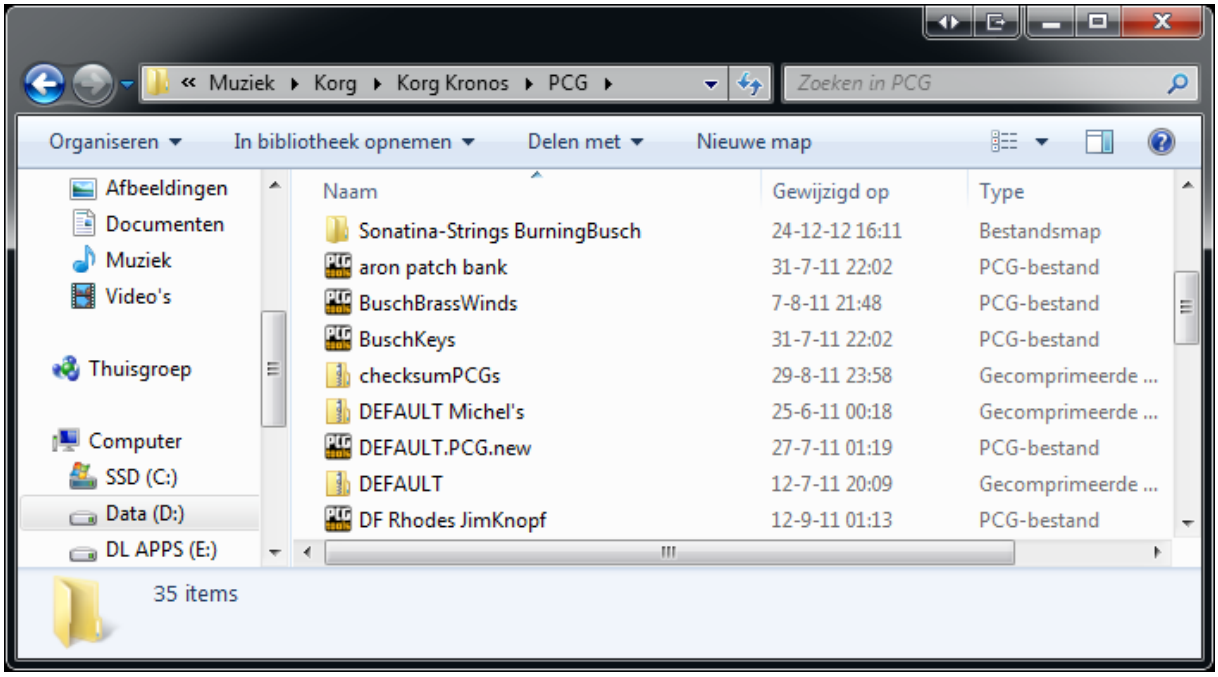


Figure 4: PCG Tools icon

6.3 Initial screen

When the application is started a screen (somewhat) similar to Figure 5 is shown. It will start up with the same state (normal or maximized) and screen position/width height as the previous time.

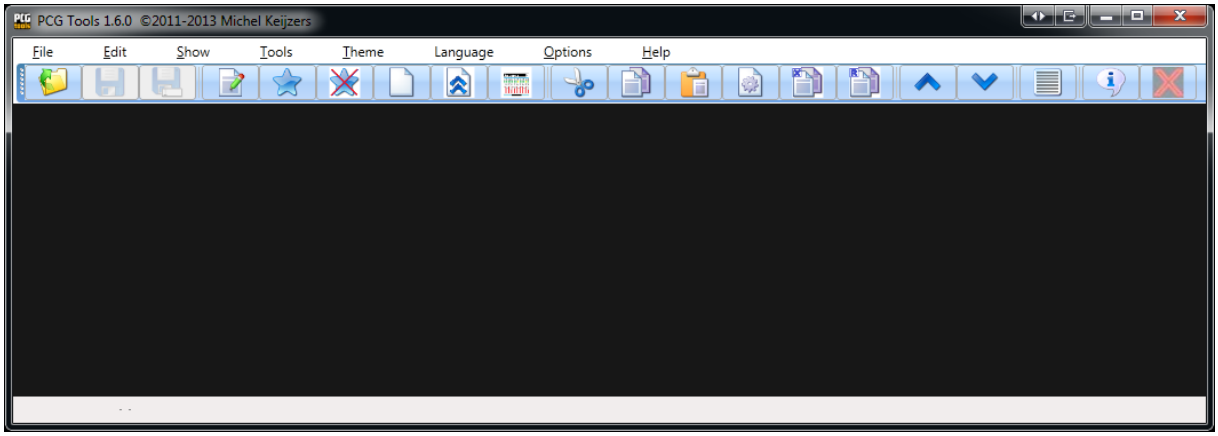


Figure 5: Initial main screen

Initially no file is loaded and an mainly empty screen is shown, except when PCG Tools has been started by double clicking a PCG file which is loaded immediately or when using command line arguments loading a PCG file by default.

The title of the window contains the application name (PCG Tools), the version, copyright mark/year and the name of the developer.

Furthermore, only the menu and toolbar is shown. Only commands which can be executed are selectable, items that cannot be executed are grayed out.

In the following paragraphs the common menus are explained.

6.4 File Menu

The file menu is used for opening, closing files and more basic functionality for the application (like closing).

6.4.1 Open File Command

This command is used for opening a new PCG of SNG file.

The following ways can be used to select this command:

- Select the Open menu item in the File menu
- Press Ctrl + O key
- Select the Open file tool bar icon (yellow folder with the green arrow)

When selected, an Open File dialog will be shown. Here the type of file can be selected, which is one of:

- PCG files (*.pcg): Load one or more PCG files.
- SNG files (*.sng): Load one or more SNG files.
- All files, show all files

When selecting/changing the type only those type of files are shown. It is possible to select more than one file.

After selecting a (PCG) file, the screen looks like Figure 6.

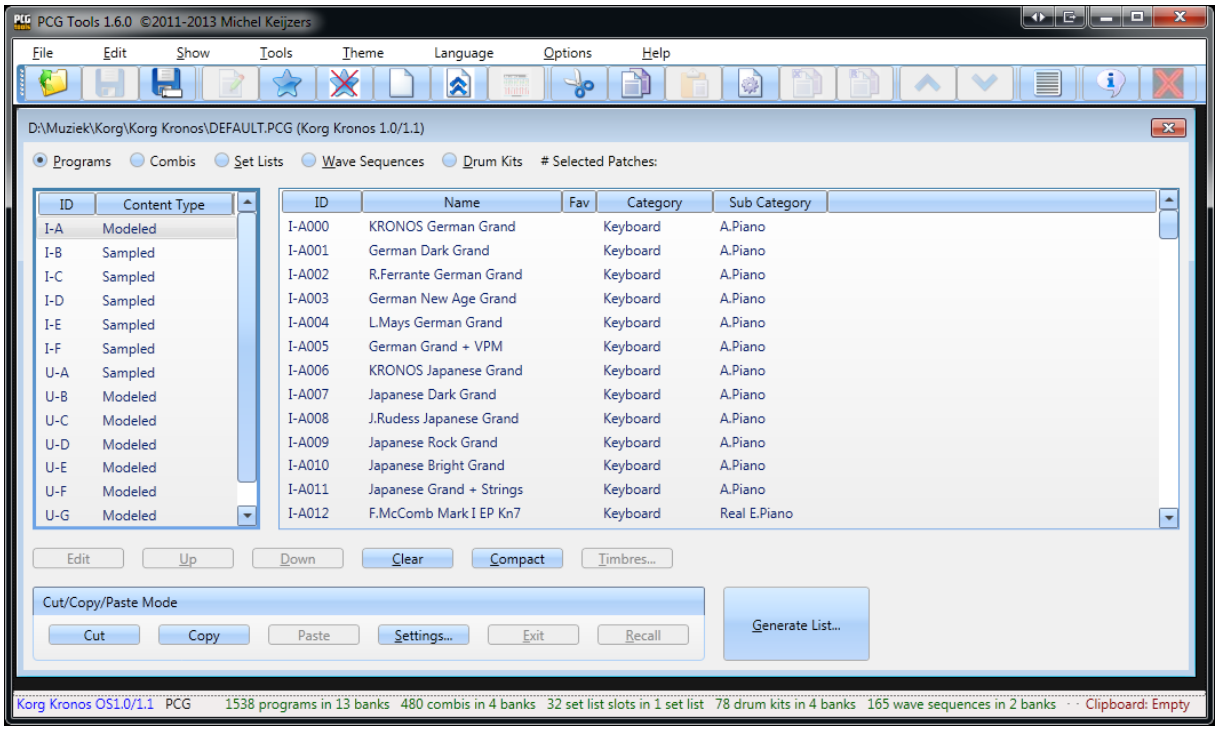


Figure 6: Opened File

[TIP]: If you always want start with the same PCG file, pass it as an argument and it will be opened automatically when starting PCG Tools.

When the file is corrupted or a file is tried to be load from a non supported Korg model an error will be shown as shown in Figure 7.

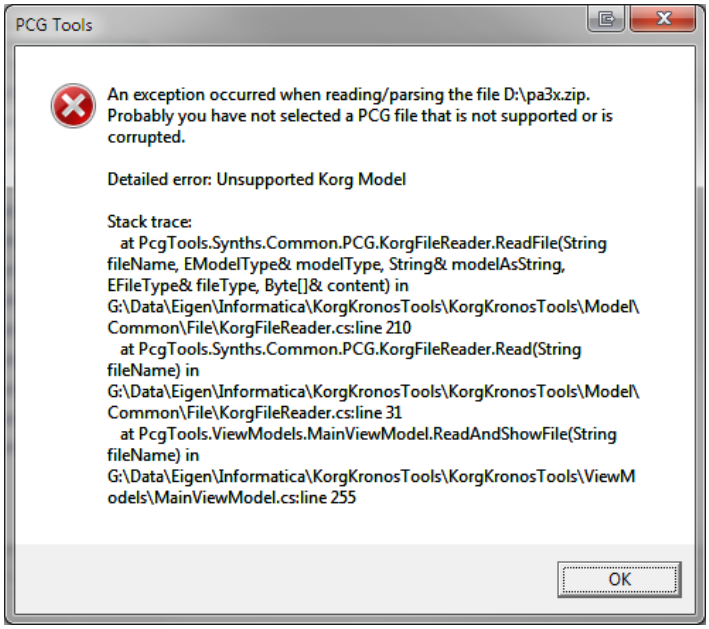


Figure 7: Corrupted or Unsupported File

In case the PCG file contains no programs, no combis and no set list slot the following warning is shown, after which an empty PCG window will be presented.

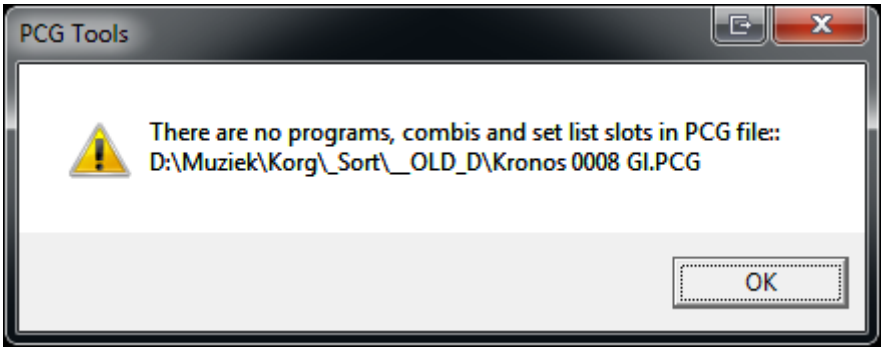


Figure 8: Empty PCG File

6.4.2 Save File Command

This command is used for saving a changed PCG of SNG file.

The following ways can be used to select this command:

- Select the Save menu item in the File menu
- Press Ctrl + S key
- Select the Save file tool bar icon (the blue disk without the label)

Changes made by the application are not automatically stored. You have to save them explicitly.

Saving a file is only possible if you have really changed the contents. This can be seen at the asterisk (*) that is added behind the file name in the window, in the example in Figure 9 the asterisk is placed after D:\Kronos.PCG after moving a program down.

Remember that files shown with an asterisk are NOT saved yet. It is good practice to save regularly.

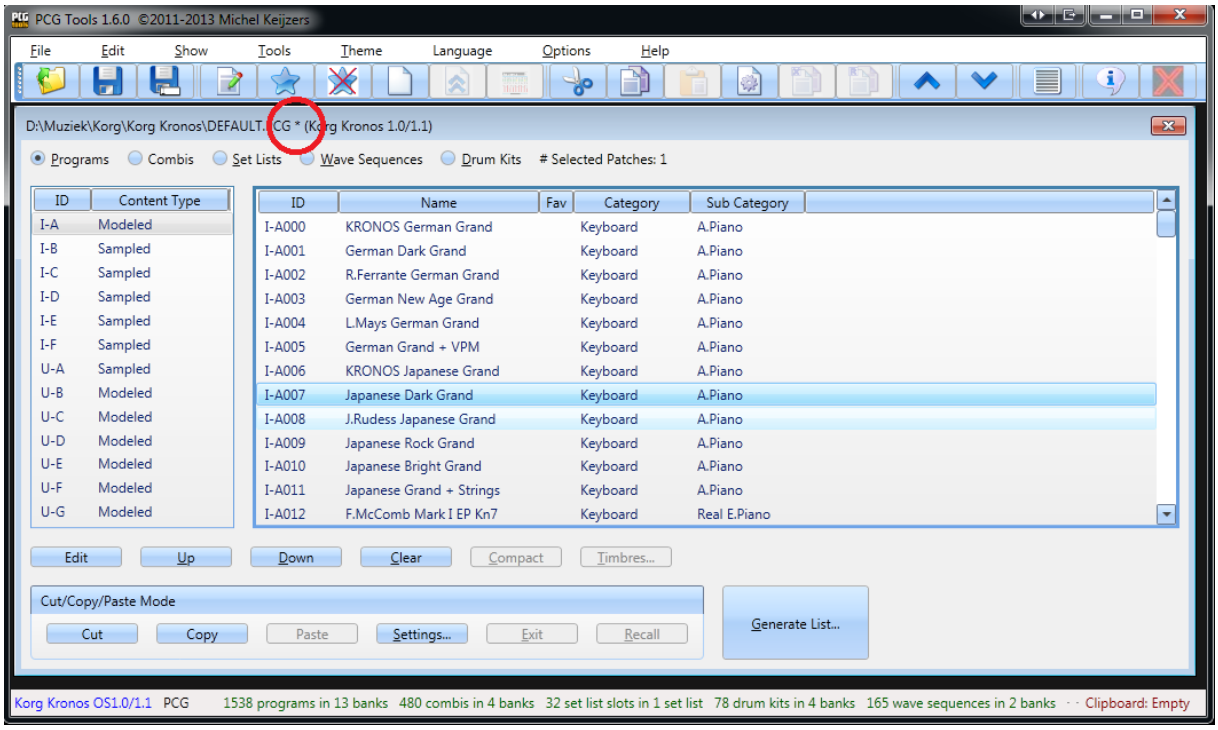


Figure 9: Changed PCG file

The file is saved over the loaded file and the asterisk is removed after saving.

6.4.3 Save (File) As Command

This menu command is similar to saving a file, except that it is always available (when a file is selected).

The following ways can be used to select this command:

- Select the Save As menu item in the File menu
- Press Ctrl + Shift + S key
- Select the Save As file tool bar icon (blue disk with the white label)

When selected, a save file dialog is shown and a name can be entered or a file to overwrite to can be selected for saving the file.

[WARNING]: There is no Undo functionality, after saving a file you cannot return to an earlier state, but you can regularly save files under different names to be able to go back to a certain file if needed.

6.4.4 Export to Sequencer Command

This menu command will be handled in Paragraph 7.7.1).

6.4.5 Revert to Saved Command

This command is used for reverting to the saved file.

The following ways can be used to select this command:

- Select the Revert To Saved menu item in the File menu

When selected, the selected file is reloaded. This should be used with care, because all changes since the last time the file was saved will be undone and cannot be redone.

You can use this function as a Undo feature to restore the status to the last saved situation.

When a cut/paste or copy/paste action is in progress while executing this command, Figure 51 will be shown to ask whether to continue or not. Continuing might result in partly copied patches.

[TIP]: when you have saved a file, changed it on your workstation and saved the PCG file on the media and inserted that media into your computer again in the same folder and under the same name, to load that changed file in PCG Tools, it is not needed to close the selected file and open the same file again, but a simple 'Revert to Saved' command will do.

[TIP]: When too many Combi windows (see paragraph 7.4) are open, this command can be used to close all Combi windows from this PCG file. Also all bank and patch selections (highlighted banks and patches) are discarded, because the file is closed and reopened again.

6.4.6 Close Command

This command is used for closing the selected PCG or SNG file.

The following ways can be used to select this command:

- Select the Close menu item in the File menu
- Press Ctrl + F4 key (default Windows behavior)

When selected, the selected file is closed. In case the file has been changed without saving (shown by the asterisk), a warning message is shown to save the file or not as shown below.

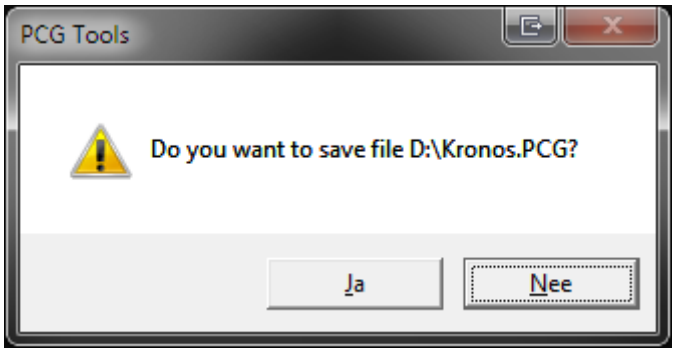


Figure 10: Warning Dialog when closing a changed file

When a cut/paste or copy/paste action is in progress while executing this command, Figure 51 will be shown to ask whether to continue or not. Continuing might result in partly copied patches.

For PCG files, when sub windows are shown (such as the Combi window explained in Paragraph 7.4), all sub windows are closed automatically.

When a window is closed the size is remembered and the next time a window of the same type is opened, automatically those dimensions will be used. The different window types are:

- PCG Window
- Combi Window
- SNG Window

6.4.7 Exit Command

This command is used for exiting the application.

The following ways can be used to select this command:

- Select the Exit menu item in the File menu
- Press Alt + F4 key (Default Windows behavior)

When selected, the application is stopped. All opened files are closed and for every unsaved changed files is asked whether it should be saved or not (as explained in paragraph 6.4.6). One extra option is available in case a file is changed but unsaved: Cancel. When selecting this option, the application does not exit and no more files are closed. See below for an example of this warning dialog.

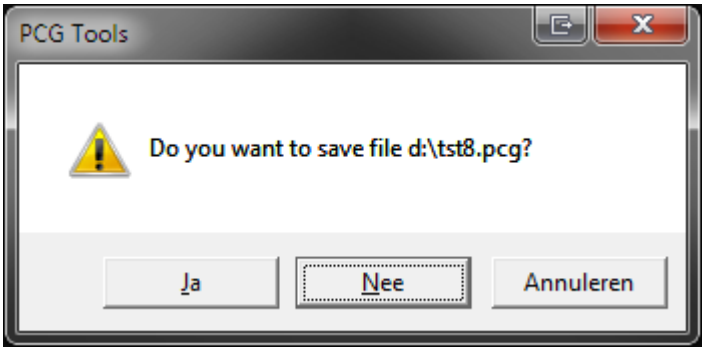


Figure 11: Warning Dialog when exiting PCG Tools

When a cut/paste or copy/paste action is in progress while executing this command, Figure 51 will be shown to ask whether to continue or not. Continuing might result in partly copied patches.

6.5 Edit Menu

This menu shows actions depending on the current window that is shown and can be found in the corresponding window explanation.

6.6 Show Menu

6.6.1 Timbres

Timbres is only active when in a PCG window a single combination is selected. With this command a new window is displayed, showing the timbres of the selected combi. See Paragraph 7.4 for more info.

6.6.2 Special Event

This menu item is not always enabled, only when a special announcement or event has occurred. Below is an example.

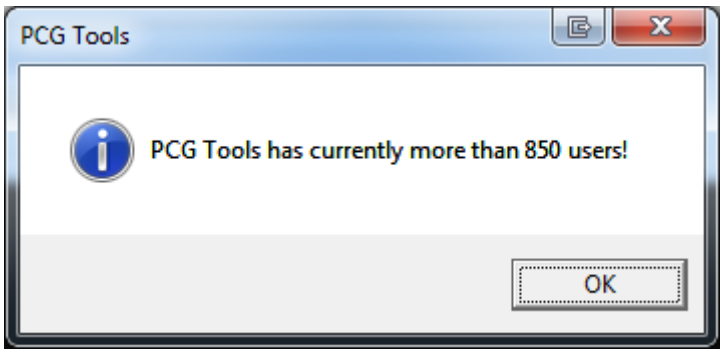


Figure 12: Special Event

6.7 Tools Menu

This menu shows different kind of tools:

- Master File, see paragraph 7.4
- Set List Generator, see paragraph 7.6.

6.8 Theme Menu

This menu shows three different types of GUI Skins that can be used for showing files:

- Generic (Pre Windows XP Theme), see Figure 13.
- Luna (Windows XP Theme), see Figure 14.
- Aero (Windows Vista/Windows 7 Theme), see Figure 15.

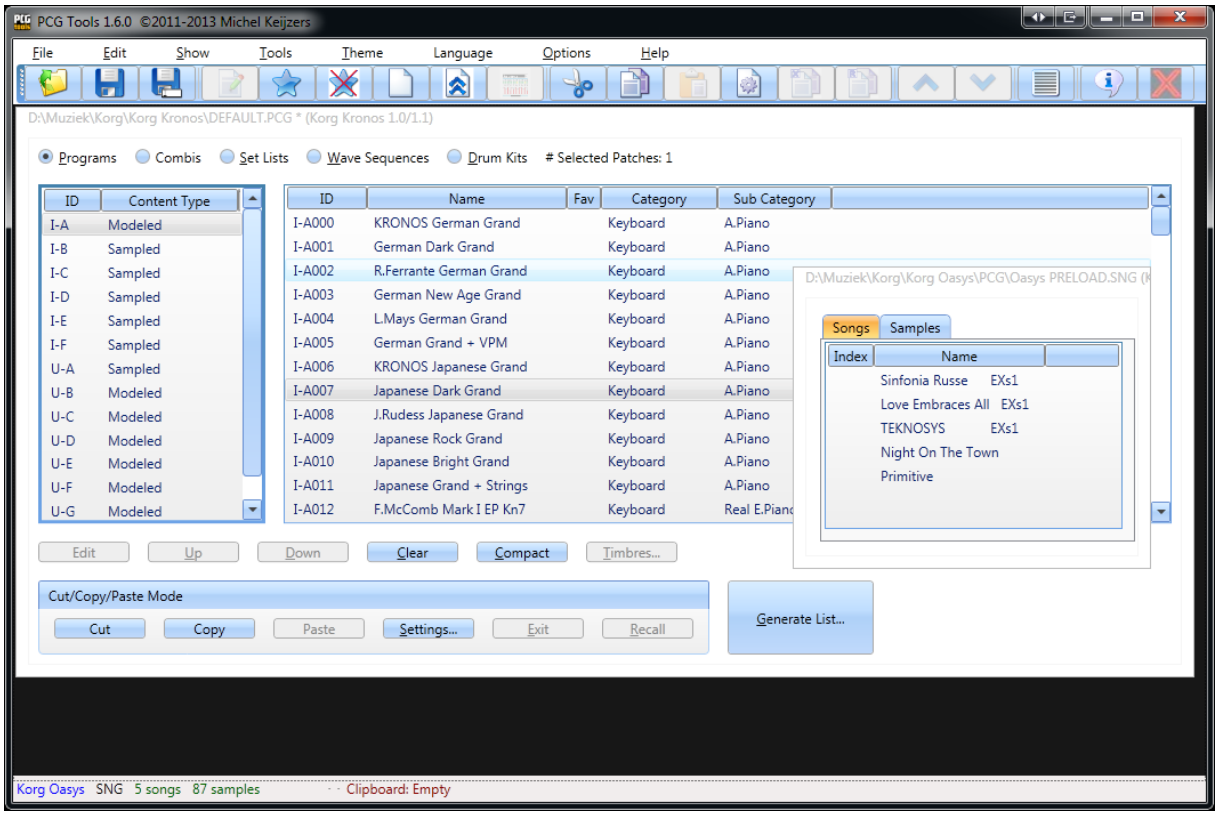


Figure 13: Generic Theme

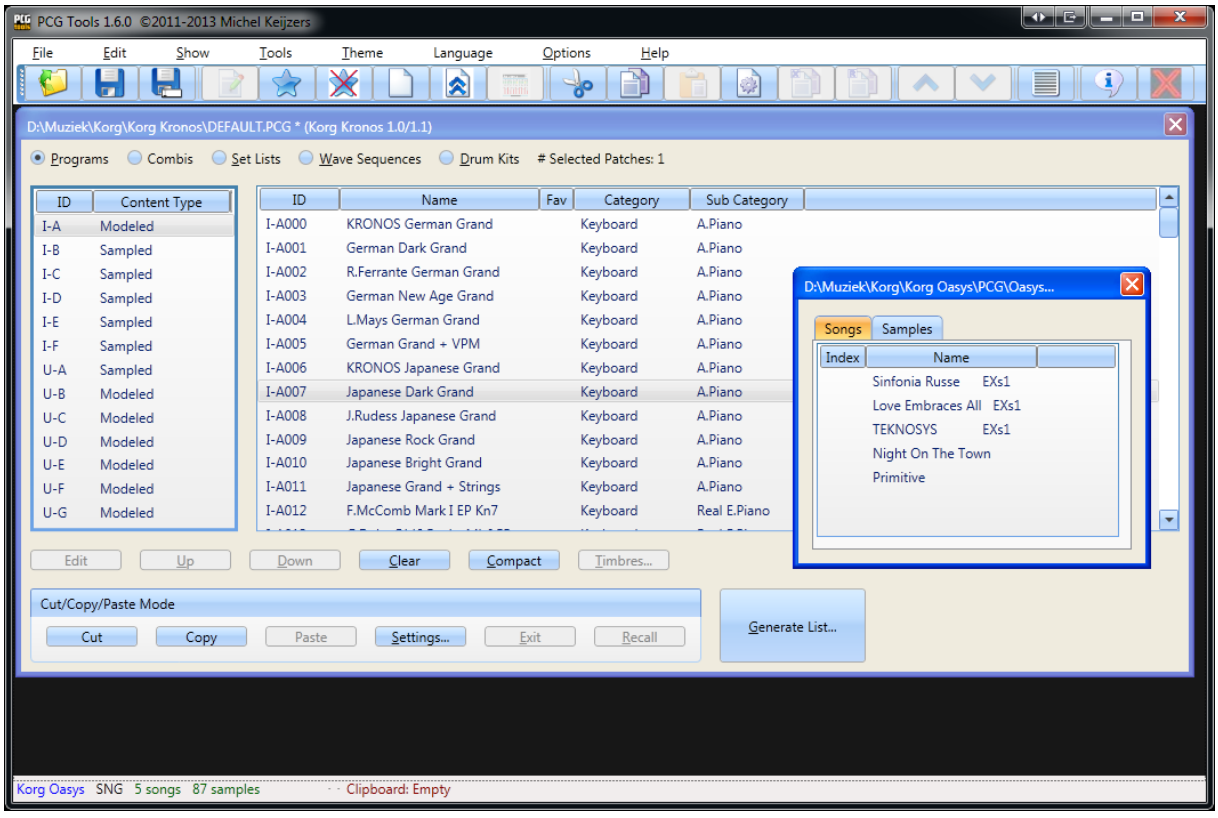


Figure 14: Luna Theme

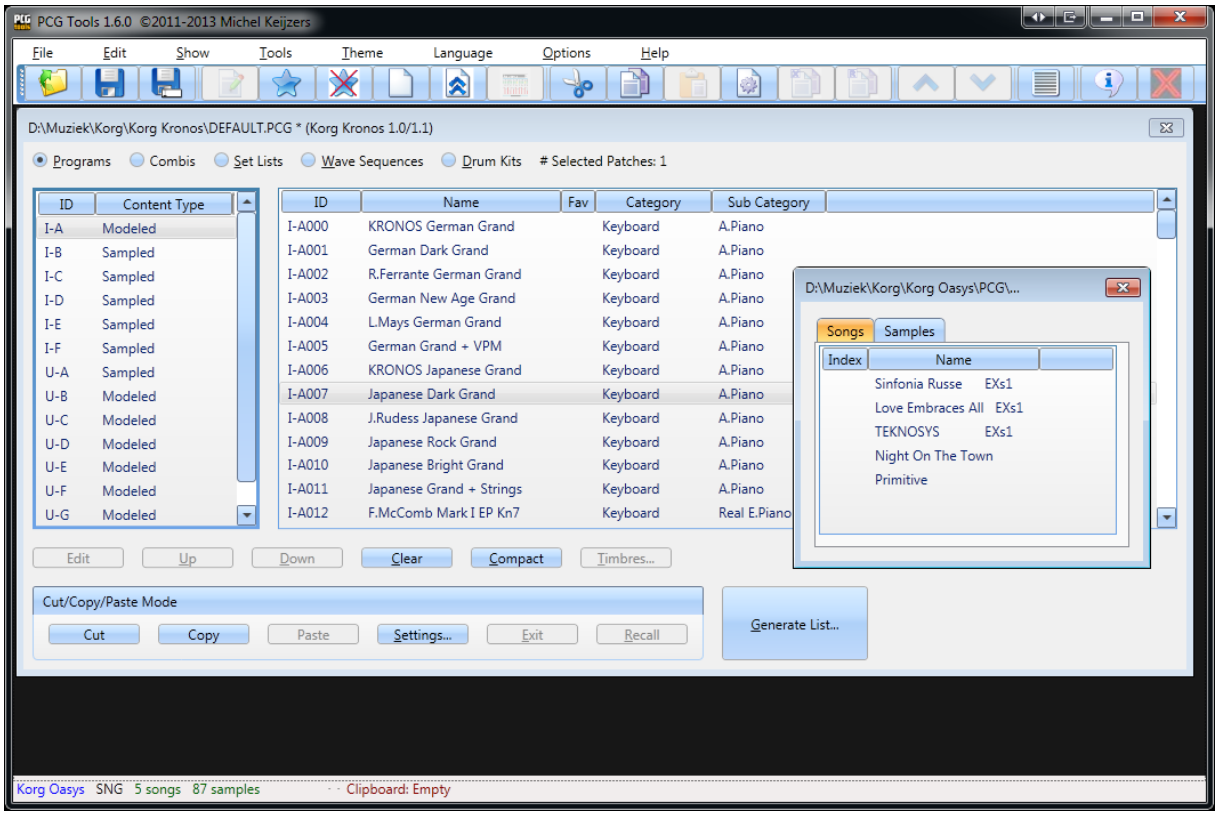


Figure 15: Aero Theme

6.9 Languages Menu

Figure 16 shows the installed languages.

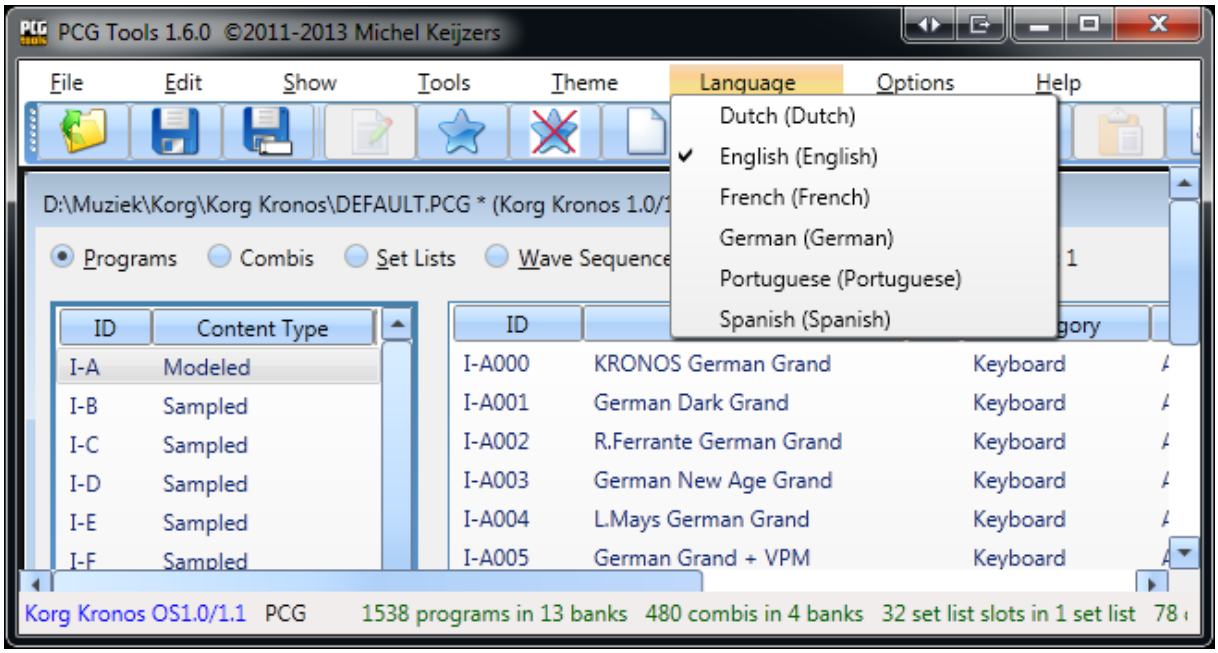


Figure 16: Language Menu

When selecting another language, Figure 17 is shown. Only when the application is restarted, the selected language will take effect. It is possible to change the language again before restarting. Then the last selected language will be used when restarting the application the next time.

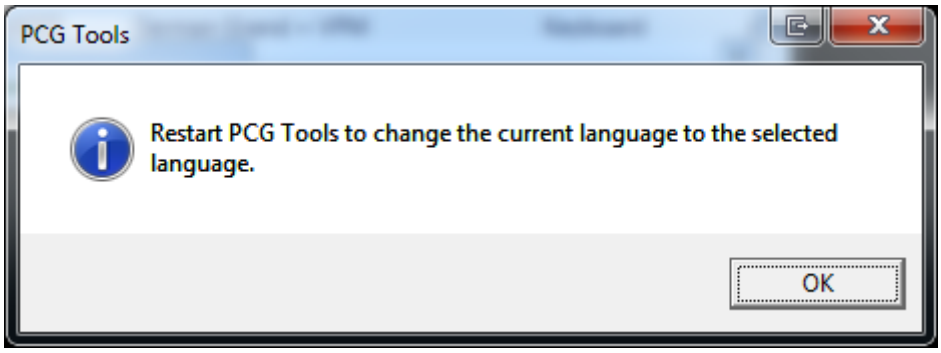


Figure 17: Language change

6.10 Options Menu

6.10.1 Settings

This window shows currently the cut/copy/paste settings. For more info, see paragraph 7.3.7.5.1.

Also the so called Clear Program can be assigned. For more info, see paragraph 7.5.2.4

6.11 Help Menu

This menu shows the manual and contains info about the application and external links.

6.11.1 Manual

This command shows this manual as PDF in your browser.

The following ways can be used to select this command:

- Select the Manual menu item in the Help menu

When selected, your default browser opens a PDF with the manual (same contents as this file). An internet connection is needed and the manual is at a shared link on DropBox.

Note that it can take some time before the manual is loaded in your browser, because it is a reasonably big file (about 5 MB).

6.11.2 About Command

This command is used for showing generic info about PCG Tools.

The following ways can be used to select this command:

- Select the About menu item in the Help menu.
- Select the About tool bar icon (white balloon with a blue i).

When selected, a window is shown like in Figure 18.

[TIP] If you find this application useful, please consider using the Donate option.

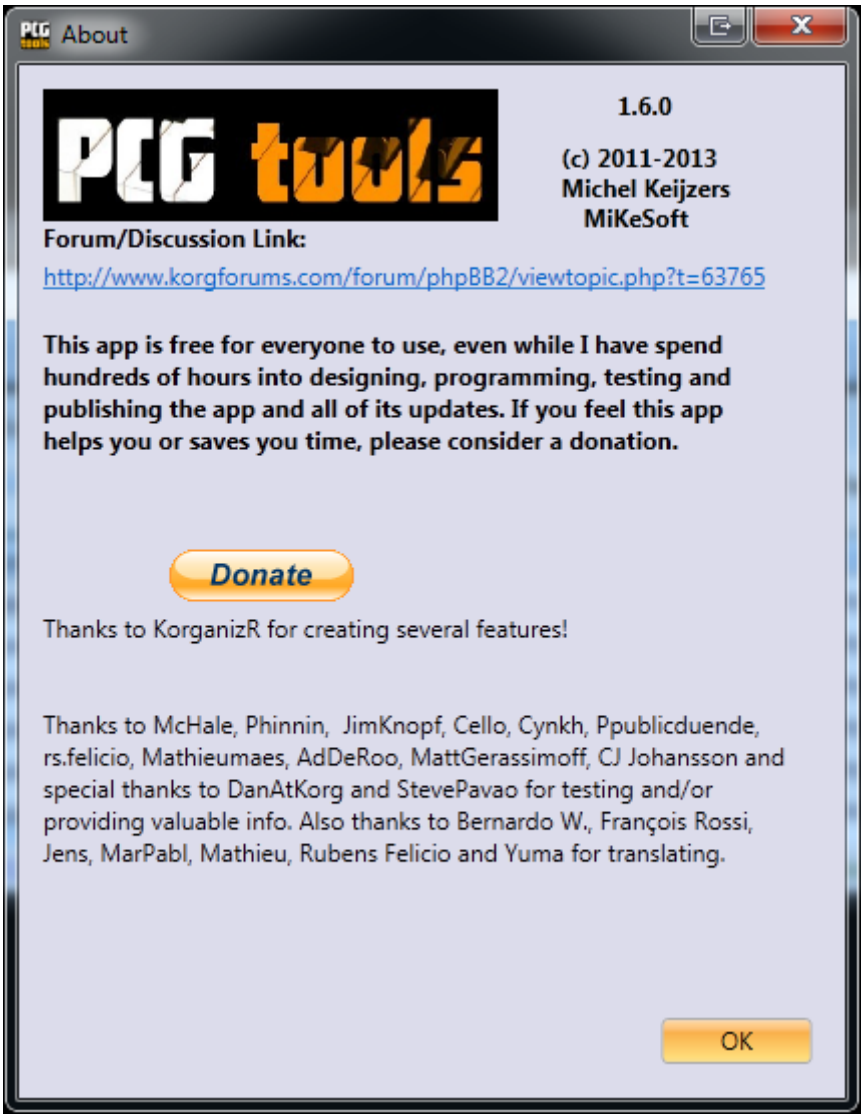


Figure 18: About window

6.11.3 External Links Command

This command is used for showing links/logos of sites related to Korg, donators, people who have worked at the application, translated languages, shops that are affiliated with PCG Tools, freeware tools I use for developing PCG Tools etcetera.

6.11.3.1 Korg related External Links

The following ways can be used to select this command:

- Select the External Links Korg Related menu item in the Help menu.

When selected, external links are shown which can be opened by the default browser as in Figure 19.

These links show the main site of PCG Tools (part of KorgForums), the social media links of PCG Tools, Korg related sites, sites that share patches for Korg workstations, external Korg applications, shops that affiliate PCG Tools and a few Korg related discussion forums. See Table 13 for all available links on this window.

Figure 19: Korg Related External Links

Korg Related External Links in alphabetical order

Icon / Title	Web Site	Description
Basari Studio	http://www.basaristudios.com/	Studio.
Forum Cifraclub, Brazil	http://forum.cifraclub.com.br/forum/8/	Brazilian site containing a PCG Tools thread and video in Portuguese.
Karo Sound Development	http://www.karo-sounds.com	Sounds for Korg Kronos and other Korg workstations.
Kid Nepro	http://www.kidnepro.com/KN/Korg/Korg.html	Sounds for various Korg models.
Korg	http://www.korg.com	Company Korg
Korg Forums	http://www.korgforums.com	The largest forum for Korg users
Korg Kronos AL-1 Editor	http://www.chrutil.com/kronos	Third party application for Korg Kronos, AL-1 editor.
Korgpatches	http://www.korgpatches.com	Collection of Korg PCG files for various Korg models.
Kronos Haven	http://www.kronoshaven.com	Information site for the Korg Kronos
Kronos-mw.com	http://kronos-mw.com/	Korg Kronos website in French language.
Kronoscopie (French)	http://www.kronoscopie.fr	Korg Kronos website in French language.
Muziekhuis Lyana	http://www.lyana.nl	Dutch music store.
Onksor	http://www.arweiler.onlinehome.de/onksor.html	Korg Kronos WYSIWYG Setlist Organizer application
Oostendorp Muziek	http://www.oostendorp-muziek.nl/	Dutch music store, has a dutch forum thread for PCG Tools.
PCG Tools	http://www.korgforums.com/forum/phpBB2/viewtopic.php?t=63765	Forum thread in korgforums for PCG Tools
PCG Tools on Facebook	https://www.facebook.com/PcgTools	Face book page for PCG Tools
PCG Tools on Twitter	https://twitter.com/pcgtools	Twitter page for PCG Tools
PCG Tools on Google Plus	https://plus.google.com/#117506377627258933594/posts	Google Plus page for PCG Tools
Robert Rosen	http://robertrosen.weebly.com	Collection of Korg PCG files for various Korg models.

Table 13: Korg Related External Links

6.11.3.2 Donators External Links

The following ways can be used to select this command:

- Select the External Links Donators menu item in the Help menu.

When selected, external links are shown which can be opened by the default browser as in Figure 20.

These links show the links/logos of people (or selected URL) from people who donated to PCG Tools. See Table 14 for all available links on this window.

Figure 20: Donators External Links

Donators External Links in alphabetical order

Icon / Title	Web Site	Description
Dreamland Recording Studio	http://www.dreamland-recording.de/	Dreamland recording studio in Marburg, Germany
Imprezariat	http://www.imprezariat.pl/	Polish site of DJ Adrian Craig
Keller12	http://www.keller12.de	German Electro-Rock Fun-Pop Formation.
The Supernatural Heroes (Belgian)	http://www.thesupernaturalheroes.com/	Belgium allround coverband
Toon Martens Project (Belgian)	http://www.toonmartensproject.net/	Progressive rock band

Table 14: Donators External Links

6.11.3.3 Translators External Links

The following ways can be used to select this command:

- Select the External Links Translators menu item in the Help menu.

When selected, external links are shown which can be opened by the default browser as in Figure 21.

These links show the links/logos of people (or selected URL) from people who helped with translating PCG Tools in another language. See Table 15 for all available links on this window.

Figure 21: Translators External Links

Translators External Links in alphabetical order

Icon / Title	Web Site	Description
Matthieu Maes	http://www.thesupernaturalheroes.be/nl	Belgium allround coverband
Yuma	https://soundcloud.com/#rmyuma	Songs created by Yuma.

Table 15: Translators External Links

6.11.3.4 Third Parties External Links

The following ways can be used to select this command:

- Select the External Links Third Parties menu item in the Help menu.

When selected, external links are shown which can be opened by the default browser as in Figure 22.

These links show the links/logos of third party tools used to develop PCG Tools. See Table 16 for all available links on this window.

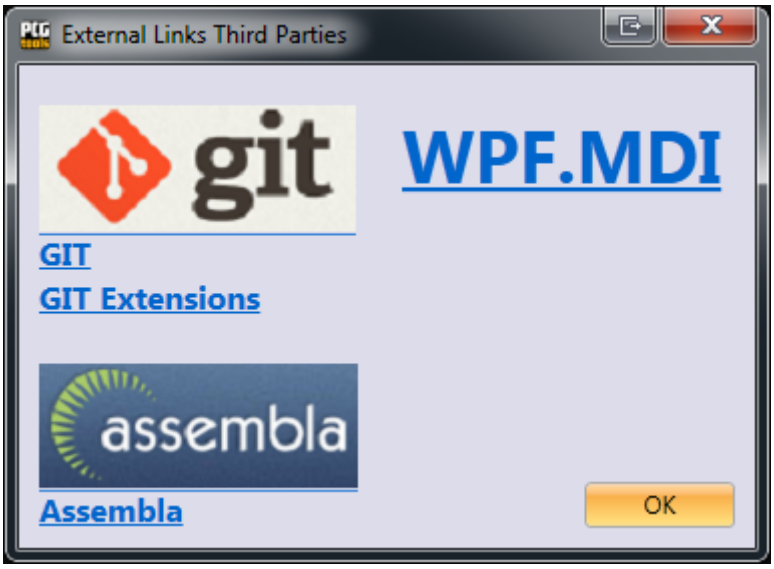


Figure 22: Third Parties External Links

Translators Third Parties External Links in alphabetical order

Icon / Title	Web Site	Description
Git	http://git-scm.com/	Source code version control system.
Git Extensions	http://sourceforge.net/projects/gitextensions/	Extension to use GIT inside Microsoft © Visual Studio.
WPF.MDI	http://wpfmdi.codeplex.com/	Library for Multiple Document Interface.
Assembla	https://www.assembla.com/home	Multi user online source code storage.

Table 16: Third Parties External Links

6.11.4 Oasys Codes Sponsors

Some persons donated part or full of their Korg Oasys voucher codes to Kronos owners, worth up to US $750.

On behalf of every Korg Kronos receiver of such a code, I would like to thank the following persons:

- Ian Hutty (Ianhu)

- Patrick Dumas (Fzero)

- Steve D (steved53)

- Frans van den Berg (Paulifra)

- Tim (t_tangent)

- SoulBe

- Adam P (Kontrol49)

For the screenshot, see Figure 23.

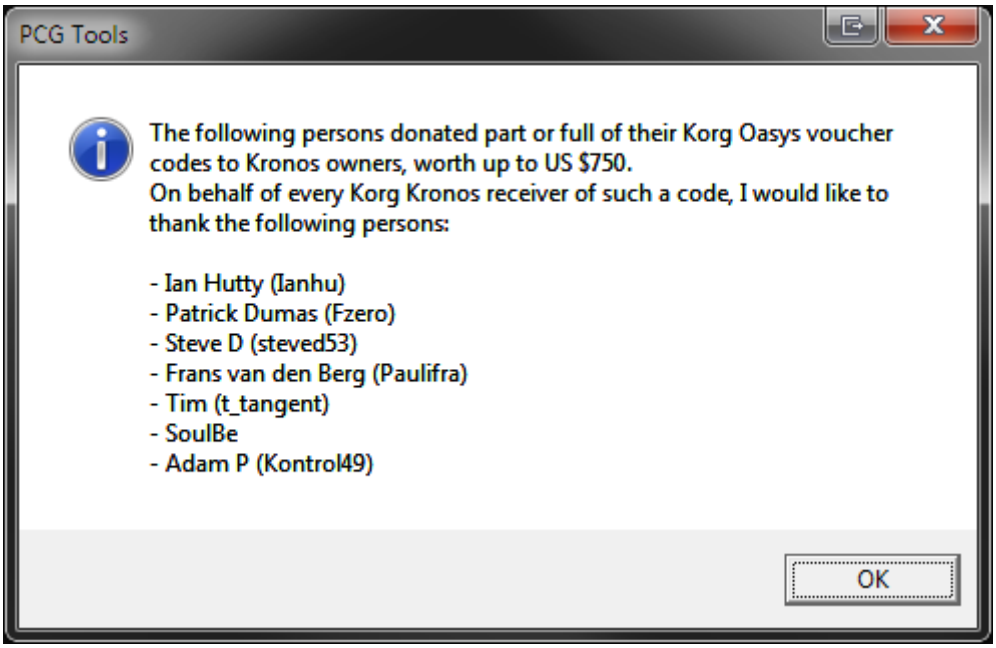


Figure 23: Oasys Codes Sponsors

6.12 Toolbar

The toolbar can be considered as a set of icons, functioning as short cuts for the menu (or controls like buttons) on the different screens. The most important commands are gathered in the toolbar and also are mentioned in the activation of the commands.

7 Using PCG Files

7.1 Introduction

This chapter is the main chapter of this manual, since it contains all explanation how to handle with PCG files in PCG Tools.

7.2 Status Bar

When a PCG file is opened the status bar shows a lot of information as shown in Figure 24.

Figure 24: Status Bar

The meaning and color of these items is shown in Table 17.

Item	Description	Color
Korg Kronos	Model of the Korg workstation (called workstation model) and if applicable, the PCG/OS version, see next paragraph. See *	Blue
PCG	Type of file (PCG file)	Black
1538 programs in 13 banks	Total of 1583 programs in 13 program banks, empty or initialized programs are not counted.	Green
480 combis in 4 banks	Total of 480 combis in 4 combi banks, empty or initialized combis are not counted.	Green
32 set list slots in 1 set list	Total of 32 set list slots in 1 set list, empty or initialized set list slots are not counted.	Green
78 drum kits in 4 banks	Total of 78 drum kits in 4 drum kit banks, empty or initialized drum kits are not counted.	Green
165 wave sequences in 2 banks	Total of 165 wave sequences in 2 wave sequence banks, empty or initialized wave sequences are not counted.	Green
Clipboard	Shows the number of programs, combis and set list slots that are present in the cut/copy/paste clipboard.	Red

Table 17: Status Bar Items

*Since most Korg Triton family PCG files cannot be differentiated, an active PCG file for the Triton is either showing 'Triton Extreme', 'Triton Classic/Studio/Rack' or 'Triton LE'. Other workstation models that are displayed can be Kronos (X), Oasys, M3, M50, Krome and Karma.

When multiple PCG files are opened, the status bar shows the information of the selected PCG file (window).

7.2.1 PCG/OS Version

The PCG/OS version is displayed only for those workstation models in combination with PCG/OS versions where the difference is important. These are the following:

- Korg Kronos version 1.0/1.1
- Korg Kronos version 1.5/1.6
- Korg Kronos (X) version 2.0
- Korg M3 version 1.x

- Korg M3 version 2.0 (expanded)

7.3 PCG Window

7.3.1 Introduction

When a PCG file is opened a window is shown, a so called PCG window. In Figure 25 such a window is shown.

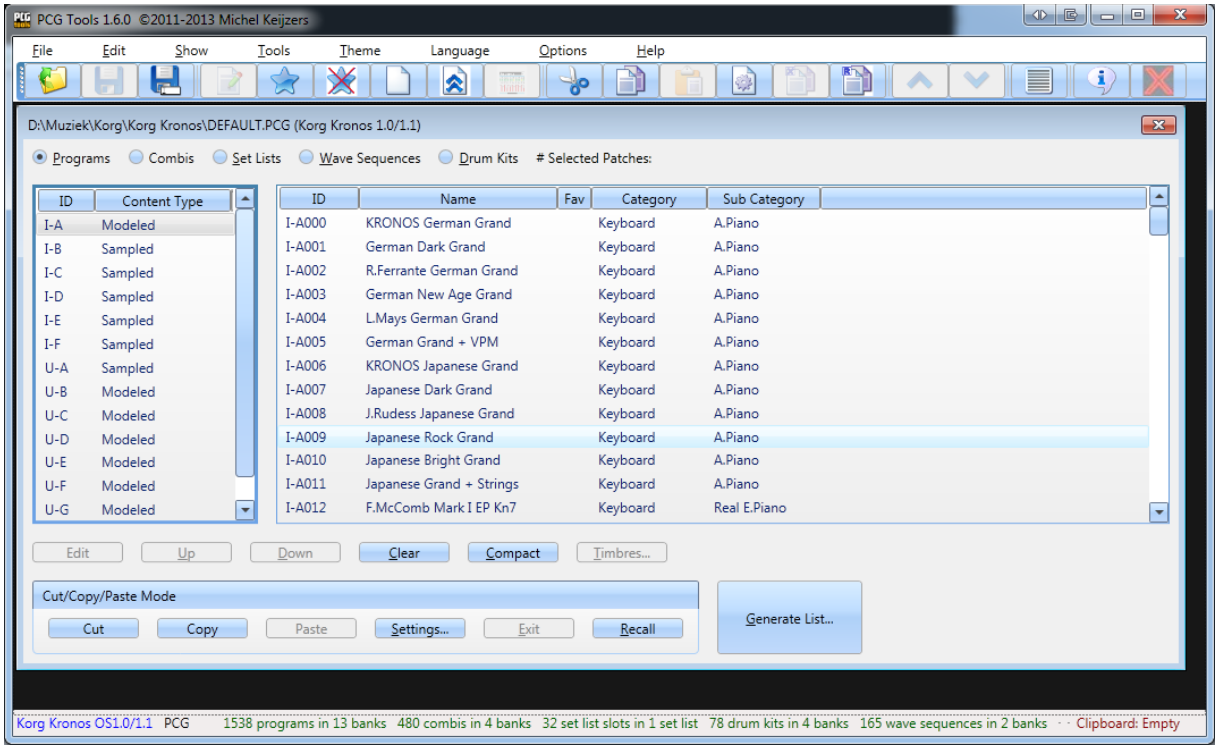


Figure 25: PCG Window

When a PCG window is made smaller, the controls on the window are automatically wrapped. This is ideal for users with a small screen. See Figure 26 for an example.

Note that the toolbar and the status bar is not wrapped.

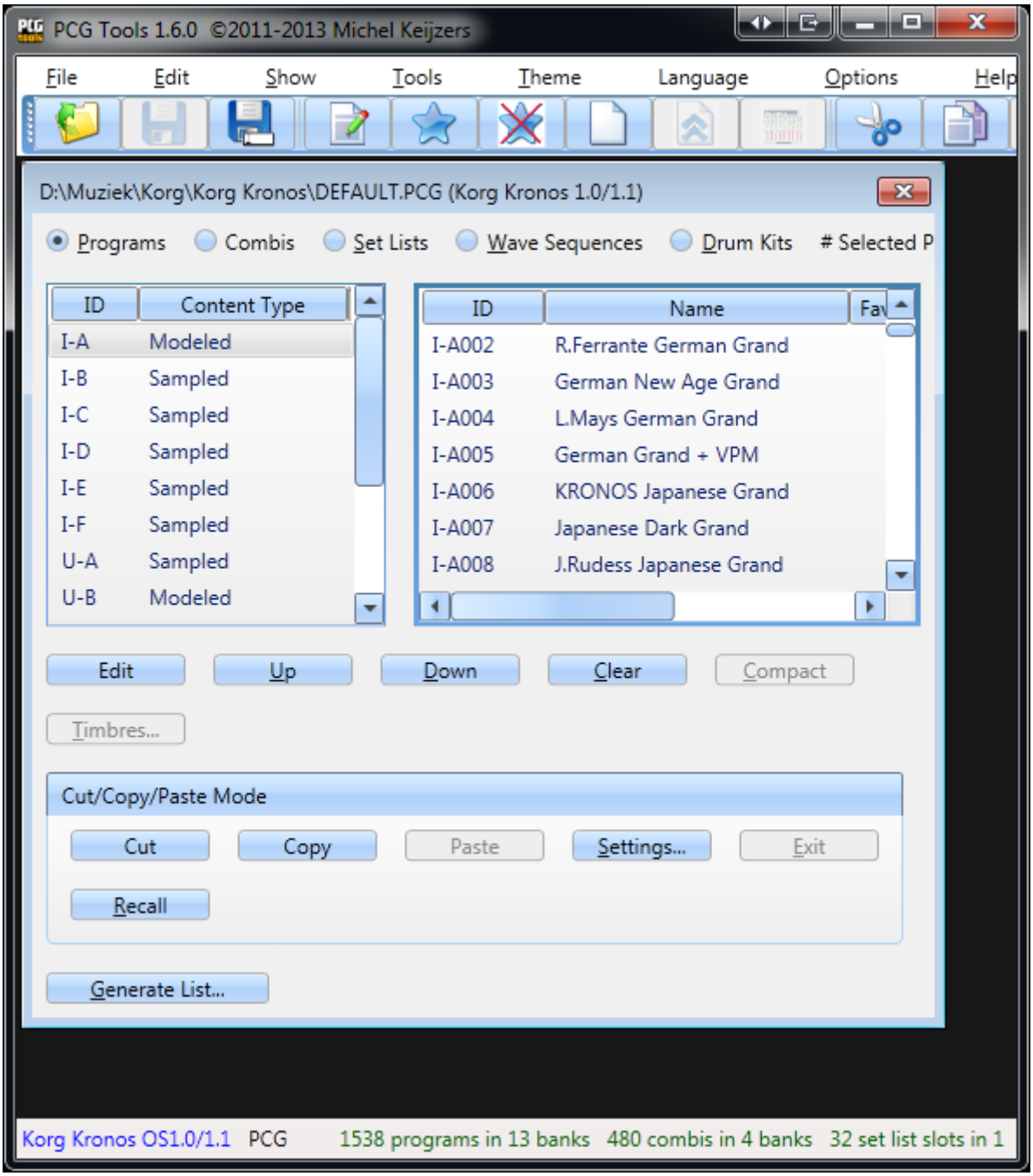


Figure 26: Wrapped PCG Window

In the following paragraphs each item of a PCG Window is explained in more detail.

7.3.2 Title

The title of a PCG window is the name of the PCG file including its path, in this case d:\Muziek\Korg\Korg Kronos\DEFAULT.PCG. Also the workstation model and version is added (Korg Kronos 1.0/1.1)

An asterisk is shown when the file is changed as an effect of one of the commands explained later.

7.3.3 Programs/Combis/Set Lists / Wave Sequences / Drum Kits Radio buttons

These five radio buttons can be used for selecting programs, combis, set lists (when supported), wave sequences (when supported) and drum kits.

7.3.4 Banks Listview (Left side)

A PCG window has two list views, one on the left and one on the right. The left list view is called the Banks Listview and contains the program banks, combi banks, set lists, wave sequences or drum kits, depending on the radio button above. See Figure 27 for a screenshot .

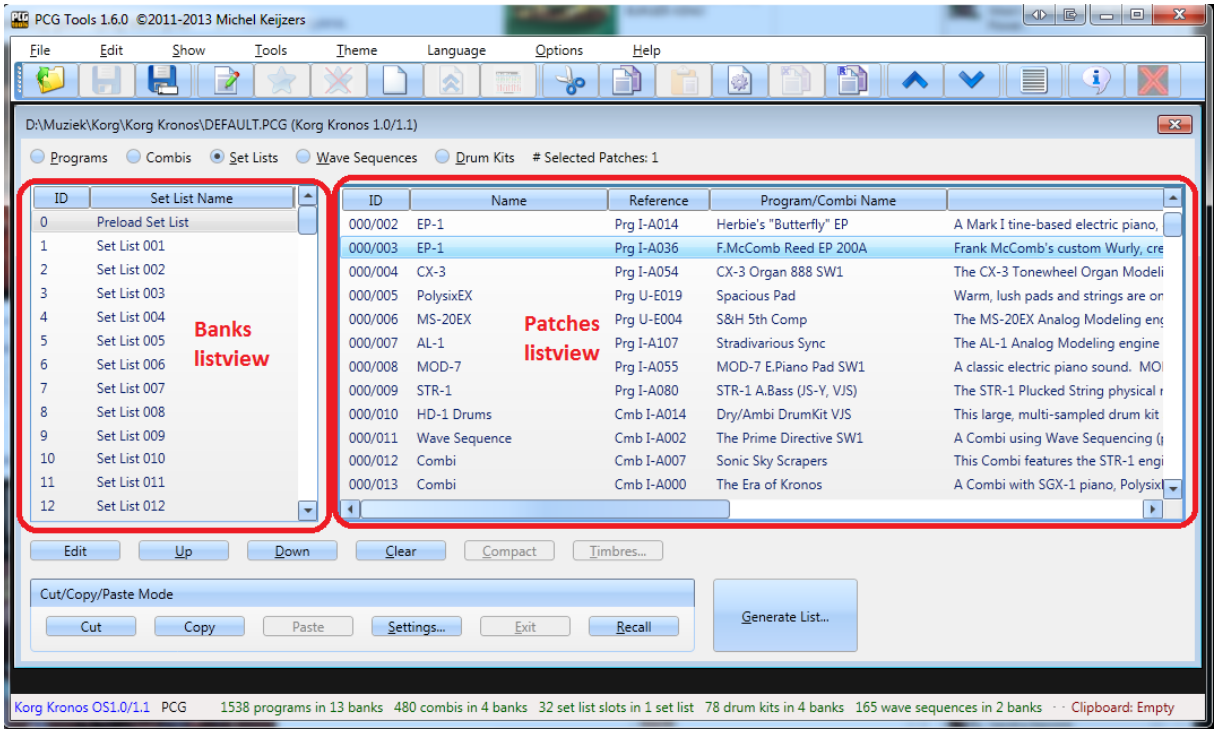


Figure 27: Listviews

7.3.4.1 Program Banks

When program banks are selected, the content type of each bank is shown. There are two different kinds:

- Modeled Programs: These are program banks with modeled programs, e.g. from an EXi (Kronos (X)/Oasys), Radias (M3) or MOSS (Tritons).
- Sampled Programs: These are programs banks using samples, e.g. from the HD1 engine (Kronos (X)/Oasys), EDS engine (M3, M50, Krome: EDS-X) or HI engine (Tritons, Karma).

A program bank only can contain programs of either modeled types or sampled types.

The GM banks are not shown because GM banks are not contained in a PCG file.

See Figure 28 for a screenshot.

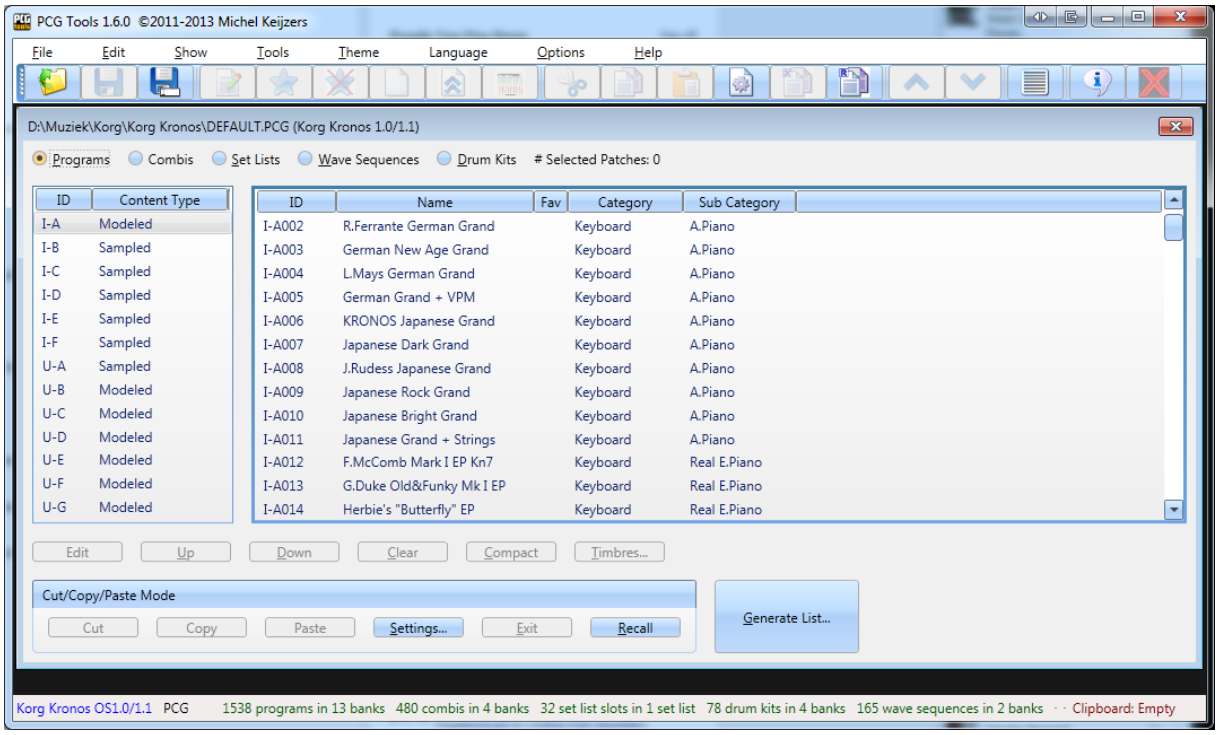


Figure 28: Program Banks

7.3.4.2 Combi Banks

Combi banks do not have additional information shown per bank. See Figure 29 for a screenshot.

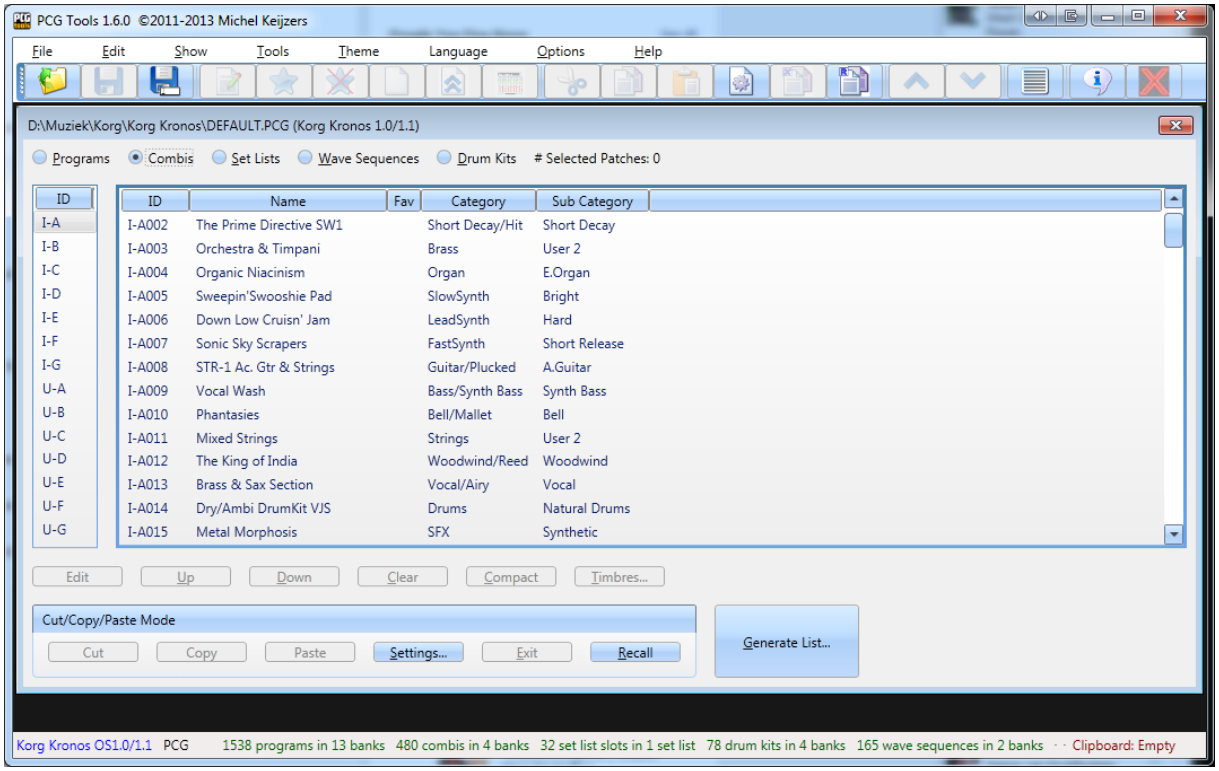


Figure 29: Combi Banks

7.3.4.3 Set Lists [KRONOS ONLY]

When set lists are selected, the ID (0-128) of the set list is shown and the name of the set list. See Figure 30 for a screenshot.

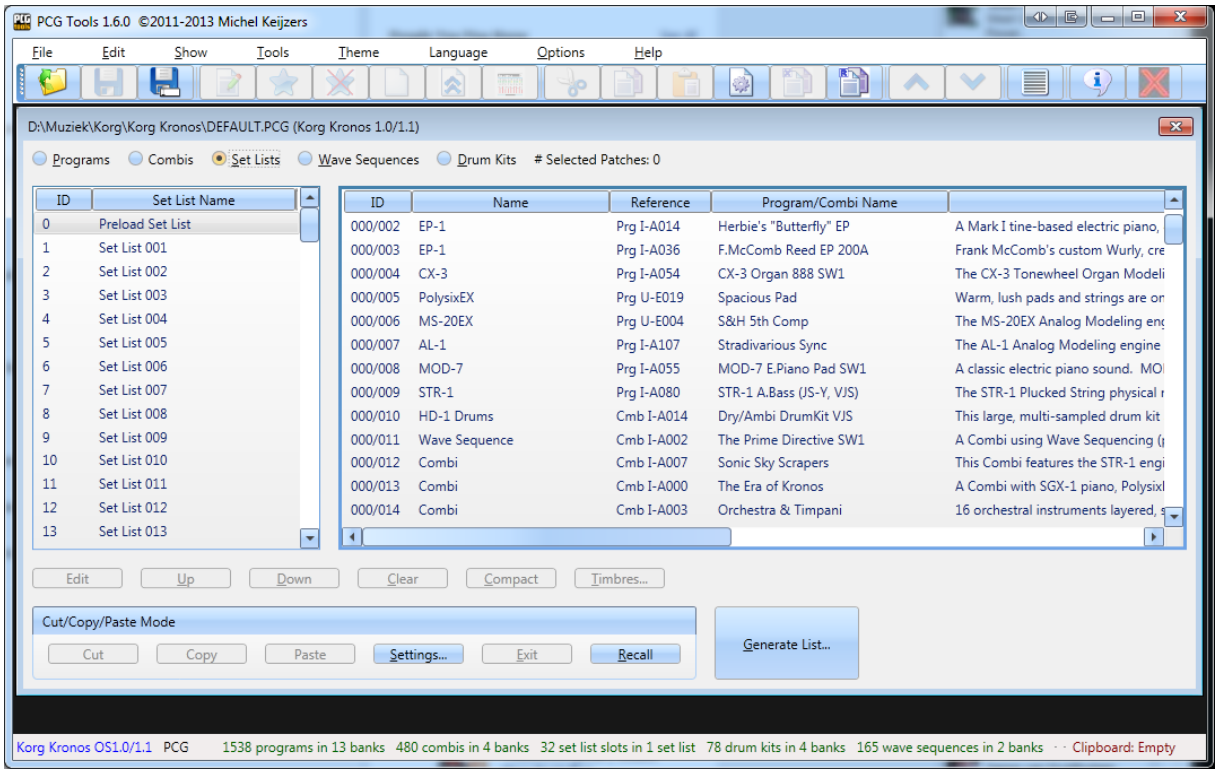


Figure 30: Set Lists

7.3.4.4 Wave Sequence Banks

When wave sequences are selected, the ID (0-128) is shown, see Figure 31 for a screenshot.

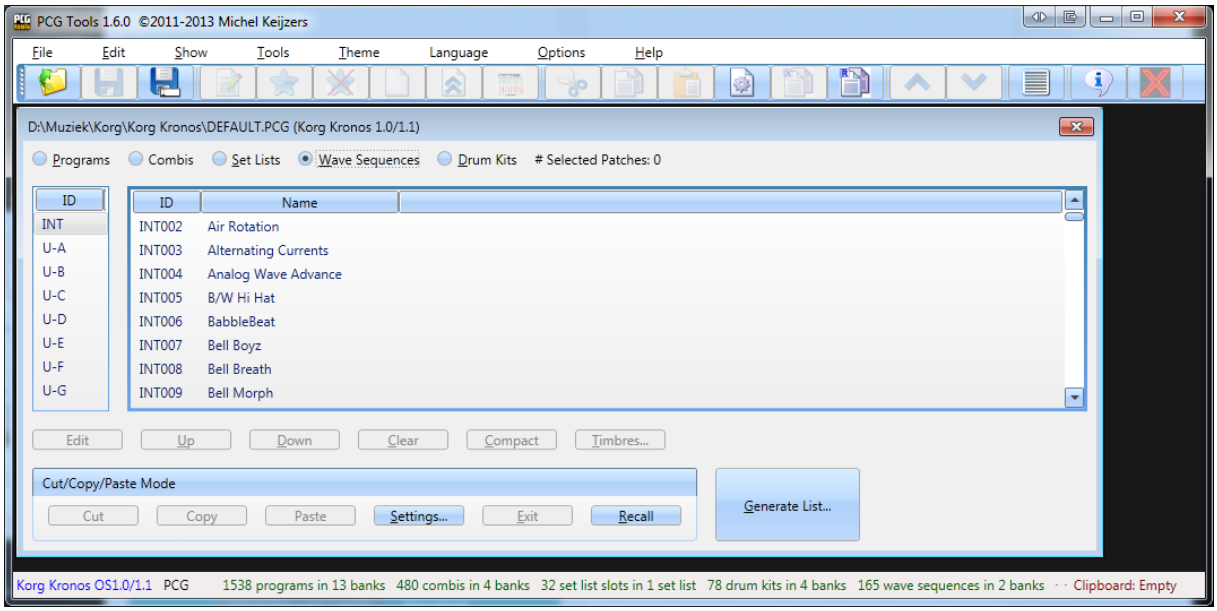


Figure 31: Wave Sequence Banks

7.3.4.5 Drum Kits Banks

When drum kits are selected, the ID (0-128) is shown, see Figure 32 for a screenshot.

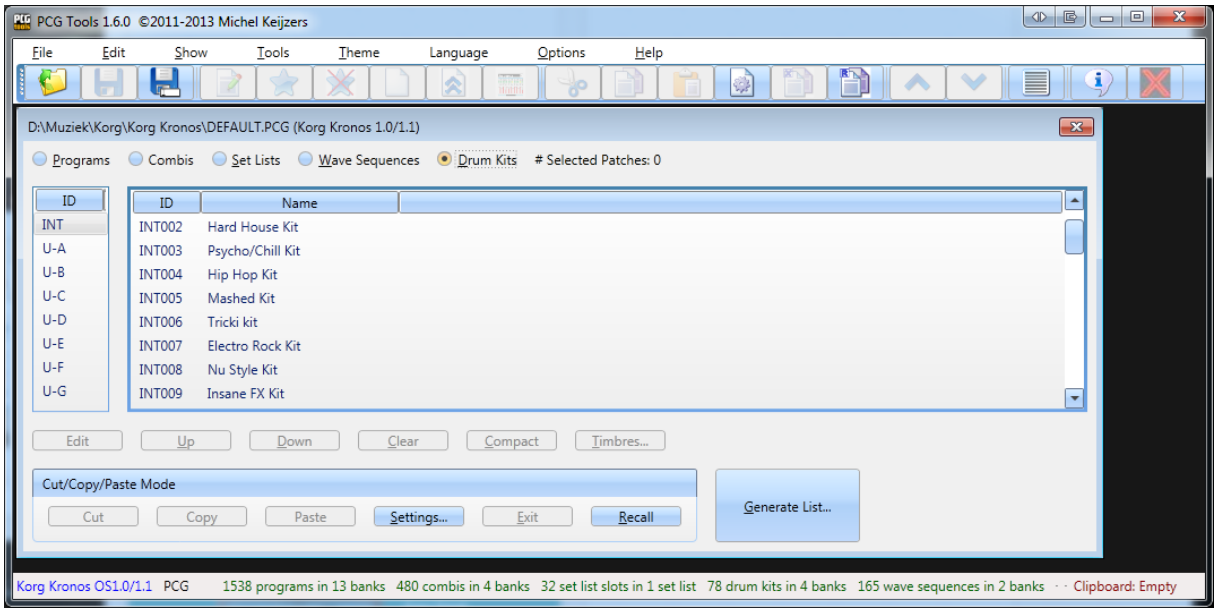


Figure 32: Drum Kits Bank

7.3.5 Patches Listview (Right side)

The right list view shows the patches, depending on whether programs, combis or set lists are selected and which bank has been selected. Only the patches shown from the first selected bank in the Banks Listview are shown.

7.3.5.1 Number of Selected Patches

Most banks will have 128 items. To see in a glance how many patches are selected, this value is shown explicitly next to the type of patches shown (e.g. as: # Selected Patches: 25).

7.3.5.2 Programs/Combis

When a program or combi bank is selected, the following information is shown per program/combi:

- ID: the unique ID of the program or combi, e.g. I-C124.
- Name: The name of the program or combi, e.g. "The Log Drum".
- Fav**:** Shows an asterisk if the program/combi is selected as favorite. **[KRONOS ONLY]**
- Category: Shows the category where the program/combi is assigned to.
- Sub Category: Shows the sub category where the program/combi is assigned to.

See Figure 33 for a screenshot of programs.

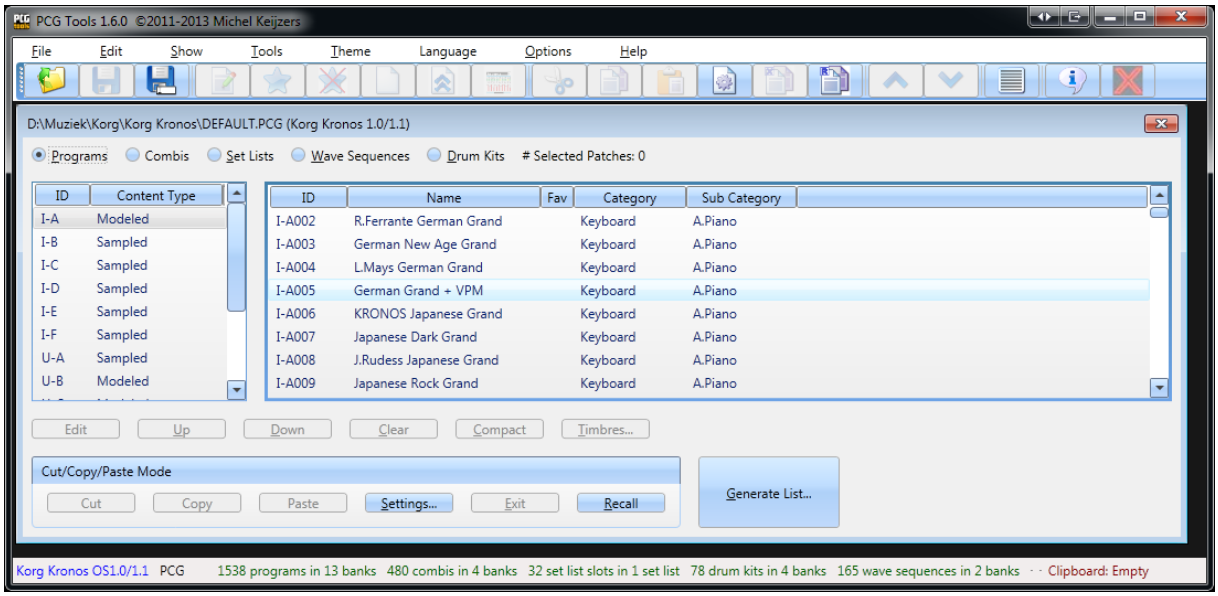


Figure 33: Programs

7.3.5.3 Set List Slots [KRONOS ONLY]

When a set list is selected, the following information is shown per set list slot:

- ID: the unique ID of the set list slot in format <set list>/<set list slot>, e.g. 024/037 means set list 37 inside set list 24.
- Name: The name of the set list slot.
- Ref: The reference of the set list slot: can be either a program or combi, examples are Prg I-A000, Cmb I-A003 etc.
- Program/Combi Name: The name of the referenced ID, e.g. "Stradivarious Sync".
- Description: The text that can be assigned to a set list slot.

See Figure 34 for a screenshot.

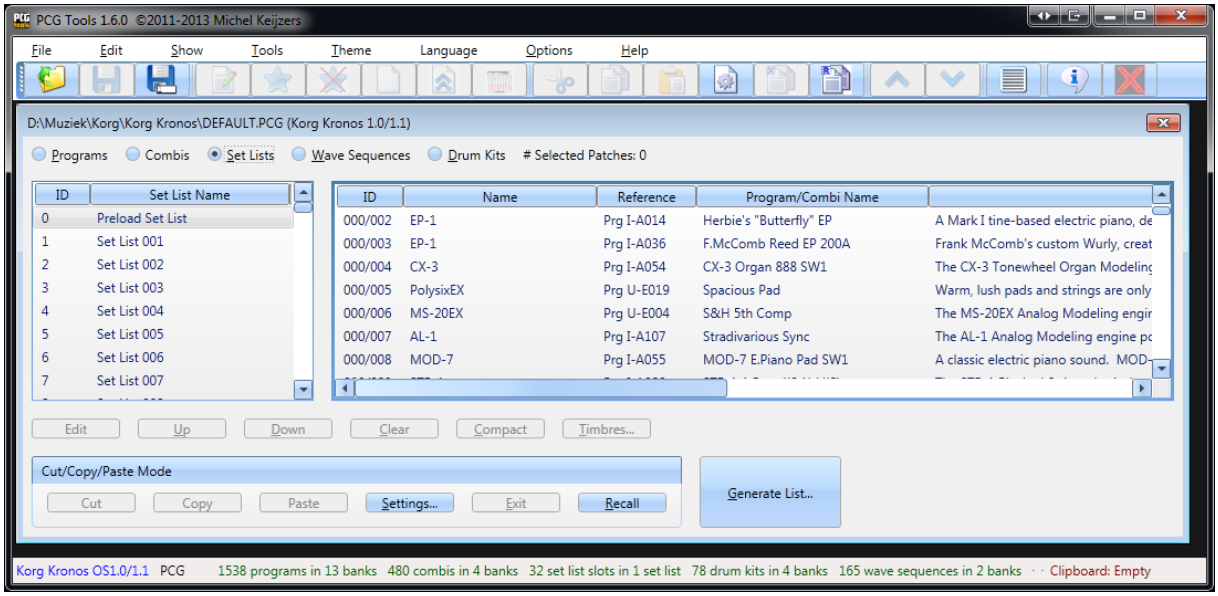


Figure 34: Set List Slots

7.3.5.4 Wave Sequences and Drum Kits

When wave sequences or drum kits are selected,, the following information is shown per wave sequence resp. drum kit:

- ID: the unique ID of the wave sequence resp. drum kit.
- Name: The name of the wave sequence resp. drum kit.

See Figure 34 for a screenshot.

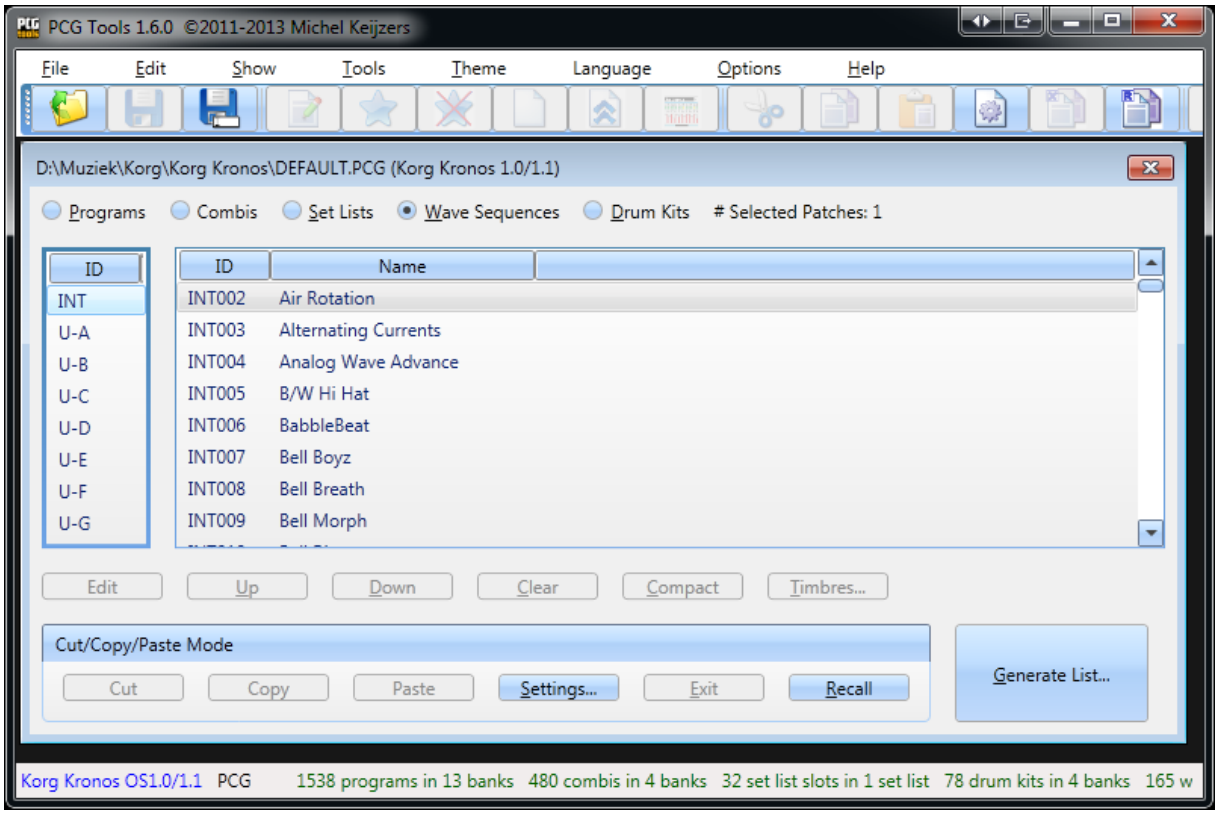


Figure 35: Wave Sequences

7.3.6 Generic Commands

Below the banks and patches list, the buttons for all commands are shown. See Figure 36 for a screenshot.

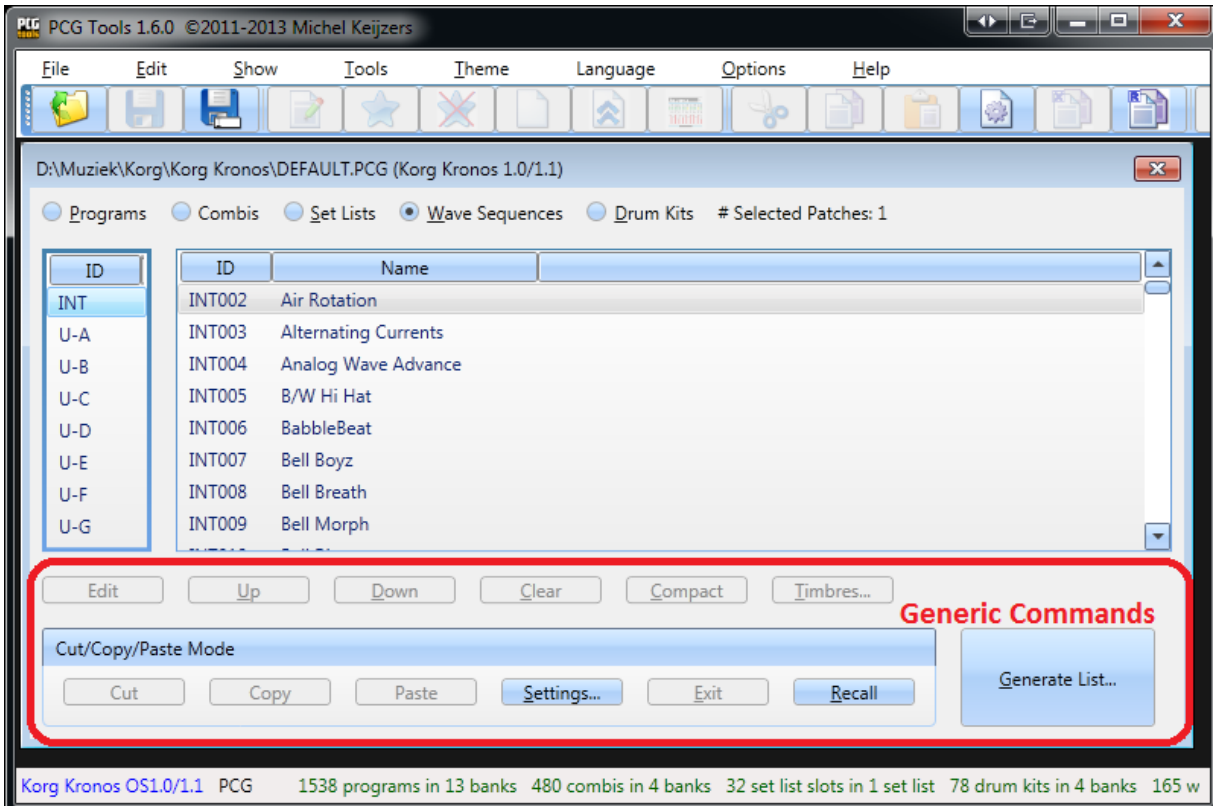


Figure 36: Generic Commands

These buttons have a different meaning depending on whether banks are selected or patches (i.e. the Banks Listview or the Patches Listview). Which list is selected, can be seen by the thick grey border around the current selected list.

One or multiple items in a list can be selected. Some commands only can be activated when one or more banks are selected, some commands only when one or more patches are selected, and some can be selected in either list. This will be shown in the activation prerequisite in each command paragraph.

The second row of buttons are the cut/copy/paste buttons.

[WARNING]: Most commands cannot be undone, be especially careful with the Edit, Clear and Compact commands.

7.3.6.1 Edit Command

This command can be used to change certain parameters of the selected patch. Depending on the type (program, combi or set list) a different dialog is shown. For wave sequences and drum kits the edit command is not available.

Activation prerequisite: select exactly one program, combi or set list slot in the patches list.

The following ways can be used to select this command:

- Select the Edit menu item in the Edit menu
- Select the Edit tool bar icon in the tool bar (white document with the green pencil)
- Click the Edit button
- Double clicking on a patch
- Press F2 key
- Press Alt-e until the Edit button is highlighted and press Enter

7.3.6.1.1 Edit Program

When a program is selected, the dialog in Figure 37 is shown.

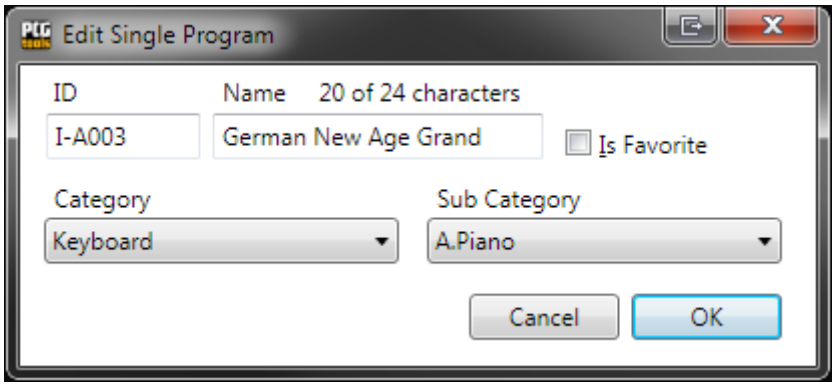


Figure 37: Edit Program

Table 18 shows what info is shown and can be changed.

Item	Type	Description
ID	Read only	Unique ID of the program.
Name	Editable	Name of the program including the current and maximum number of characters that can be used. The maximum number of characters depends on the workstation model.
Is Favorite	Editable	Selects whether the program is set as favorite or not. **[KRONOS ONLY]**
Category	Editable	Category of the program.
Sub Category	Editable	Sub category of the program.

Table 18: Edit Program Items

PCG files optionally contain the Global part, which contains the names of the categories and sub categories. If the Global part is available, the names of categories and sub categories are shown in the two combo boxes shown in Figure 37, if not the index numbers are shown.

If you try to enter a name that is too long (the maximum length depends on the workstation model), the error 'Name too long' is shown in red (see Figure 38) and the OK button will be disabled.

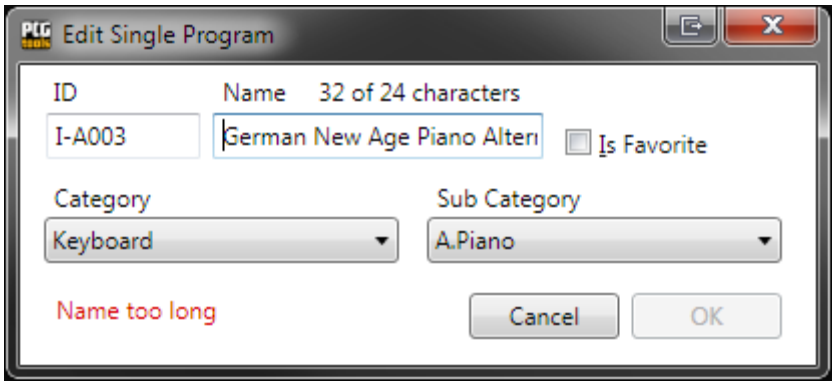


Figure 38: Program Name too long

7.3.6.1.2 Edit Combi

Editing a combi works exactly like editing a program (see Paragraph 7.3.6.1.1).

7.3.6.1.3 Edit Set List Slot [KRONOS ONLY]

When a set list slot is selected, the dialog in Figure 39 is shown.

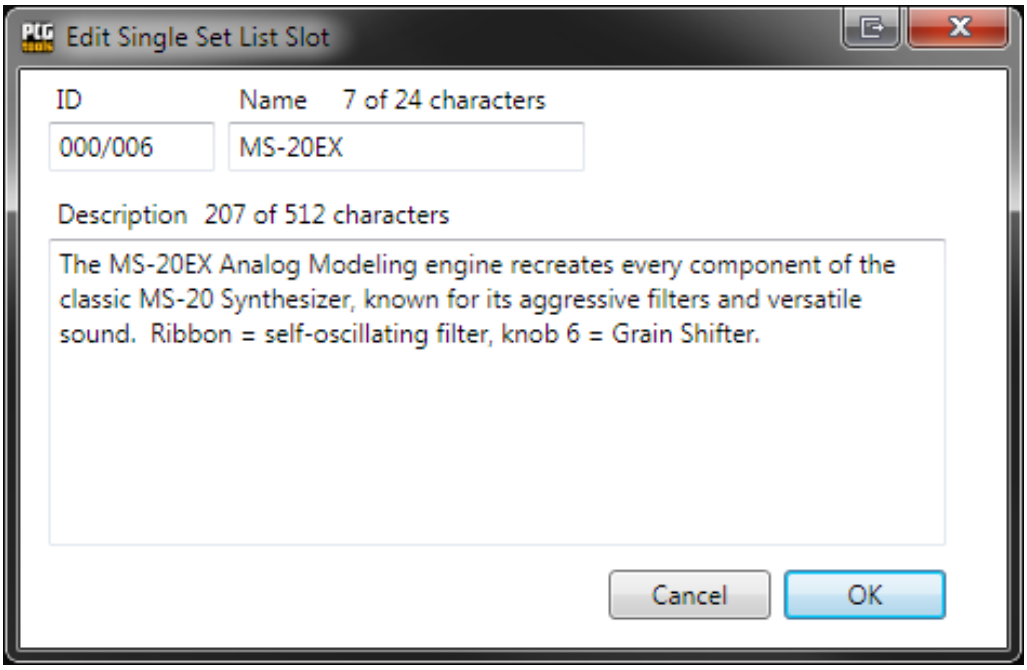


Figure 39: Edit Set List Slot

Table 18: Edit Program ItemsTable 19 shows what info is shown and can be changed.

Item	Type	Description
ID	Read only	Unique ID of the program.
Name	Editable	Name of the set list slot including the current and maximum number of characters that can be used.
Description	Editable	Description of the set list slot including the current and maximum number of characters that can be used.

Table 19: Edit Set List Slot Items

If you try to enter a name or description that is too long (the maximum length depends on the Korg model), the error 'Name too long' or 'Description is too long' is shown in red (see) and the OK button will be disabled. See Figure 40 for an example of a description that is too long.

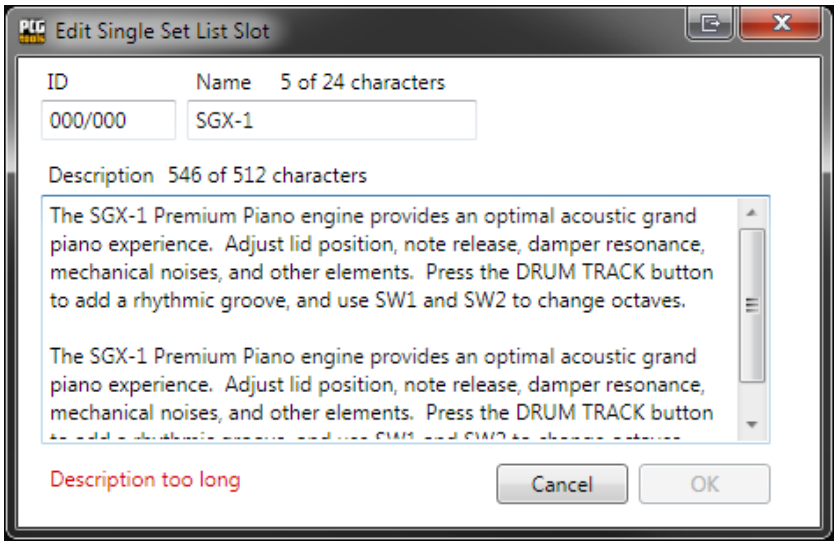


Figure 40: Set List Slot Description Too Long

For the name and description, the character set that can be used is equal to the character set of the on screen keyboard of the Kronos. However, for descriptions it is possible to enter linefeed/return characters, which will also cause a linefeed/return to be shown in the Kronos display. A linefeed/return character costs 2 characters instead of one. When changing the description text on the Kronos the linefeed/return characters, the cursor will be misaligned, so it is best to use this dialog screen for editing descriptions.

When returning to the PCG Window (after closing the Edit screen), when using line feeds/returns the set list slots look like (after selecting several set list slots).

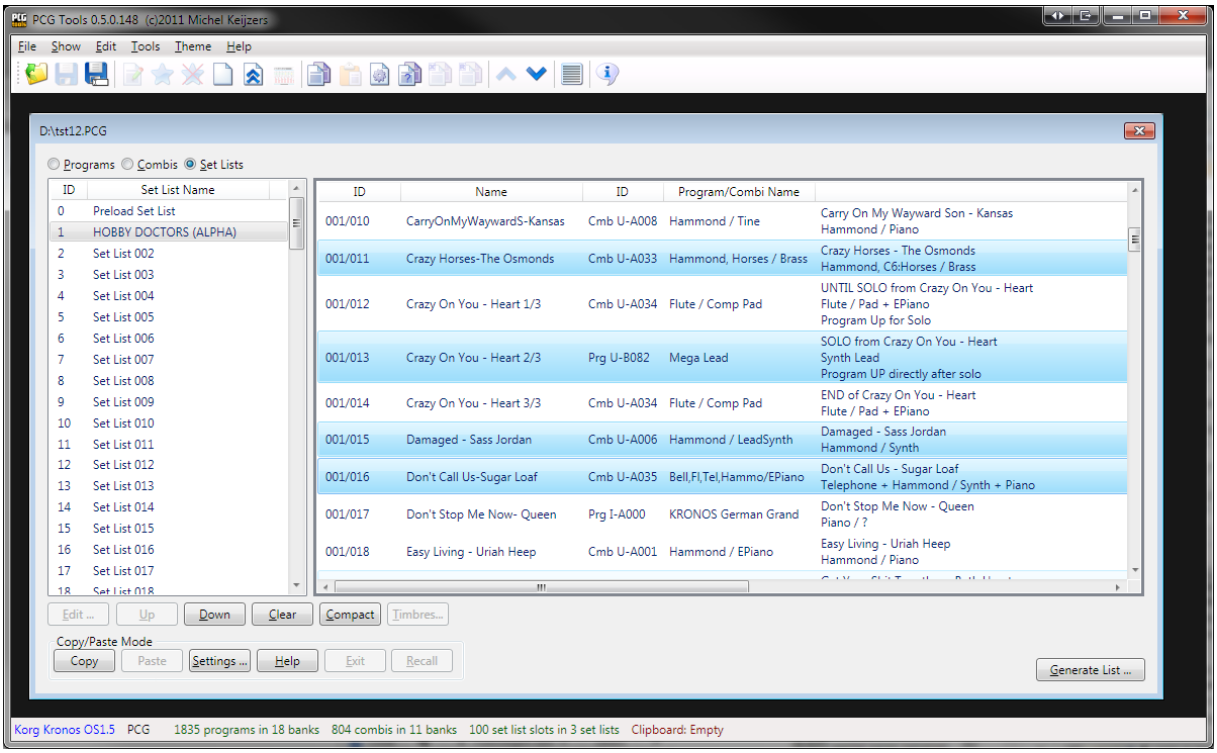


Figure 41: Set List Slots with Line Feeds/Returns

7.3.6.2 Move Up Command

This command moves the selected program, combi or set list slot one position up. Wave sequences and drum kits cannot be moved.

Activation prerequisite: select exactly one patch (not the first patch) in the patches list.

The following ways can be used to select this command:

- Select the Move Up menu item in the Edit menu.
- Select the Move Up tool bar icon in the tool bar (blue half arrow pointing up)
- Click the Up button.
- Press the up cursor key on the numeric keyboard (on the 8 key).
- Press Alt-u until the Up button is highlighted and press Enter.

When moving a program, all combis and set list slots referring to the selected program (and programs moved down to let the selected programs move up) are changed accordingly.

When moving a combi, all set list slots referring to the selected combi (and combis moved down to let the selected combis move up) are changed accordingly too.

7.3.6.3 Down Command

This command moves the selected program, combi or set list slot one position down. Wave sequences and drum kits cannot be moved.

Activation prerequisite: select exactly one patch (not the last patch) in the patches list.

The following ways can be used to select this command:

- Select the Move Down menu item in the Edit menu.
- Select the Move Down tool bar icon in the tool bar (blue half arrow pointing down)
- Click the Down button.
- Press the Down cursor key on the numeric keyboard (on the 2 key).
- Press Alt-d until the Down button is highlighted and press Enter.

When moving a program, all combis and set list slots referring to the selected programs (and programs moved down to let the selected programs move up) are changed accordingly.

When moving a combi, all set list slots referring to the selected combis (and combis moved up to let the selected combis move down) are changed accordingly too.

7.3.6.4 Clear Command

This command clears or erases the selected programs, combis or set list slots or all patches in the selected program or combi banks or set lists. Wave sequences, wave sequence banks, drum kits and drum kit banks cannot be cleared.

Activation prerequisite: select one or more banks or one or more patches.

The following ways can be used to select this command:

- Select the Clear menu item in the Edit menu.
- Select the Clear tool bar icon in the tool bar (blank page)
- Click the Clear button.
- Press Alt-c until the Clear button is highlighted and press Enter.

This command behaves differently depending on whether the banks or patches list is active.

When banks are active, all patches in the selected banks will be cleared. When patches are active, only all selected patches will be cleared.

Clearing a patch is not equal to initializing them.

Clearing a program means:

- Clearing the name (empty name).
- Setting the category (and if supported sub category) to the first category/sub category.
- Deselect the Favorite setting **[KRONOS ONLY]**

[WARNING]: When clearing programs, combis/set list slots using those programs are not broken, but it will not be trivial that empty programs are still used by combis/set list slots.

Clearing a combi means:

- Clearing the name (empty name).
- Setting the category and sub category to the first category/sub category.
- Deselect the Favorite setting
- Clearing the most important parameters of all timbres in thecombi:
    - Program set to I-A000 / A000 (depending on the workstation model).

- Status set to Off.
- Muted.
- Volume set to 0.
- MIDI Channel set to 16.
- Bottom/Top key set to the lowest key.
- Bottom/Top velocity set to 0.
- Osc Mode set to Mono.
- Osc Select set to OSC2.
- Transpose set to 0.
- Portamento set to 0.
- Bend Range set to 0.

[KRONOS ONLY] [WARNING]: When clearing combis, combi parameters are changed and set list slots using these cleared combis will not be audible anymore (equal to the cleared combis).

[KRONOS ONLY] Clearing a set list slot means:

- Clearing the name (empty name).
- Clearing the description (empty description)
- Set the reference to program I-A000.
- Setting the category and sub category to the first category/sub category.

Figure 42 shows the result of clearing the selected patches.

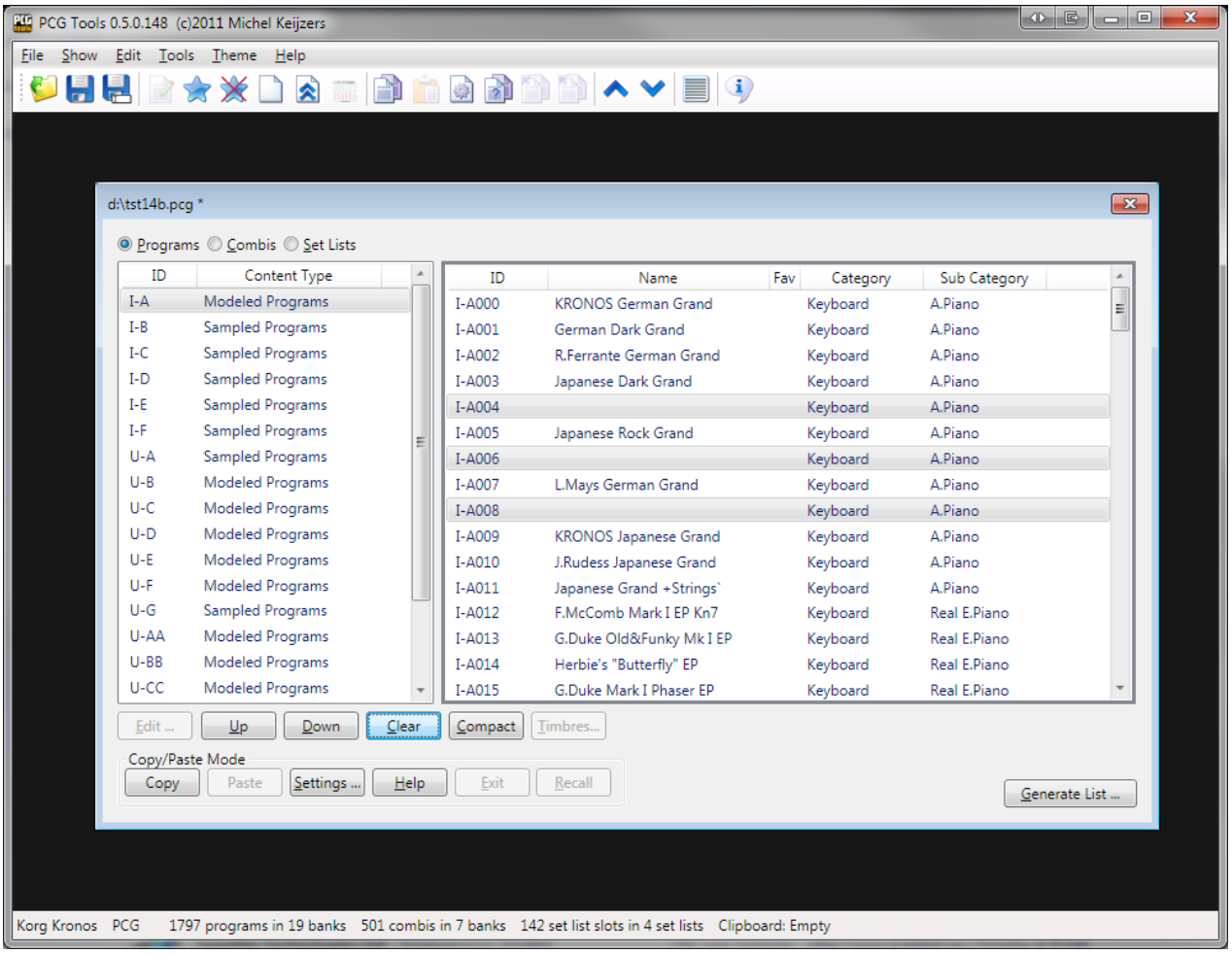


Figure 42: Clear Command

[TIP]: The reason to clear/empty the names instead of giving them a initialized name (e.g. INIT PROGRAM I-A030) is that emptying them shows in a glance that those patches are empty. If you want to create a new sound, initialize the patch on the workstation to start from a 'real' initialized patch .

[TIP]: A quick way to remove patches you don't like is to load the PCG file that is currently in your workstation, audition patches on your workstation and if you find one or more patches, select them in PCG Tools and clear them. Do not make changes on your workstation. When finished, save the PCG file and load it in your workstation.

[TIP]: After clearing patches, there might be gaps with empty patches within your bank(s). Consider to use the Compact command to remove these empty gaps.

[TIP]: Note that deleting a patch is not possible, since there are always 128 patches in a bank (or set list). What comes most close to deleting a patch is to clear a patch, and then use the Compact command to move the cleared patch to the bottom.

7.3.6.5 Compact Command

This command moves all empty or initialized programs, combis or set list slots down and all filled patches up. Wave sequences and drum kits cannot be compacted.

Activation prerequisite: select one or more banks or at least two patches.

The following ways can be used to select this command:

- Select the Compact menu item in the Edit menu.
- Select the Clear tool bar icon in the tool bar (blank page)
- Click the Compact button.
- Press Alt-c until the Compact button is highlighted and press Enter.

Compacting should be used to remove the gaps that exist after clearing patches or when patches are splintered over a bank.

This command behaves differently depending on whether the banks or patches list is active.

When patches are active, only all selected patches will be compacted. In Figure 43 several set list slots have been selected and some of them are empty. When the Compact command is used, all set list slots (also those which are initialized or empty) are moved up within the selection. Set list slots that are not selected are left alone, thus not moved. In Figure 44 the result is shown after compacting.

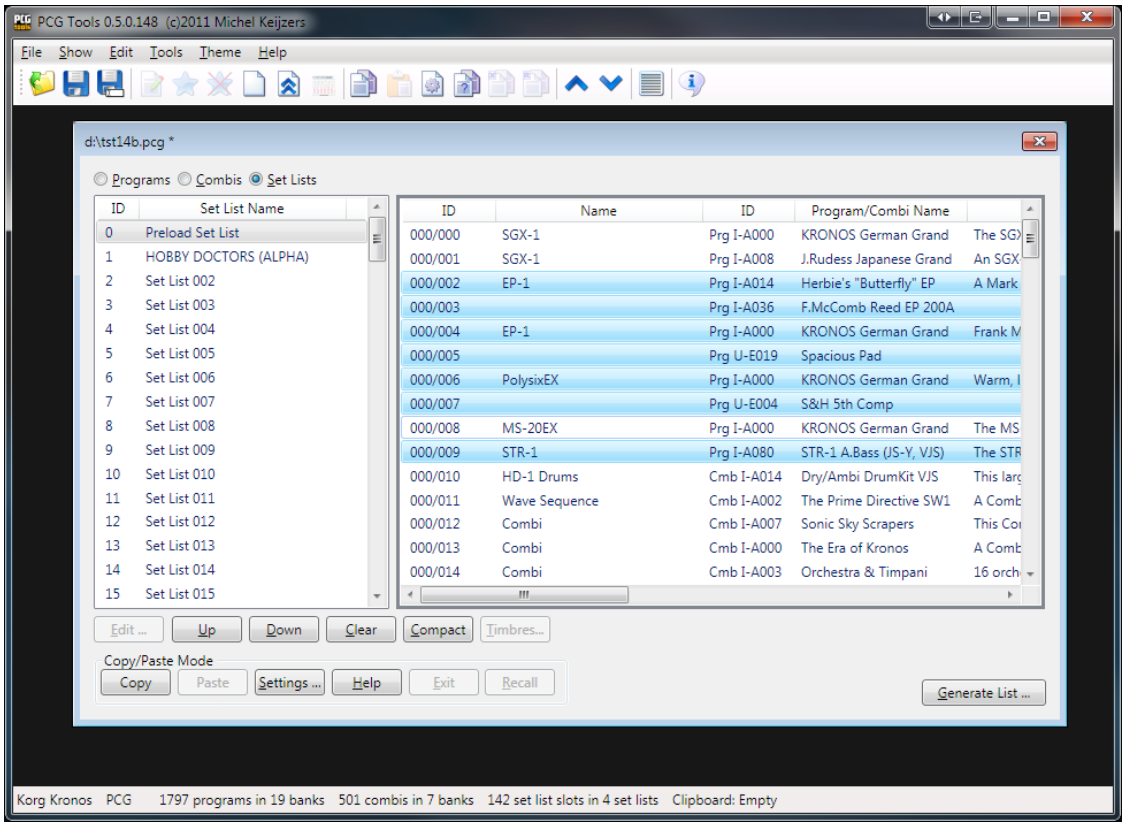


Figure 43: Before Compacting

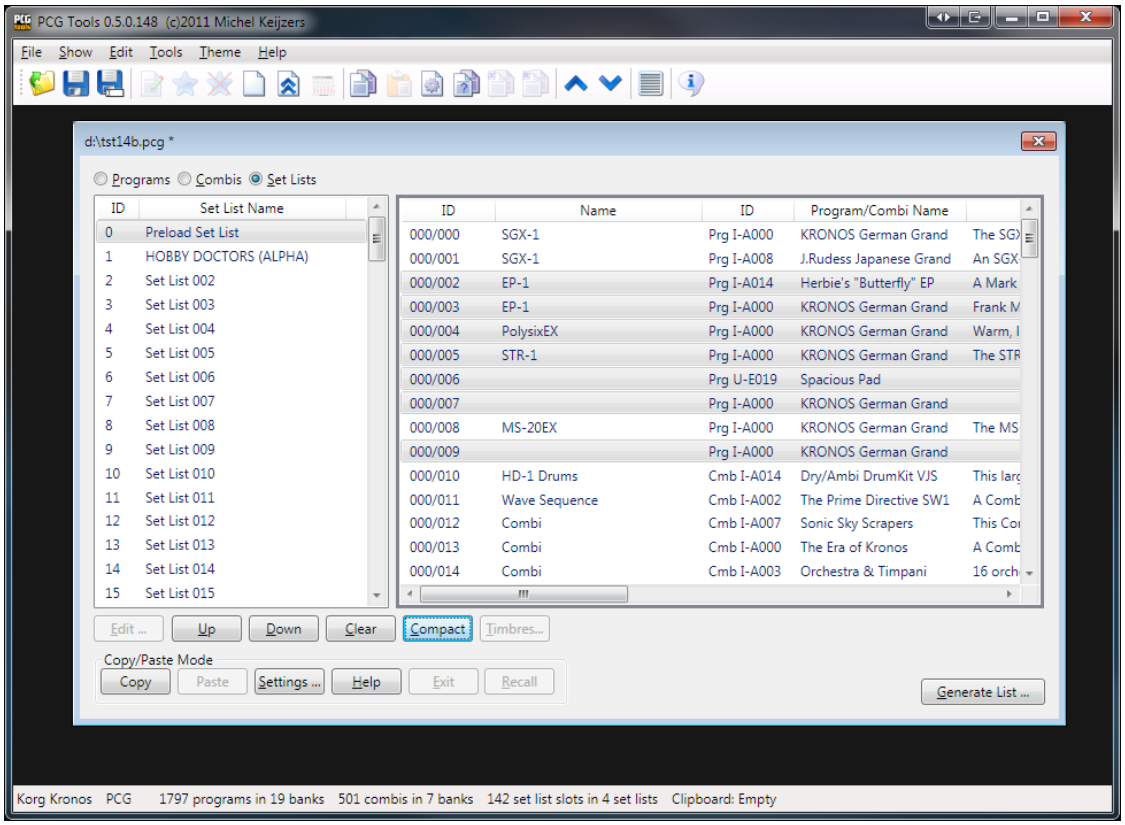


Figure 44: After Compacting

If multiple program banks are selected and the selection contains both modeled program banks (EXi, Radias, Moss) banks and sampled program banks (HD1, EDS), the banks are split into two sets and both sets are compacted separately (as if you would first select only the modeled program banks and compact them and then select the sampled program banks and compact them).

Also when selecting multiple banks, compacting them is not performed per bank. E.g., if two banks are selected and the first selected bank contains 20 empty patches, then 20 patches from the second selected bank (if not empty) are moved to the first selected bank.

[TIP]: To create empty banks, first remove unwanted patches by clearing them, then select all banks and compact all banks. The result is (depending on the amount of removed patches), that completely empty banks are available (which will be the last banks of the sampled/modeled type).

When moving programs, all combis and set list slots referring to the selected programs (and programs moved down to let the selected programs move up) are changed accordingly.

[KRONOS ONLY] When moving combis, all set list slots referring to the selected combis (and combis moved down to let the selected combis move up) are changed accordingly too.

7.3.6.6 Timbres Command

This command is used to manage the timbres inside a combi.

Activation prerequisite: select exactly one combi.

The following ways can be used to select this command:

- Select the Timbres menu item in the Show menu.
- Select the Timbres tool bar icon in the toolbar (page with green and red controls)
- Click the Timbres… button.
- Press Alt-t until the Timbres button is highlighted and press Enter.

This command shows the timbres of the selected combi. A new window will appear and is explained in more detail in Paragraph 7.4.

7.3.7 Cut/Copy/Paste Commands

7.3.7.1 Introduction

Cut / Copy / Paste commands are for moving and copying patches and are also called Copy/Paste commands in short. Cut/Copy/Paste patches is unlike cut/copy/pasting text in a text editor (e.g. NotePad) a lot more complicated. The reason for this, is that programs are used in combis and set list slots and combis are used in set list slots and by copy/pasting combis or set list slots, the underlying used patches should also be pasted.

Wave sequences and drum kits cannot be cut, copied and/or pasted.

[WARNING]: Wave sequences and drum kits will not be copied. This means that if programs, combis and/or set list slots making use of non default wave sequences or drum kits, may sound differently when copy/cut/pasted. This only can occur when copying to another PCG file. If programs, combis and/or set list slots are cut/copy/pasted within the same PCG file then the patch will not have this problem.

When combis or set list slots would be copied and pasted without their used programs or combis, they would not sound at all or at least not sound as their originals, resulting in so called broken combis or set list slots. Therefore, when combis are copy/pasted, all used programs in those combis should be pasted too. If set list slots are copy/pasted, all used programs and combis in the copied set list slots should be pasted, but also the programs used in the combis used in the copied set list slots.

Because you need to have control over the location where programs, combis and set lists can be pasted, a copy/paste action is not a two step action like in a text editor: copy, then paste. Instead, a copy action is performed, and after that one or more paste actions are needed, until all programs, combis and set list slots are pasted.

For cut/paste something similar is true. When moving programs to another location, the combinations and set list slots where that program is used in, should be changed accordingly. Something similar should occur for moved combinations in set list slots where the moved combinations are used in.

[WARNING]: Most commands cannot be undone, be especially careful with the Paste command, Exit and Recall commands. Check the Cut/Copy/Paste settings (see paragraph 7.3.7.5.1) before starting with one or more cut/copy/paste actions.

7.3.7.2 Copying between different workstation models

Unlike on the real Korg workstation, there are limitations of patches able to be copied between different workstation models. Only workstations within the same PCG Tools Compatibility box (shown in the table below) are allowed to be copied between them.

Workstation Group	PCG Tools Compatibility
Korg Kronos (X)/Oasys[1]	Korg Kronos X Korg Kronos OS 2.x
	Korg Kronos OS 1.5/1.6
	Korg Kronos OS 1.0/1.1
	Korg Oasys
Korg M family	Korg M3 2.0
	Korg M3 v1.x
	Korg M50
	Korg Krome
Korg Triton family / Karma	Korg Triton Extreme
	Korg Triton Studio Korg Triton Classic Korg Triton TR Korg Triton Rack
	Korg Triton LE
	Korg Karma

[1] Korg Oasys PCG files are only readable on Korg Kronos (X) workstations, not vice versa

Table 20: Compatible workstation models

However, if you want to copy patches between two PCG files from different Korg workstation models that are incompatible for PCG Tools, there is a solution. Perform the following steps:

- Find out which (or both) PCG file(s) is (are) not from the same workstation model or current operating system of your workstation model. With that file (or those files), perform the following steps.
- Load the PCG file in your workstation.
- Save the PCG file. This will automatically convert the PCG file in a format equal to your workstation model and to the same Operating System version as your workstation model.
- Load the PCG file in PCG Tools.

Once a PCG file is converted to your workstation model and latest Operating System version, you do not have to do this again.

7.3.7.3 Cut Command

This command is used for moving programs, combis or set list slots, by first cutting them and later patching them to the wanted position(s).

Activation prerequisite: select one or more program banks, combi banks or set lists, or select one or more programs, combis and set list slots. Also a current cut/copy/paste action should not be active (when the paste operation from a cut/copy action has been started, it should be finished or exited before being able to use the Cut command again).

The following ways can be used to select this command:

- Select the Cut menu item in the Edit menu.
- Select the Cut tool bar icon in the toolbar (the pairs of scissors icon)
- Press Ctrl + X key (default windows Cut behavior)
- Click the Cut button.

This command depends on whether banks or patches are selected, and also depends on the type of patches which are cut. All selected patches are copied to the so called clipboard, and also cleared (see Clear command). The clipboard is shown in the status bar at the bottom of the PCG Tools screen in red. It is not part of the PCG file but serves as a temporary storage for cut and copied patches. There is only one clipboard available, when a cut or copy is performed, the clipboard is filled and a new cut or copy will overwrite the current clipboard content.

[EXAMPLE]: When cutting program I-A000 (Kronos Piano), the program will be cleared (shown as an empty program). When moving this program to bank U-G, it will be shown there, see below. Note that the clipboard is being empty again.

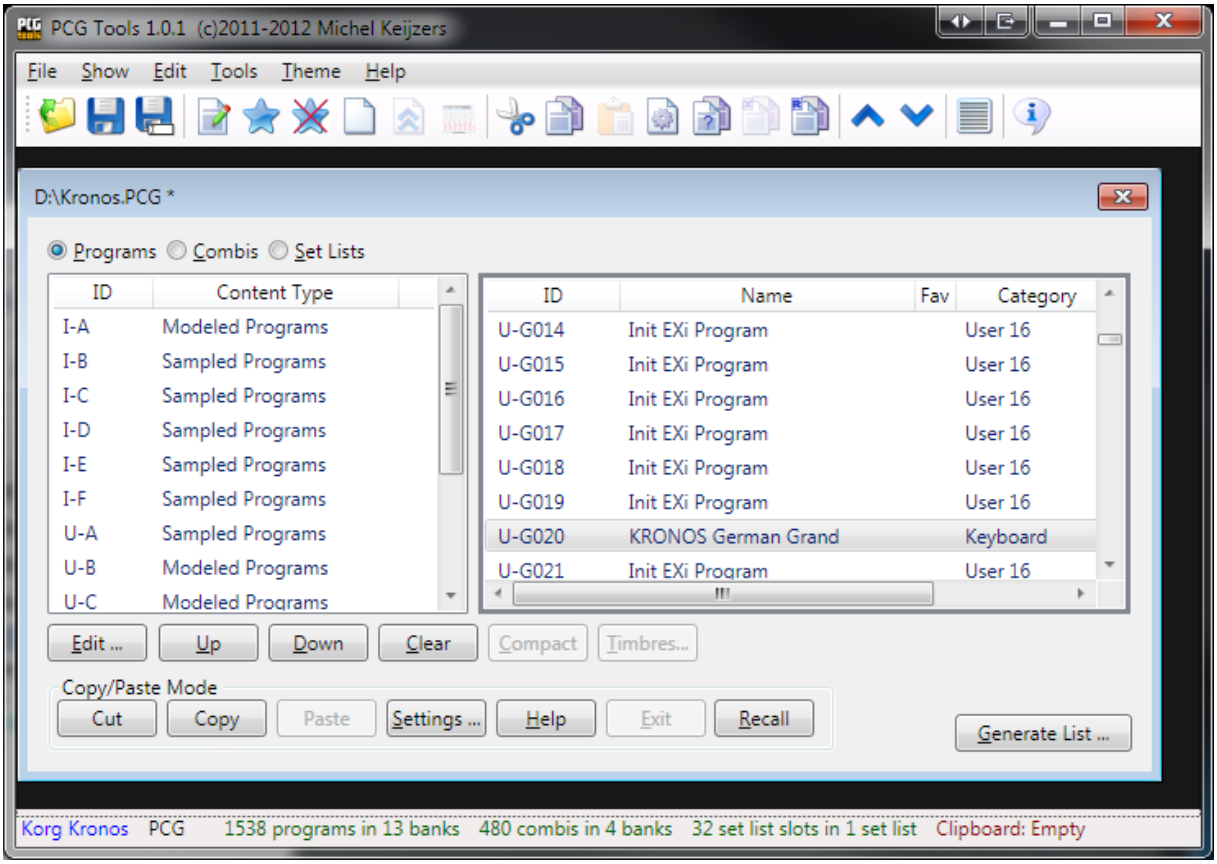


Figure 45: Program after cut and paste

Also when the timbres window of combi I-A000 is opened, one of the timbres point to U-G020 instead of I-A000, see below.

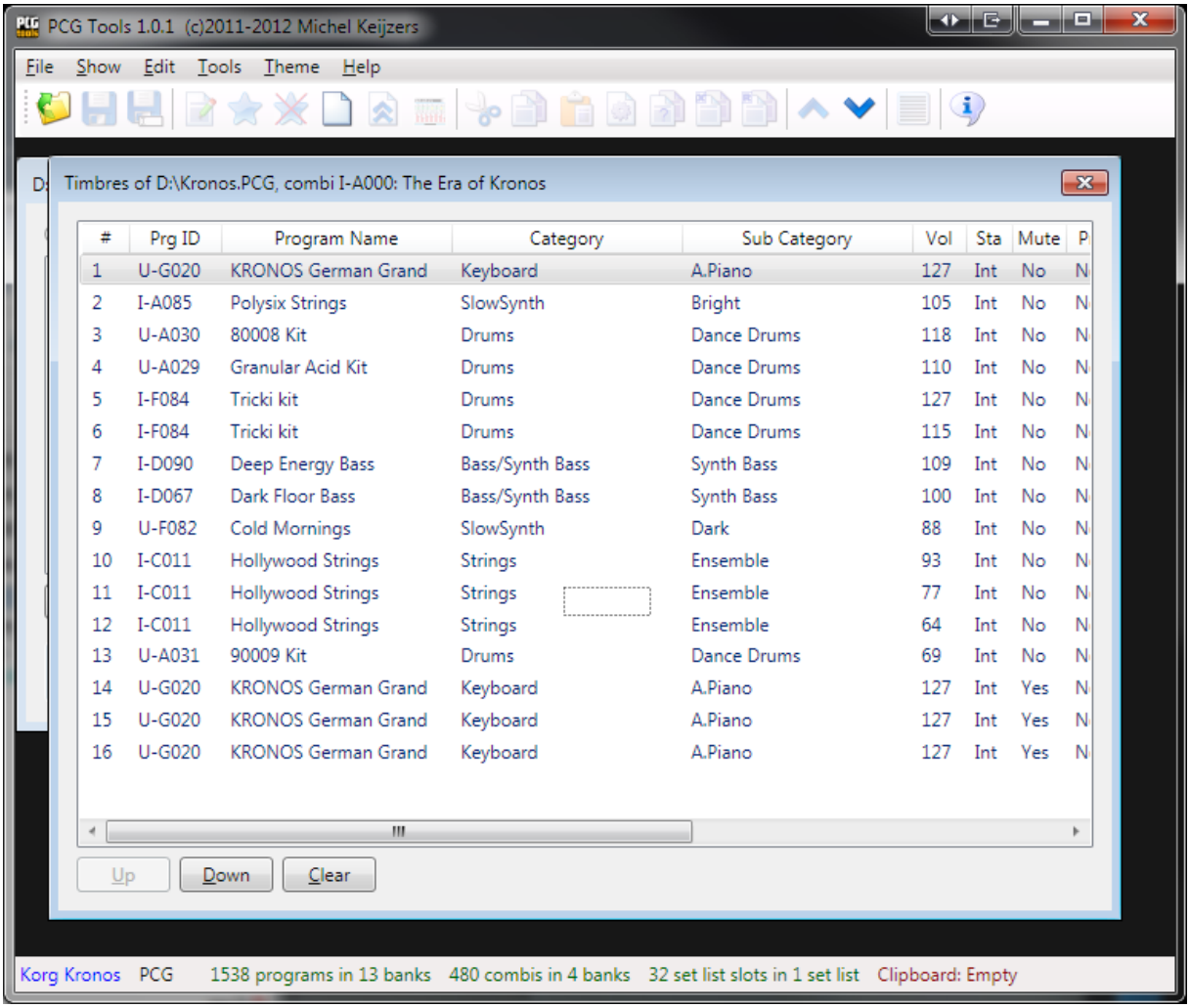


Figure 46: Clipboard content after copying a set list

A cut action cannot be used to paste the patches in another PCG file.

[WARNING]: Take care not to close a PCG file that has patches pasted into it before the clipboard is empty, otherwise the non pasted patches are lost.

7.3.7.4 Copy Command

This command is used for copying programs, combis or set list slots, to be pasted later.

Activation prerequisite: select one or more program banks, combi banks or set lists, or select one or more programs, combis and set list slots. Also a current cut/paste or copy/paste action should not be active (when the paste operation from a cut/copy action has been started, it should be finished or exited before being able to use the Copy command again).

The following ways can be used to select this command:

- Select the Copy menu item in the Edit menu.
- Select the Copy tool bar icon in the toolbar (page with a shadow page behind it)
- Press Ctrl + C key (default windows Copy behavior)
- Click the Copy button.

This command depends on whether banks or patches are selected, and also depends on the type of patches which are copied. All necessary patches are copied to the so called clipboard. The clipboard is shown in the status bar at the bottom of the PCG Tools screen in red. It is not part of the PCG file but serves as a temporary storage for copied patches. There is only one clipboard available, when a copy is performed, the clipboard is filled and a new copy will overwrite the current clipboard content.

In **Fout! Verwijzingsbron niet gevonden.** is shown which patches are copied into the clipboard.

Type Selected	Patch type selected	What is copied to the clipboard
Patches	Programs	- All selected programs.
Patches	Combis	- All selected combis. - All selected programs by the selected combis.
Patches	Set List Slots	- All selected set list slots. - All combis used by the selected set list slots. - All programs used by the copied combis above. - All programs used by the selected set list slots.
Banks	Program Banks	- All programs inside the selected program banks.
Banks	Combi Banks	- All combis inside the selected combi banks. - All programs used by the combis above.
Banks	Set Lists	- All set list slots inside the selected set lists. - All combis used by the set list slots above. - All programs used by the copied combis above. - All programs used by the set list slots above.

Table 21: Cut / Copied Patches

[EXAMPLE]: When the Preload Set List is copied (set list 0), not only the set list slot is copied but also all used programs and combis and programs used in the combis. See Figure 47 for the resulting content in the clipboard: 57 sampled programs, 128 modeled programs, 9 combis and 127 set list slots.

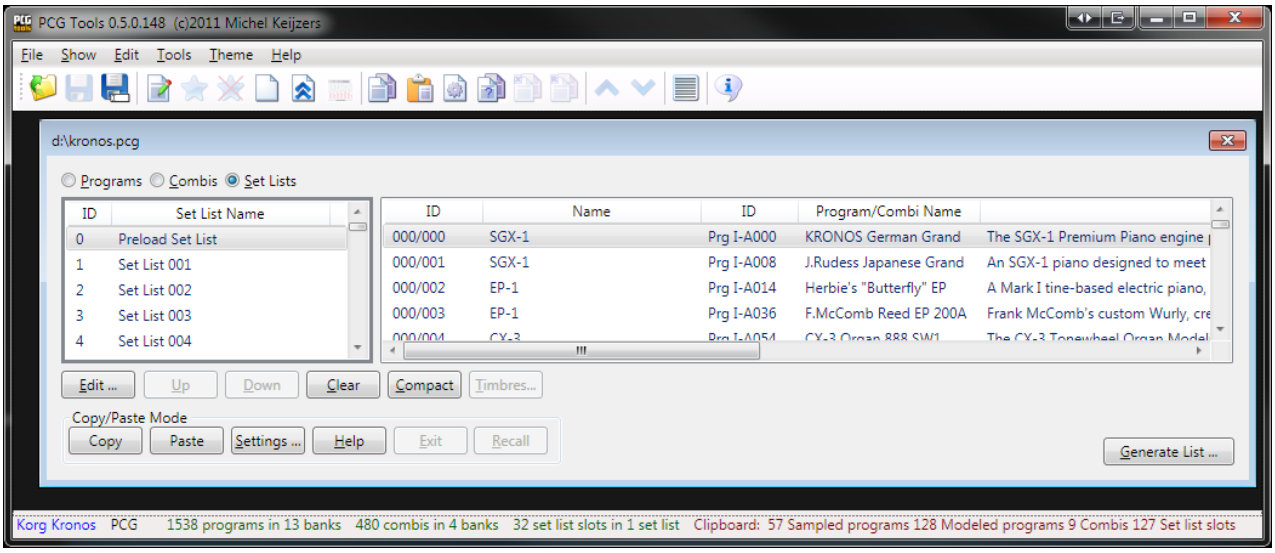


Figure 47: Clipboard content after copying a set list

After a Copy action, all necessary patches are copied to the clipboard and that PCG file can be closed without affecting the clipboard.

[WARNING]: Take care not to close a PCG file that has patches pasted into it but not the complete clipboard is empty.

7.3.7.5 Paste Command

This command is used for pasting programs, combis or set list slots which are present in the clipboard, either by cutting or copying.

Activation prerequisite: select one or more banks or patches. Also the clipboard should be nonempty.

The following ways can be used to select this command:

- Select the Paste menu item in the Edit menu.
- Select the Paste tool bar icon in the toolbar (orange clipboard with a page on it)
- Press Ctrl + V key (default windows Paste behavior)
- Click the Paste button.

This command depends on whether banks or patches are selected and whether a single patch or multiple patches are selected. Also, the cut/copy/paste settings affect this command.

Because pasting patches is not trivial, in paragraph 7.3.7.9 several examples are given how to cut/paste and copy/paste.

Note that after the first paste (i.e. when copying only a portion of the clip board), it is not possible to paste to another PCG file until the cut/paste or copy/paste operation is finished. The reason is that if you would paste combis to one PCG file and paste the used programs in those combis to another PCG file, the combis would not sound correctly (would be broken).

Cut patches can only be pasted within the PCG they are cut from.

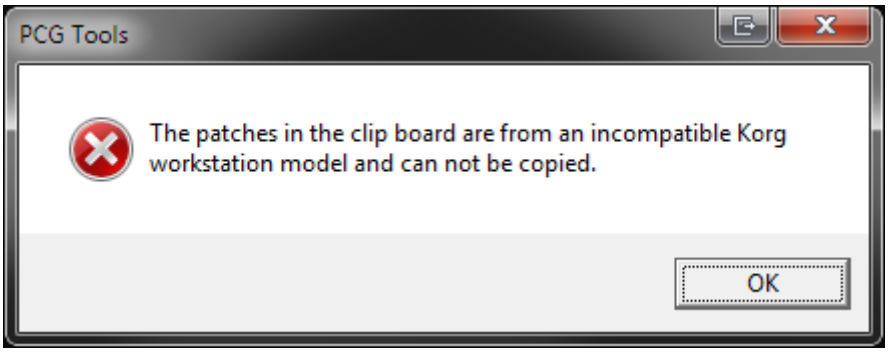


Figure 48: Incompatible Korg workstation model

Also most commands that can change the order of patches are disabled until the cut/paste or copy/paste operation is finished. You can imagine that the results of moving, clearing or compacting patches during a cut/paste or copy/paste operation would get very unclear (e.g. what if you cleared a program and the combi you have pasted contain that just cleared program?).

A cut/paste or copy/paste operation is finished as soon as the clip board is empty. If you want to force to finish a cut/paste or copy/paste operation, you can use the Cut/Copy/Paste Exit command (see Paragraph 7.3.7.7).

7.3.7.5.1 Pasting to different workstation models

It is not possible to paste patches to PCG files from different workstation models. The only exception is the Triton family which has compatible PCG files.

- There are a lot of reasons why this is not possible: The synthesis engine is different, so the parameters of one workstation model is different than the other.
- Even if the parameter is equal, the curve/linearity might be different.
- The sample sets are different.

7.3.7.5.2 Pasting to different OS versions.

In some cases patches cannot be pasted to PCG files from the same workstation model.

For the Korg Kronos (and Kronos X) patches cannot be pasted between the following versions:

- Korg Kronos version 1.0/1.1

- Korg Kronos version 1.5/1.6

- Korg Kronos (X) version 2.0

Meaning: a patch from Korg Kronos version 1.1 cannot be pasted into a PCG file from a Korg Kronos version 1.5 (or vice versa).

And Korg M3 patches cannot be pasted between the unexpanded and expanded versions:

- Korg M3 version 1.x

- Korg M3 version 2.0 (expanded)

When trying, you will see the following error:

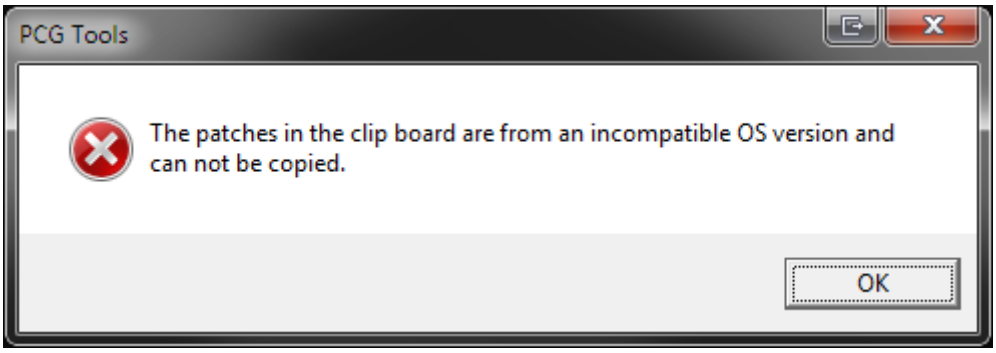


Figure 49: Incompatible OS version

However, you can easily work around this, as long as the workstation model is equal:

- Load the older version in the M3 or Kronos (make a backup of your current PCG file first)
- Save the file again, then the M3 or Kronos will automatically save it in the latest (current) OS version.
- Revert to the just saved fie.
- Now copy/paste is possible between the two files.

7.3.7.6 Cut/Copy/Paste Settings Command

7.3.7.6.1 Showing the settings

This commands manages the cut/paste and copy/paste settings.

The following ways can be used to select this command:

- Select the Settings menu item in the Options menu.
- Select the Settings tool bar icon in the toolbar (page with a saw disk)
- Click the Cut/Copy/Paste Settings button.
- Press Alt-s until the Cut/Copy/Paste Settings button is highlighted and press Enter.

Cut/Copy/Paste settings are global for all PCG files, so it does not matter from which PCG file it is shown or changed.

7.3.7.6.2 Settings

The figure below shows all copy/paste settings including its default settings.

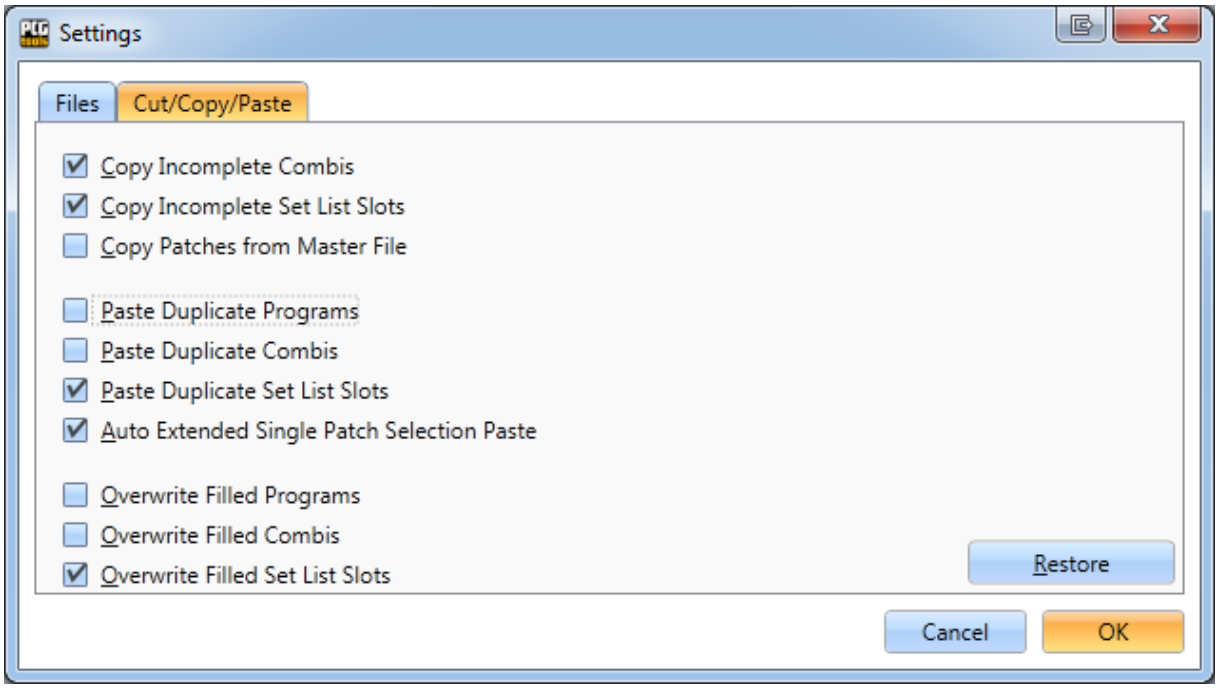


Figure 50: Cut/Copy/Paste Settings

Figure 50 shows all default cut/copy/paste settings and Table 22 shows the description of each setting.

Item	Default	Description
Copy Incomplete Combis	Off	When selected, only combis which have ALL programs present in the PCG file will be copied (together with their used programs). This cannot result in broken combis. If not selected, all combis (together with their used programs) will be selected. This means combis will be copied that are incomplete and can result in broken combis. This option is ignored when using cut/paste operations.
Copy Incomplete Set List Slots	Off	When selected, only set list slots which have ALL combis and ALL programs present in the PCG file will be copied (together with their used combis and programs and programs used in the used combis). This cannot result in broken set list slots. If not selected, all set list slots (together with their used programs, combis and used programs in used combis) will be selected. This can result in broken set list slots. This option is ignored when using cut/paste operations.
Paste Duplicate Programs	Off	If selected, programs can be pasted even if there are already duplicates in the PCG file, otherwise the duplicate programs will be automatically removed from the clip board after the first paste action to a PCG file. This option is ignored when using cut/paste operations.
Paste Duplicate Combis	Off	If selected, combis can be pasted even if there are already duplicates in the PCG file, otherwise the duplicate combis will be automatically removed from the clip board after the first paste action to a PCG file. This option is ignored when using cut/paste operations.
Paste Duplicate Set List Slots	On	If selected, set list slots can be pasted even if there are already duplicates in the PCG file, otherwise the duplicate set list slots will be automatically removed from the clip board after the first paste action to a PCG file. This option is ignored when using cut/paste operations.
Auto Extended Single Patch Selection Paste	On	If selected, a single patch can be selected for pasting multiple patches from the clipboard. All legal patches are used to fill up the remainder of the bank starting from the selected patch (taking into account the other settings, such as not overwriting filled patches).
Overwrite Filled Programs	Off	If selected, already filled programs can be overwritten by pasted programs.
Overwrite Filled Combis	Off	If selected, already filled combis can be overwritten by pasted combis.

Overwrite Filled Set List Slots	Off	If selected, already filled set list slots can be overwritten by pasted set list slots.

Table 22: Copy/Paste Settings

Note that when incomplete combis and set list slots is selected, and these are pasted to another PCG file, it may result in broken combis and set list slots (depending on what is currently loaded in the workstation before loading the PCG file).

When the setting Paste Duplicate Programs, Combis or Set List Slots is deselected, and patches are pasted to the same or another PCG file, if those patches already exist in the PCG file to be pasted to, these programs, combis and set list slots will be automatically removed from the clipboard without being pasted.

When pasting in the same PCG file and combis have been copied, the used programs will automatically be removed because it simplifies copy/pasting patches.

Also, when set list slots are pasted in the same PCG, the programs and combis (including used programs) are automatically removed because it simplifies copying set list slots.

The reason duplicate Set list slots are allowed to be pasted by default, is that set list slots are used multiple times with the same references and parameters (volume, description etc).

Duplicate patches are considered patches that are 100% equal, but the name is ignored for the equality check.

[WARNING]: When one or more of the settings for overwriting patches is selected, it is possible to paste multiple times over the same patch, resulting in overwriting earlier pasted patches and in broken combis and/or set list slots.

Take a look at the settings BEFORE starting a copy/paste action, because after the first paste, some options are not allowed to be changed once a copy/paste action is active (i.e. one or more patches have been pasted in a PCG file and the clipboard is not empty thus the current copy/paste action is unfinished). These are:

- Paste Duplicate Programs
- Paste Duplicate Combis
- Paste Duplicate Set List Slots

The (Cut)/Copy/Paste settings are retained and do not have to be set again after each restart of the application and are saved immediately after pressing the OK button (which also closes the settings dialog).

7.3.7.6.3 Restore Button

The restore button can be used to restore the settings of the (Cut)/Copy/Paste settings back to the default, shown in Table 22.

The following ways can be used to select this command:

- Click the Restore button.
- Press Alt-r until the Restore button is highlighted and press Enter.

7.3.7.7 Cut/Copy/Paste Exit Command

This command ends the active copy/paste operation and clears the clip board.

The following ways can be used to select this command:

- Select the Cut/Copy/Paste Exit menu item in the Edit menu.
- Select the Cut/Copy/Paste Exit tool bar icon in the toolbar (page with a cross in the top left corner).
- Press Alt-e until the Exit button is highlighted and press Enter.
- Click the Exit button.

This command should be used when you accidentally pasted something (in the wrong file or wrong location) and wants to end the active copy/paste operation. Note that an undo is not possible, so the (unintended) pasted patches can/should be removed manually if needed.

Because this command should be used with care the dialog shown in Figure 51 warns you about the consequences.

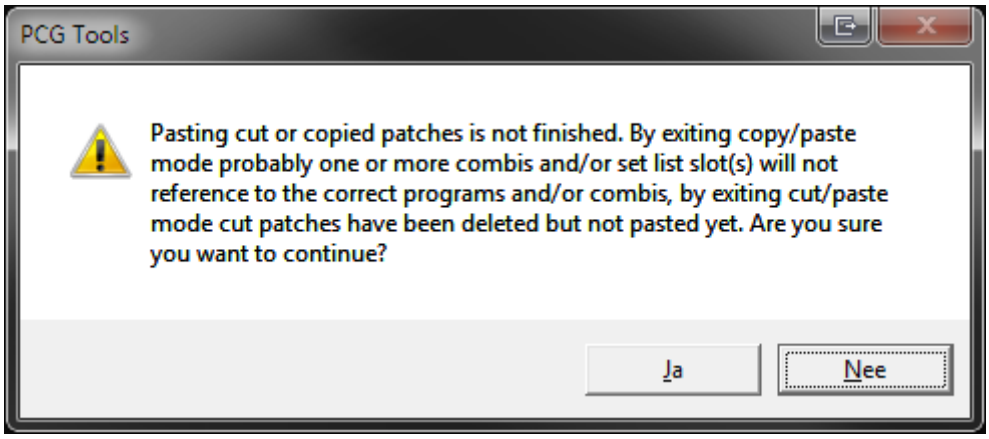


Figure 51: Copy/Paste Exit Warning Dialog

[WARNING]: This command should be performed with care, because when exiting copy/paste mode, not all patches are already pasted and combis and set list slots may contain references to unpasted patches, resulting in broken combis and set list slots. When exiting cut/paste mode, patches have been cleared but not yet pasted again.

7.3.7.8 Cut/Copy/Paste Recall Command

This command can be used to recall the original copied patches again to repaste them again.

The following ways can be used to select this command:

- Select the Recall menu item in the Edit menu.
- Select the Cut/Copy/Paste Recall tool bar icon in the toolbar (page with a blue R in the top left corner).
- Press Alt-r until the Recall button is highlighted and press Enter.
- Click the Recall button.

This command can be used after a cut/paste or copy/paste action to perform the paste operation again without selecting the originally copied patches again. It automatically selects the used programs for copied combis and used programs/combis and programs in used combis for copied set list slots.

[TIP]: Suppose you have a program you like to copy 20 times. Follow the instructions to perform this:

- Copy the program.
- Paste it to the requested location (inside the same PCG file or another). Then the clipboard will be empty again.
- Press the Recall button. The copied patch will be in the clip board again for another paste action.
- Paste it again.
- (Optionally: then select both programs and copy them so you have two (equal) programs copied in the clip board)
- Press Recall again and continue pasting and you have 20 equal programs (using a new copy/paste to select even more programs at the same time).

7.3.7.9 Cut/Copy/Paste Examples

7.3.7.9.1 Introduction

Since cut/paste and copy/paste operations are not trivial as can be read in the previous paragraphs, the following paragraphs are dedicated for examples and usages of the Copy/Paste possibilities within PCG Tools.

The following examples are handled:

- Copying programs inside a PCG file.
- Copying programs from one PCG file to another PCG file.
- Copying combis inside a PCG file.
- Creating a PCG file with default set list slots **[KRONOS ONLY]**.
- Using cut and paste (inside a PCG file).
- Having fun with Copy and Paste.

Note that depending on the cut/copy/paste settings (see Paragraph 7.3.7.5.1), a lot more options and use cases are available, but I leave these to try yourself. Some settings will be handled though.

7.3.7.9.2 Example: Copying programs inside a PCG file

This example shows how to copy multiple programs inside the same PCG file.

Perform the following steps:

1. Select the Copy/Paste settings.
2. Open a PCG file.
3. Check Paste Duplicate Programs and press OK.
4. Select a few programs from a program bank.
5. Copy these to the clipboard. The clipboard will show the copied programs.
6. Go to another part of the program bank or another bank (of the correct type if applicable) and find some empty spaces, select the first of them.
7. Select the Paste command. Combis and set list slots will **NOT** reference to the newly pasted programs, so you only copy the programs without changing combis/set list slots.
8. The programs will be pasted and the clipboard will be empty.

The result of copy/pasting programs U-G014 until U-G16 to the programs starting at U-G019 can be seen in Figure 52.

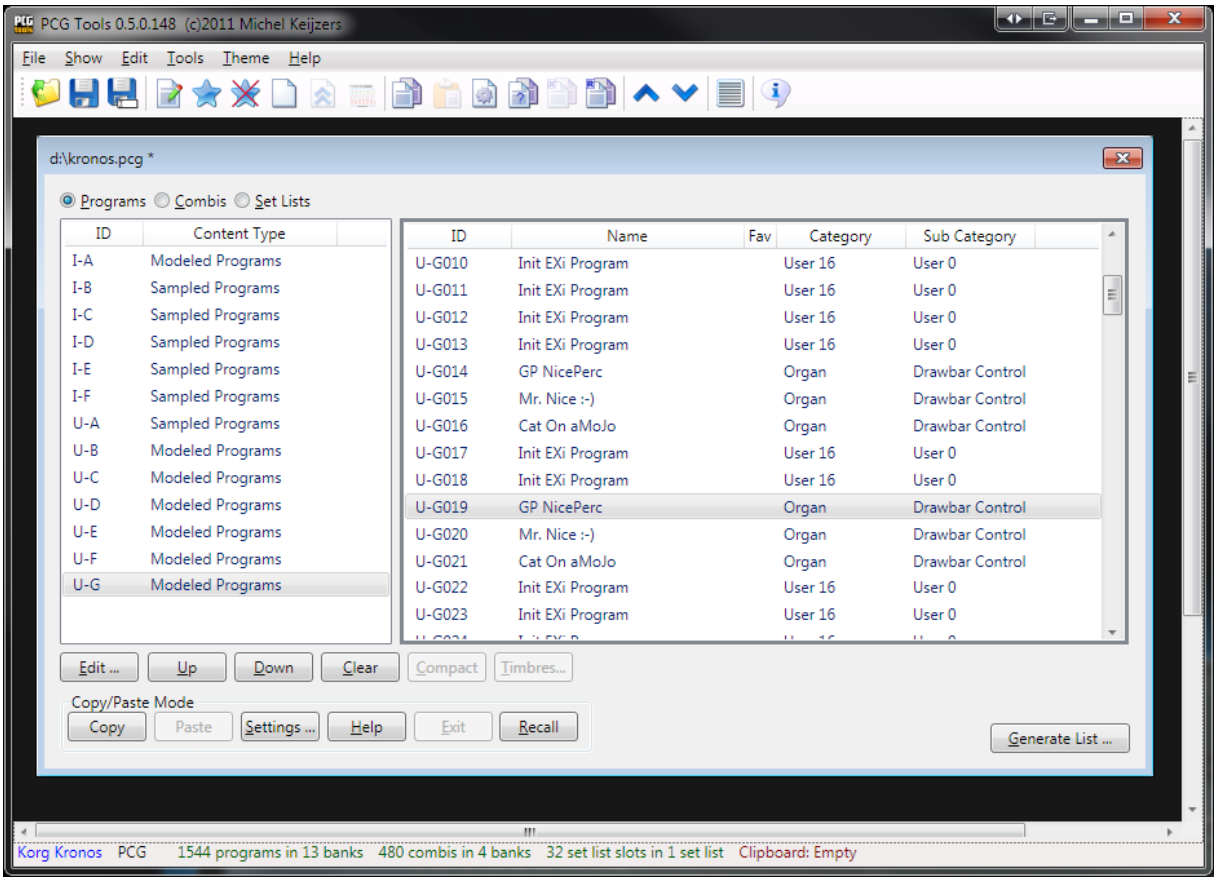


Figure 52: Copy Programs inside a PCG file

7.3.7.9.3 Example: Copying programs from one PCG file to another PCG file

This example shows how to copy multiple programs from one PCG file to another PCG file.

Perform the following steps:

1. Open two PCG files (e.g. a source PCG file called Kronos.pcg and a destination PCG file called KronosNew.pcg) from the same workstation model.
2. Select a few programs from a program bank from the source PCG file.
3. Copy these to the clipboard. The clipboard will show the copied programs.
4. Go to the destination PCG file and find some empty spaces, select the first of them.
5. Select the Paste command. Combis and set list slots will NOT reference to the newly pasted programs.
6. If you get a big warning dialog, then probably the programs you tried to paste are already existing in the destination PCG file and by default pasting duplicating programs is disabled. Change the copy/paste and continue with step 2.
   If successful, the programs will be pasted to the destination PCG file and the clipboard will be empty.

The result can be seen in Figure 53.

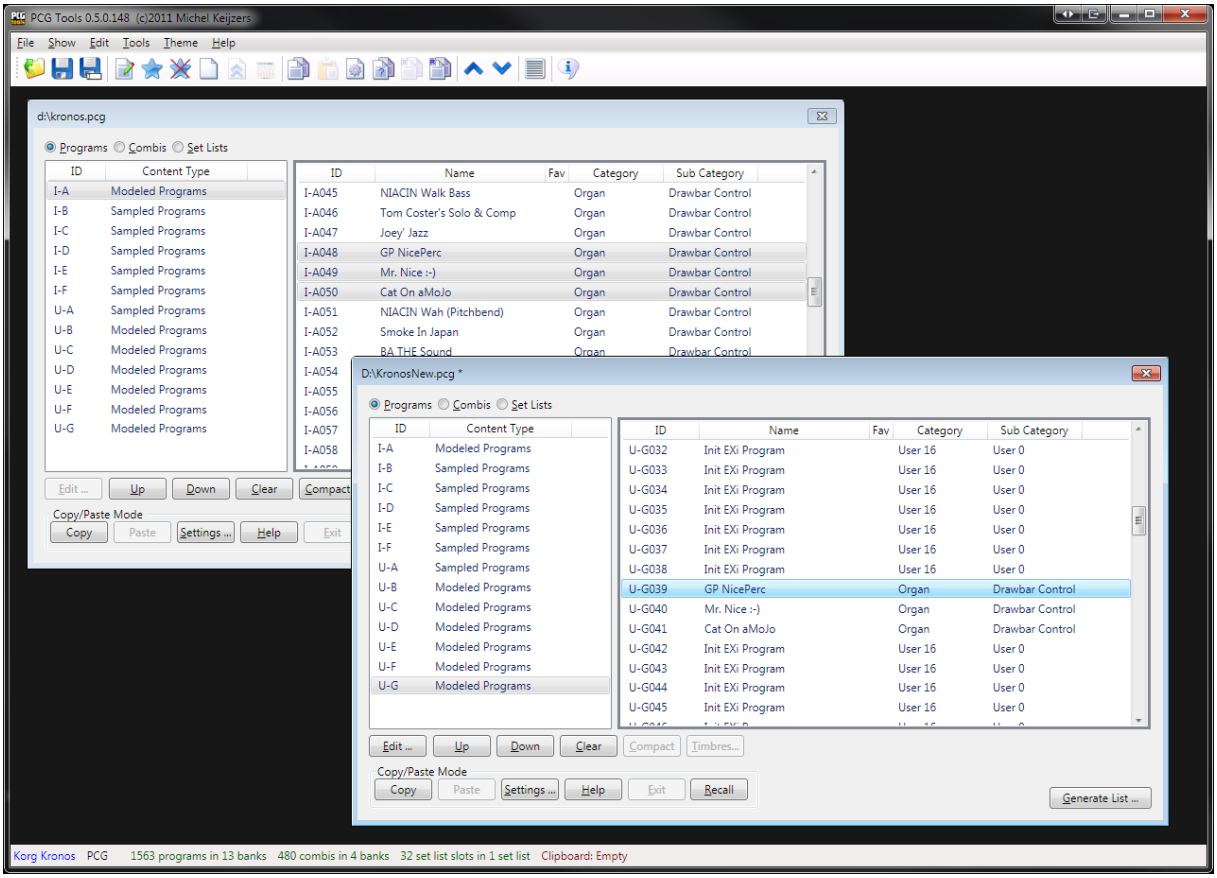


Figure 53: Copy Programs from one PCG file to another PCG file

7.3.7.9.4 Example: Copying combis inside a PCG file

This example shows how to copy combis inside a PCG file.

Perform the following steps:

1. Select the Copy/Paste settings.
2. Open a PCG file.
3. Check Paste Duplicate Combis and press OK.
4. Select approximately five combis from a combi bank.
5. Copy these to the clipboard. The clipboard will show the copied banks and also the programs (possibly split in sampled programs and modeled programs).

From here you can first copy the programs, and then the combis or vice versa. However, when the default Copy/Paste settings (except for the changed Paste Duplicate Combi setting changed above) are used, programs will not be pasted, but let us try to do anyway:

6. Go to a program bank and find some empty spaces, select the first of them.
7. Select the Paste command. You probably get a warning box that no patches have been copied. This is normal, because the copy/paste setting for pasting duplicated programs is switched off. Since all used programs are already present in the PCG file they are not pasted. Also note that all programs (not only from the type of programs which can be stored in the program bank) are removed from the clipboard.

Now we have seen the programs cannot be pasted. (You can paste them if you want to, but to do that, the copy/paste setting for pasting duplicate programs should be checked).

Now we paste the combis:

8. Go to a combi bank and find some empty spaces, select the first of them.
9. Select the Paste command. The pasted combis show up and the clipboard is empty.

As usual, when pasting programs and combis (in which order does not matter), all references of combis to programs and set list slots to programs and combis will be fixed so that combis and set list refer to the correct programs and combis.

7.3.7.9.5 Example: Creating a PCG with default set list slots [KRONOS ONLY]

This example shows how to create a PCG file that only contains the programs, combis and used programs from combis used in the default set list slot.

Perform the following steps:

1. Open a PCG file (in this example assumed to have name Kronos.pcg).
2. Save this PCG file as SetListOnly.pcg.
3. Clear all program banks by selecting Programs, select all banks on the left side and press the Clear button.
4. Do the same with all combi banks.
5. And also with all set lists.
6. Open the original PCG file again (Kronos.pcg)
7. Select from SetListSlotOnly.pcg the first set list (on the left side).

8. Press Copy. You see that 57 sampled programs, 128 modeled programs, 9 combis and 127 set list slots are copied.
9. Select a combi bank and press Paste. Note see that all combis are pasted in this bank.
10. Select a modeled program bank and press Paste. Note that all modeled programs are pasted in this bank. If there is not enough space, some modeled programs would stay in the clip board.
11. Select a sampled program bank and press Paste. Note that all sampled programs are pasted in this bank.
12. Now paste all set list slots.
13. Now everything is pasted, the copy/paste mode is inactive again (note that the Exit button is disabled).
14. Save the PCG file.

[TIP]: You can use these steps to create a small PCG file which only contains programs/combis of the set lists you use. When you want to remove the unused banks, load it in the Kronos and save the PCG file again with only the (partially) filled banks.

7.3.7.9.6 Using cut and paste (inside a PCG file)

This example shows how to use cut and paste. Both some programs, combis and set list slots will be pasted.

Perform the following steps:

1. Open a PCG file.
2. Select three programs and press Cut. Notice that the Clipboard contains the cut programs and the selected programs are cleared.
3. Now find an empty bank of the same type (sampled or modeled) and select one program. Press Paste and notice all programs are pasted, clearing the Clipboard.
4. Now try steps 2 and 3 again but cut as above 3 programs, but select two programs to paste to. Notice that two programs are pasted and one stays in the Clipboard. This last programs should also be pasted (can be in a different location).
5. Try steps 2 and 3 again but select a complete program bank. You can paste to a program bank but also can select ranges (consecutive or not) of programs.
6. Try steps 2 and 3 again with a few combis. Notice that unlike copy/paste operations, the used programs are not cut or copied to the Clipboard.
7. Try steps 2 and 3 again with some set list slots. Notice that unlike copy/paste operations, the used programs and combis (and programs used in those combis) are not cut or copied to the Clipboard.

7.3.7.9.7 Example: Having fun with Copy and Paste

This example shows an advanced example what you can do with copy and paste.

Perform the following steps:

1. Open two PCG files (in this example assumed to be named From.pcg and To.pcg).
2. Open the Copy/Paste settings and activate all Paste Duplicate check boxes and press OK. This makes is possible to copy all patches even though they may already exist in To.pcg.
3. In From.pcg, select three combi banks which are completely or reasonable filled.

4. Copy them to the clipboard, resulting in (probably) a number of combis, and a number of samples and/or modeled programs in the clipboard.
5. In my case I the clipboard consists of 525 Sampled programs, 277 Modeled programs and 512 (4 banks) Combis. The 525 + 277 programs are the programs used by the combis.
6. Go to To.pcg and select an empty combi bank. Press Paste and note that 128 combis are removed from the clipboard. The empty combi bank is filled with 128 programs of the correct type that can be pasted (either sampled or modeled programs).
7. Go to another combi bank and now select a range of (empty) combis with gaps, e.g. I-G000 to I-G010 and I-G012 to I-G014 (use the shift and control keys to select/deselect patches).
8. Press Paste and watch the selected combis being filled with patches from the clipboard. No programs are pasted yet.
9. Let us now start to paste some programs.
10. Select 2 empty or partially empty program banks (in my case one modeled and sampled program banks). Press Paste and see that filled programs are not being overwritten (this is a Copy/Paste setting) and that all empty programs in the program banks are filled with the correct type of programs (i.e. sampled programs in Sampled Program banks and modeled programs in Modeled Program banks). In my case I have 397 Sampled programs, 165 Modeled programs and 371 Combis left to be pasted.
11. I leave the rest of the pasting up to you. If you are tired or pasting everything, you can try Exit, but remember that only pasted patches are being connected (meaning combis that refer to programs that have not been pasted yet, will be broken).

7.4 Master Files

7.4.1 Introduction

The reason for introducing Master Files is that PCG files do not have to contain all programs, combis, set list slots and a global section. In theory, it could even be empty.

Because inside a PCG files there are a lot of references (e.g. combis using programs, and set list slots using combis and programs, and patches having a category and sub category) this can result in problems.

Normally you will have a default file (mostly factory default or preload PCG file) and save a PCG that contains either everything or only the part you changed (e.g. some program banks).

Because maybe not everything uses the factory default PCG file by default, it can be selected. This file is called the Master File.

There can be a Master File set for each kind of workstation model and each version if applicable. E.g.

7.4.2 Usage

It is used in the following circumstances:

- When a program or combi that is referenced (by a combi or set list slot) is not present in the file itself, automatically the program or combi from the Master File is used.
- If a PCG file contains no global section (containing categories and sub categories), automatically the categories and sub categories of the Master File are used.

7.4.3 Conditions of a Master File

The following conditions must be met for a PCG file to be selected as Master File:

- All program banks have to be present
- All combi banks have to be present
- The Global section has to be present.

The reason is that if one of these items are not present, then there still are programs, combis, categories and sub categories possible that cannot be traced.

[WARNING]: For some workstation models a program bank exist for a hardware extension (like a MOSS board for the Korg Triton Extreme). If the PCG file does not contain the F bank (containing MOSS programs), it cannot be used as a Master File.

7.4.4 Master Files Menu

The Tools menu has two sub menu items, one for showing the Master Files and one for setting the current PCG file as Master File. See Figure 54 for a screen shot.

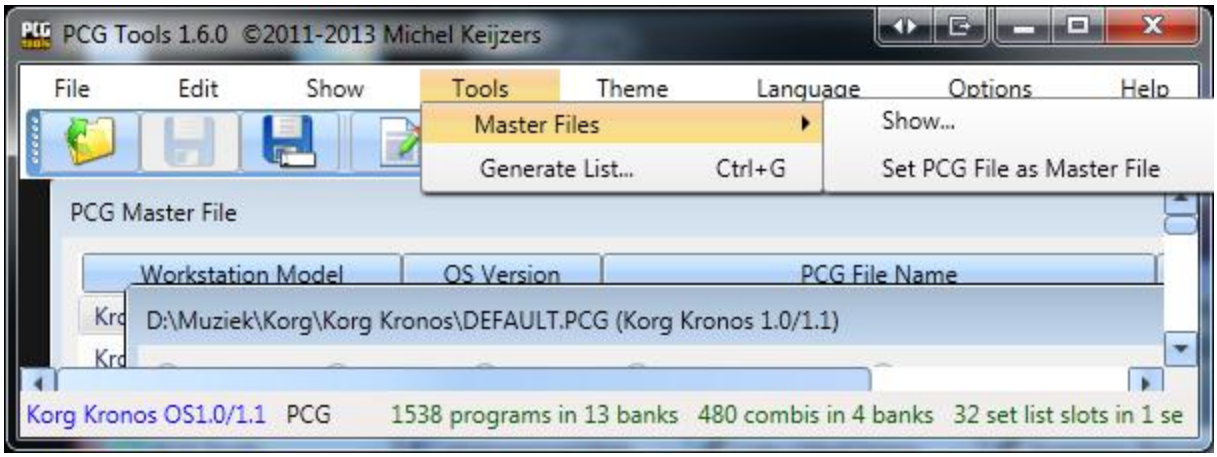


Figure 54: Master Files menu

7.4.5 Show Master Files Command

The command can be activated by:

- Select the Show… menu item in the Master Files sub menu of the Tools menu.

It shows per workstation (and per OS version if applicable) the current file (path) of the Master PCG file. Also it shows the File state which can be:

- Empty (unassigned): there is no PCG file assigned as Master File for this workstation (and OS version).
- Not Present: there is a PCG file assigned as Master File but it cannot be read (probably because it is not existing at that location).
- Unloaded: there is a PCG file assigned as Master File but it is not currently open.
- Loaded: there is a PCG file assigned as Master File which is currently open.

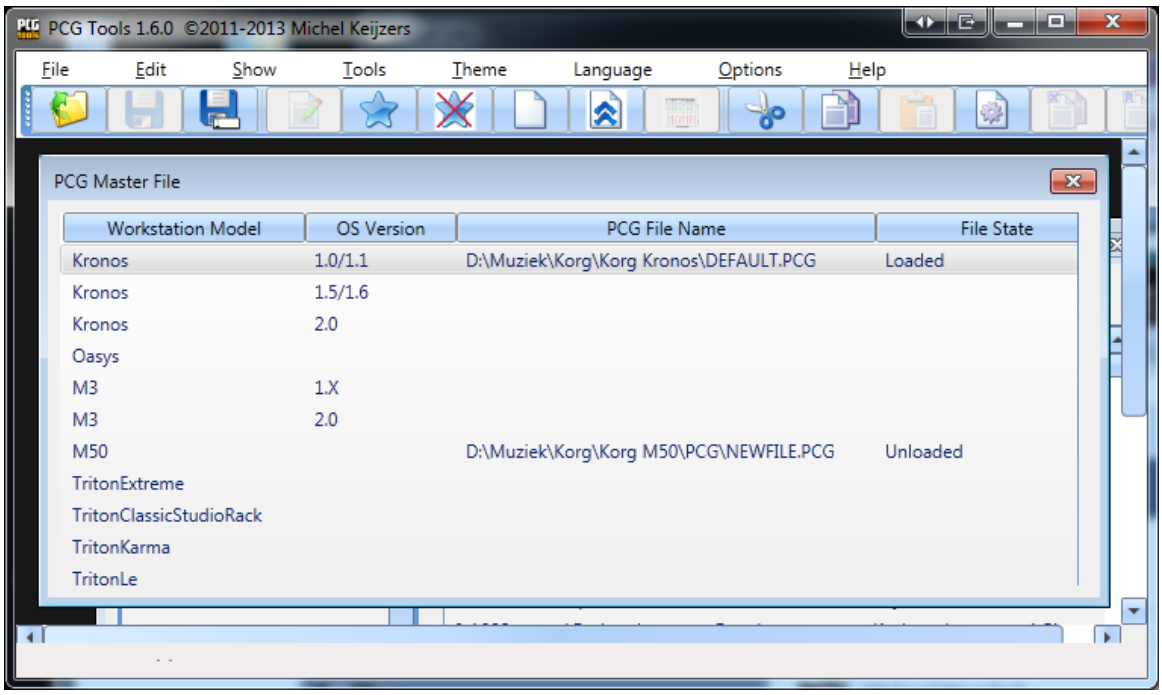


Figure 55: Show Master Files

7.4.6 Set PCG File as Master File

The command can be activated by:

- Select the Set PCG File as Master File menu item in the Master Files sub menu of the Tools menu.

It will only be enabled when a PCG file is currently selected and the conditions of a Master File are met for the selected PCG file.

7.4.7 Auto Load Master Files

The command can be activated by:

- Select the Files tab of the Settings menu item in the Options menu.

If a PCG file is loaded, depending on the setting the Master file is loaded or not (see Figure 56 for a screen shot):

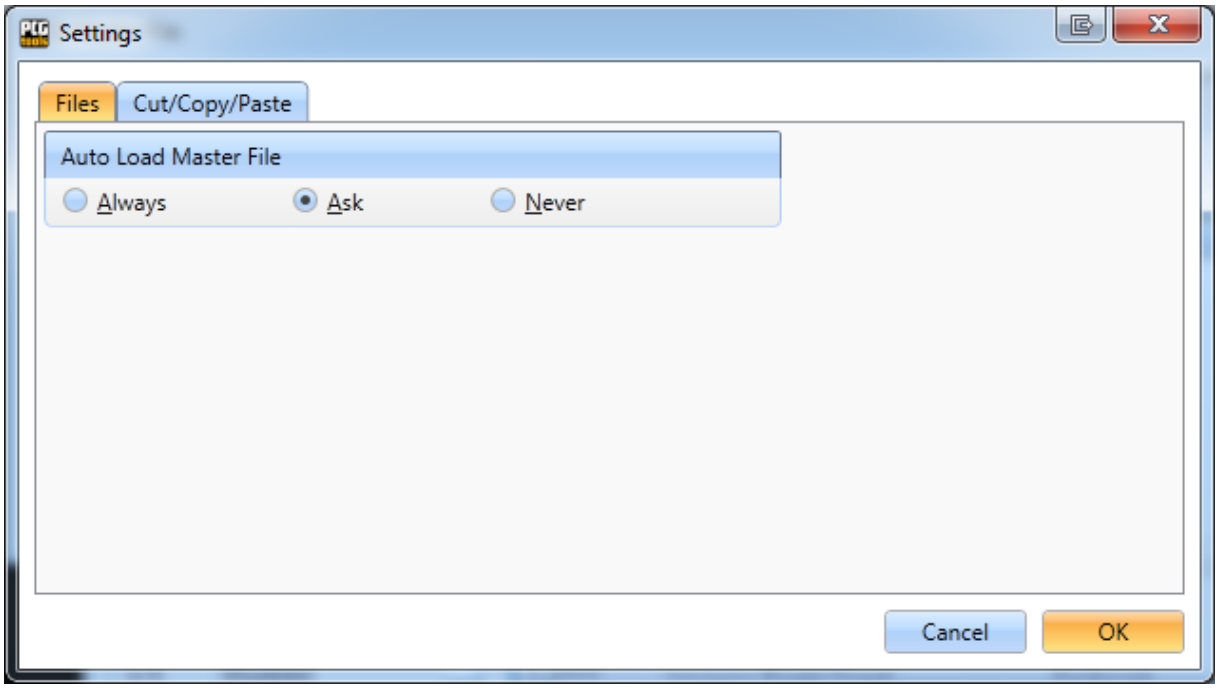


Figure 56: Auto Load Master Files

The options are:

- Always: When a PCG file is loaded, automatically load the Master File of the same workstation model (and OS version if applicable), if not already loaded.
- Ask: When a PCG file is loaded, ask to load the Master File of the same workstation model (and OS version if applicable), if not already loaded. See Figure 57 for a screenshot. If Yes (Ja in Dutch) is selected, the Master File will be opened, otherwise it will not be opened.
- Never: Never load the Master File of the selected PCG file.

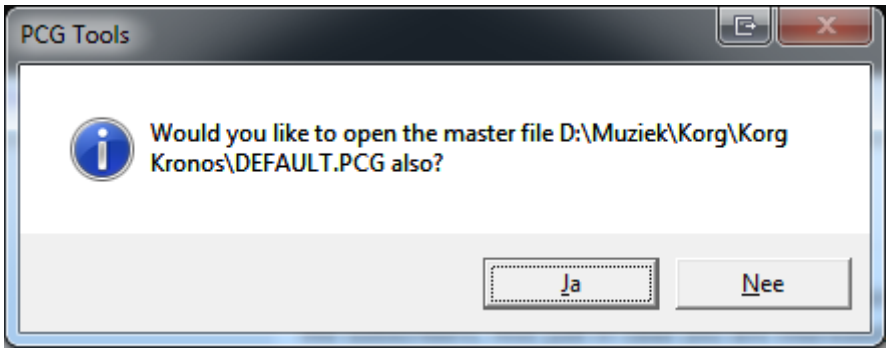


Figure 57: Ask to load Master File

7.5 Combi Window

7.5.1 Content

The Combi(nation) Window shows information about the timbres inside the selected combi and the most important parameters.

Activation prerequisite: select exactly one combi.

The command can be activated by:

- Select the Timbres menu item in the Show menu.
- Click the Timbres… button.
- Press Alt-t until the Timbres… button is highlighted and press Enter.

The Combi Window shows details about the selected combi as can be seen in Figure 58.

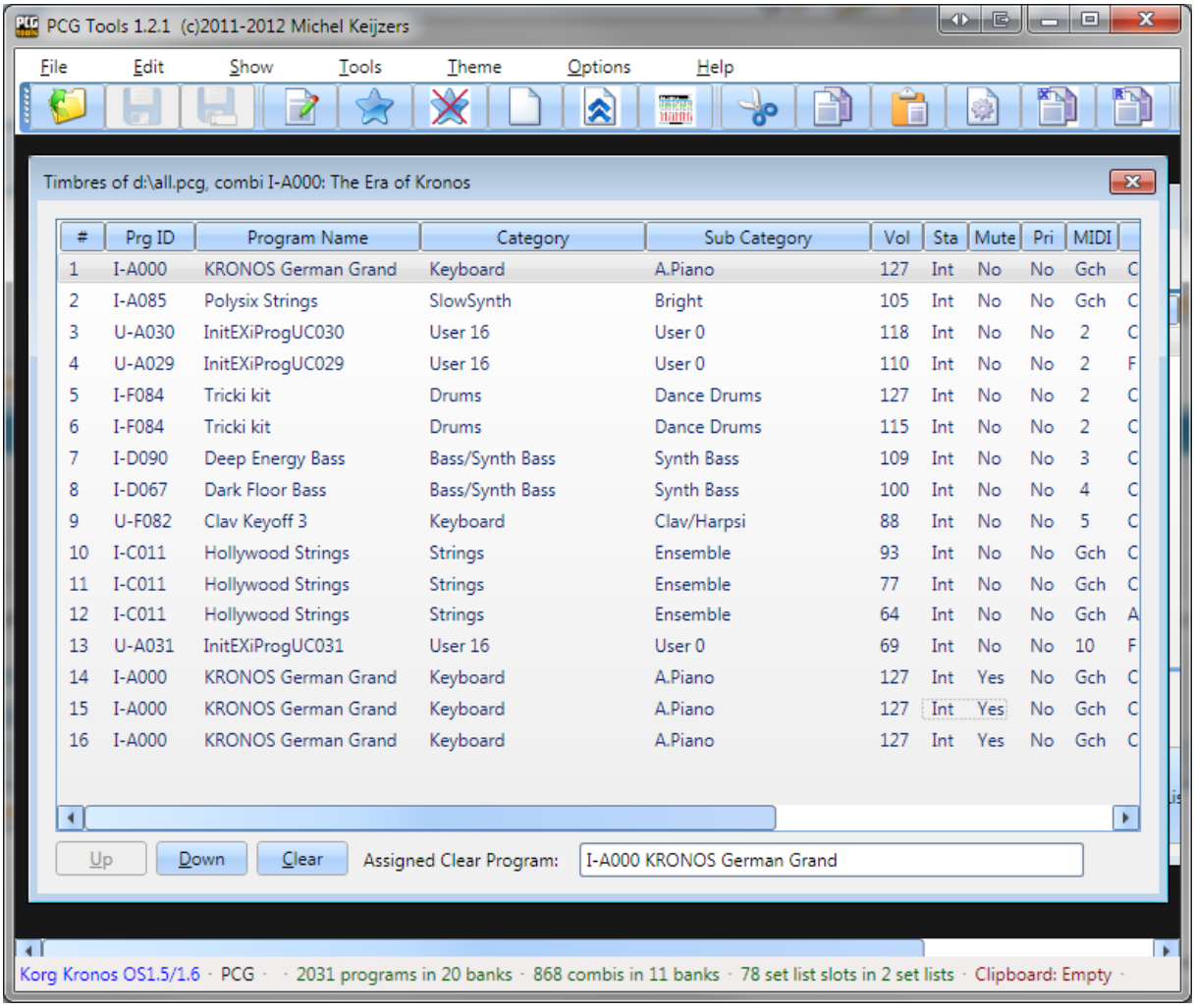


Figure 58: Combi Window

The combi window shows the following information for each timbre (8 or 16 depending on the workstation model):

- # : The number of the timbre, ranging from 1 to 16.
- Prg ID : The program ID of the program where the timbre is referencing to[1].
- Program Name : Name of that program[2].
- Category : Category of that program2.
- Sub Category : Sub category of that program[3],2.
- Vol : Volume of that program.
- Sta : Status of that program.
- Mute : Mute on/off of that program (depends on work station model)
- Pri : Priority of that program (depends on workstation model).
- MIDI : MIDI Channel of the timbre.
- Key Zone : Key zone where that program is assigned to, both lower and upper key.
- Vel. Zone : Velocity zone where that program is active, both lower and upper velocity.
- OSC Mode : Oscillator mode of that program.
- OSC Sel : Oscillator select of that program.
- Trans : Transpose of that program.
- Porta : Portamento (time or according program) of that program.
- BRng : (Pitch) Bend Range of that program.

The Assigned Clear Program is used for clearing timbres and will be discussed in paragraph 7.5.2.3.

7.5.2 Commands

7.5.2.1 Move Up Command

Activation prerequisite: select one or more timbres in the patches list, without selecting the first patch.

The command can be activated by:

- Select the Move Up menu item in the Edit menu.
- Click the Up button.
- Press the up cursor key on the numeric keyboard (on the 8 key).
- Press Alt-u until the Up button is highlighted and press Enter.

This command moves all selected timbres one position up. The selected timbres do not have to be contiguous.

When this command is used, the changed file attribute (the asterisk in the title of the window) will not be shown in the Combi window, but in its parent PCG file window.

7.5.2.2 Move Down Command

Activation prerequisite: select one or more timbres in the timbres list, without selecting the last patch.

[1] In case of a General MIDI program, always GM is shown as bank, even if the bank is g(1)..g(d).
[2] In case of a General MIDI program, ??? is shown since that information is not available.
[3] Workstation model dependent feature.

The command can be activated by:

- Select the Move Down menu item in the Edit menu.
- Click the Down button.
- Press the Down cursor key on the numeric keyboard (on the 2 key).
- Press Alt-d until the Down button is highlighted and press Enter.

This command moves all selected patches one position up. The selected patches do not have to be contiguous.

When this command is used, the changed file attribute (the asterisk in the title of the window) will not be shown in the Combi window, but in its parent PCG file window.

7.5.2.3 Clear Command

Activation prerequisite: select one or more timbres.

The command can be activated by:

- Select the Clear menu item in the Edit menu.
- Click the Clear button.
- Press Alt-c until the Clear button is highlighted and press Enter.

This command clears the selected timbre(s). Clearing a timbre means:

- Program set to the Assigned Clear Program shown in the bottom of the screen.
- Status set to Off.
- Muted.
- Volume set to 0.
- MIDI Channel set to 16.
- Bottom/Top key set to the lowest key.
- Bottom/Top velocity set to 0.
- Osc Mode set to Mono.
- Osc Select set to OSC2.
- Transpose set to 0.
- Portamento set to 0.
- Bend Range set to 0.

When this command is used, the changed file attribute (the asterisk in the title of the window) will not be shown in the Combi window, but in its parent PCG file window.

The reason that some values may seem strange (e.g. like setting the bottom/top velocity both to 0), is on purpose. This way, it is immediately visible on the workstation that this timbre is not used. When copy a timbre from another combi on a workstation, automatically all parameters will be overwritten anyway. For the Kronos however there is even a better solution; see the next paragraph.

7.5.2.4 Assigned Clear Program

A combi can contain up to 8 or 16 timbres, depending on the workstation model. However, in most cases not all of these are used. It is very hard to see which timbres are used and which not, except on

the page that shows the State (INT/EXT/EX2) or Mute (On/Off). Therefore, when clearing timbres some values on other pages will have non default values to see more easily that timbres are not used.

For the program being used for a cleared program, the Assigned Clear Program is used which is shown in the bottom part of the Combi Window. This program can be changed in the following way:

- Go to the PCG Window
- Select a single program.
- From the Settings menu, select the 'Assign Clear Program' menu option.

Every opened Combi Window will then display that Assigned Clear Program and use it. When assigned, the following message is shown.

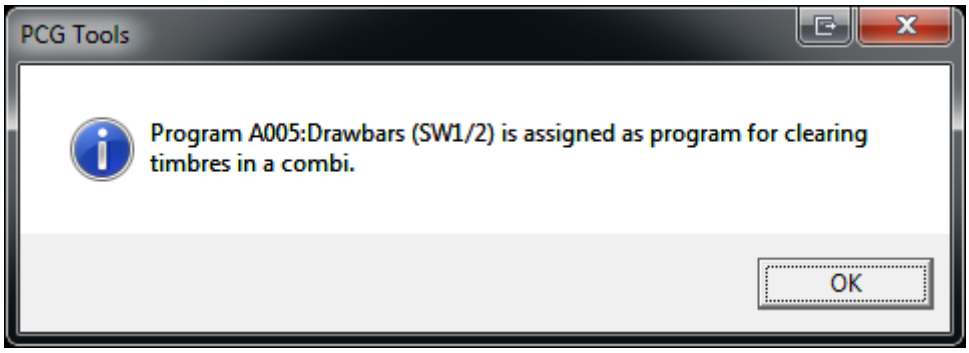


Figure 59: Assign Clear Program

The program has to be set once per PCG Window that is opened. The reason is that every PCG file can have different programs so it is not possible (easily) to store this value. Once set, it will be used for all Combi Windows opened within that PCG file.

TIP: For the Kronos (X) this function is even more useful. When using a program that uses a sample that is not loaded, a red bar in the top of each screen of that Combi will show up. So you can see immediately in all Combi screens that that particular timbre is not used. Therefore, it is advised to create a program with an unloaded sample in it and use that program as the Assigned Clear Program.

7.6 Generate List

With this command you can make different kind of lists based on the information in the PCG.

The command can be activated by:

- Select the Generate List menu item in the Tools menu.
- Press Ctrl-G key.
- Select the Generate List tool bar icon in the toolbar (the page with the grey thick lines on it).
- Click the Generate List… button.
- Press Alt-g

A new dialog is shown with a lot of options. See Figure 60 for a screenshot.

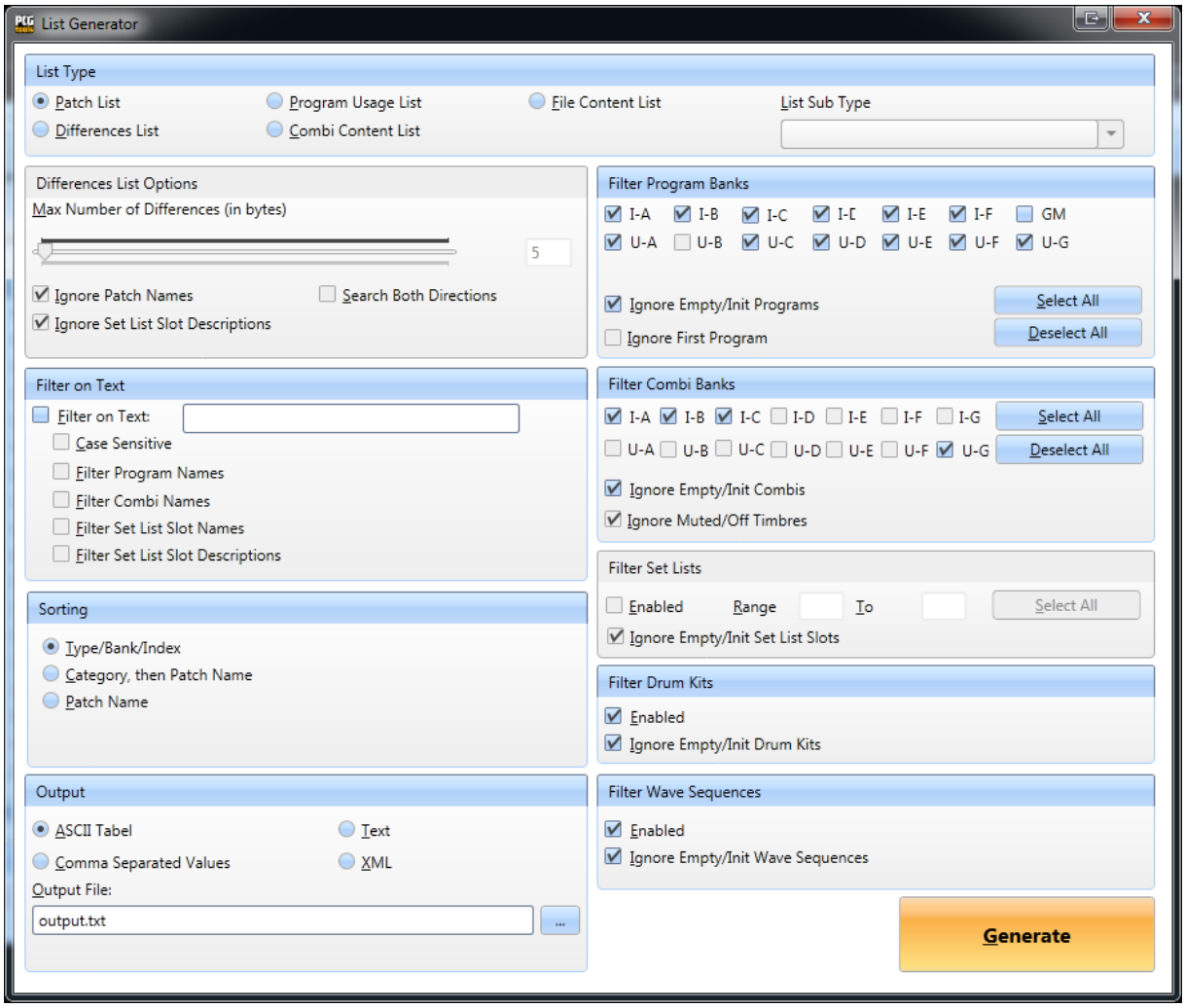


Figure 60: List Generator

The most important is the List Type group box, where you can select what kind of list type you want to generate (and if applicable list sub type). With other settings you can change filtering, sorting and selecting the output.

After selecting all options, press the Generate button to show the output.

7.6.1 List Types

The types of lists that can be generated is shown in Table 23.

List Type	Description
Patch List	Generates a list that contain programs, combis and set list slots.
Program Usage List	Generates a list that per program shows in which combis it is used. It also shows per program and combi in which set list slots those are used.
Combi Content List	Generates a list of timbres per combi.
Differences List	Generates a list of patches that are (more or less) duplicates.
File Content List	Generates a summary of the content of the file.

Table 23: List Types

All options will be explained in Paragraph 7.6.2).

In the following paragraphs each list type is explained in detail.

For each list type some output formats are shown except for CSV files (since these require some post processing, see Paragraph 7.6.2.9.1).

7.6.1.1 Patch List

The patch list shows a list of all (filtered) programs, combis and set list slots.

The table below shows all columns being generated.

Column name	Description	Conditions
Patch Name	Name of the program, combi, or set list slot	-
Patch Type	Program, Combi or Set List Slot	-
Patch ID	ID of the patch, e.g. I-B036 for programs or combis or 001/017 for set list slots.	-
Category*	Category name or number of the program or combi	Only displayed for programs or combis.
Sub Category*	Sub category name or number of the program or combi	Only displayed for programs or combis and if supported by the workstation model.
Set List Slot Description*	Description of the set list slot.	Only displayed for set list slots.

* For the ASCII Table output format, when the work station model supports Set List Slots, these three columns share a column named "Category/Sub Category for Programs/Combis or Set List Slot description for Set List Slots".

Below are some examples of fragments of generated Patch Lists.

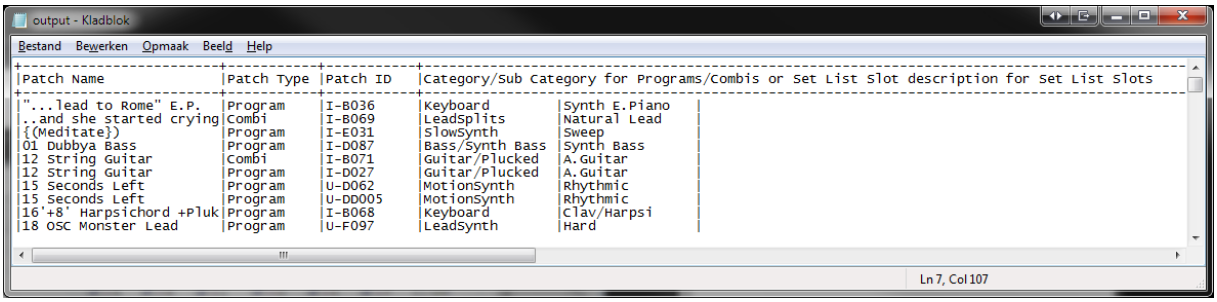
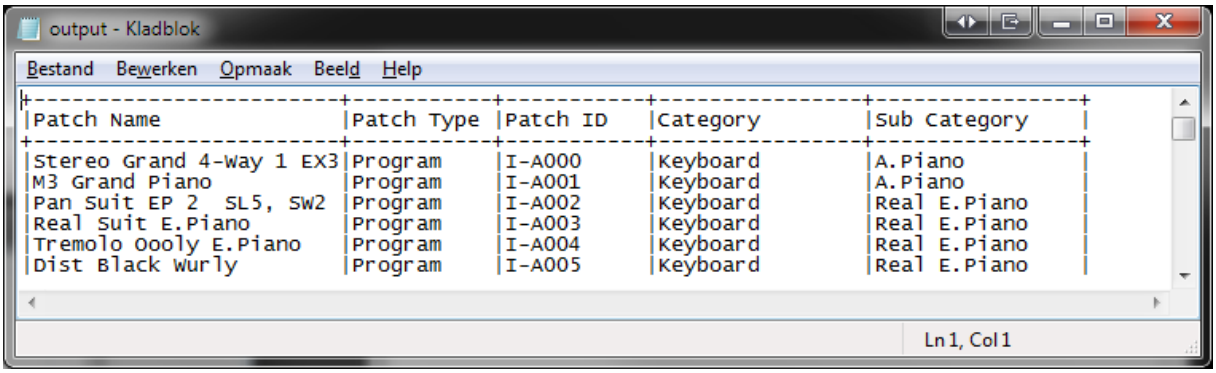


Figure 61: Patch List in ASCII Table, sorted by name



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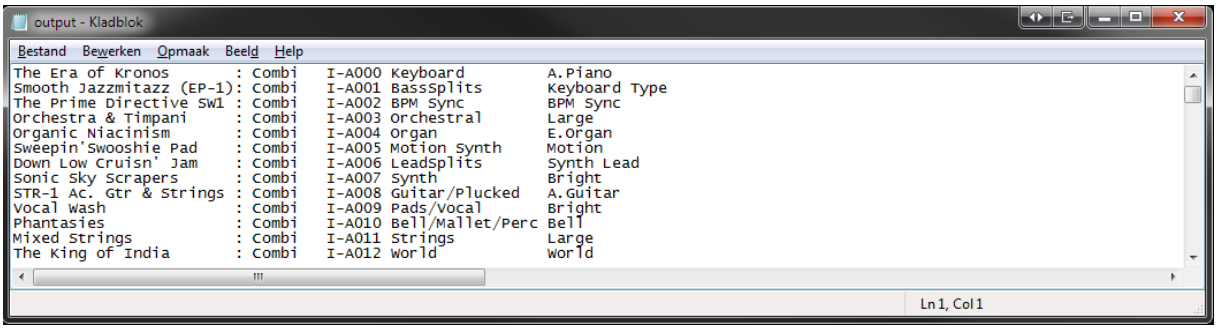
Patch Name	Patch Type	Patch ID	Category	Sub Category
Stereo Grand 4-Way 1 EX3	Program	I-A000	Keyboard	A.Piano
M3 Grand Piano	Program	I-A001	Keyboard	A.Piano
Pan Suit EP 2 SL5, SW2	Program	I-A002	Keyboard	Real E.Piano
Real Suit E.Piano	Program	I-A003	Keyboard	Real E.Piano
Tremolo Oooly E.Piano	Program	I-A004	Keyboard	Real E.Piano
Dist Black Wurly	Program	I-A005	Keyboard	Real E.Piano

Ln 1, Col 1

Figure 62: Patch List of programs only, in ASCII Table output, sorted by bank/index.



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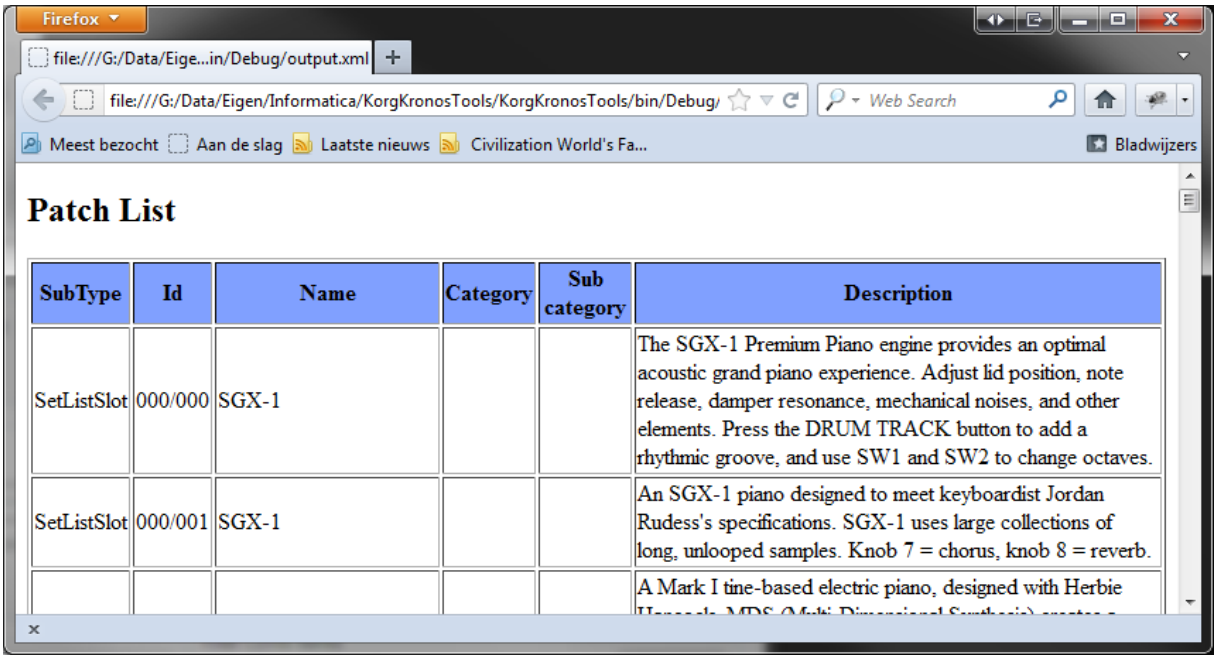
The Era of Kronos	: Combi	I-A000	Keyboard	A.Piano
Smooth Jazzmitazz (EP-1)	: Combi	I-A001	BassSplits	Keyboard Type
The Prime Directive SW1	: Combi	I-A002	BPM Sync	BPM Sync
Orchestra & Timpani	: Combi	I-A003	Orchestral	Large
Organic Niacinism	: Combi	I-A004	Organ	E.Organ
Sweepin'Swooshie Pad	: Combi	I-A005	Motion Synth	Motion
Down Low Cruisn' Jam	: Combi	I-A006	LeadSplits	Synth Lead
Sonic Sky Scrapers	: Combi	I-A007	Synth	Bright
STR-1 Ac. Gtr & Strings	: Combi	I-A008	Guitar/Plucked	A.Guitar
Vocal Wash	: Combi	I-A009	Pads/Vocal	Bright
Phantasies	: Combi	I-A010	Bell/Mallet/Perc	Bell
Mixed Strings	: Combi	I-A011	Strings	Large
The King of India	: Combi	I-A012	World	World

Ln 1, Col 1

Figure 63: Patch List with Combis, Text Output



Firefox

file:///G:/Data/Eige...in/Debug/output.xml

file:///G:/Data/Eigen/Informatica/KorgKronosTools/KorgKronosTools/bin/Debug/

Web Search

Meest bezocht Aan de slag Laatste nieuws Civilization World's Fa... Bladwijzers

Patch List

SubType	Id	Name	Category	Sub category	Description
SetListSlot	000/000	SGX-1			The SGX-1 Premium Piano engine provides an optimal acoustic grand piano experience. Adjust lid position, note release, damper resonance, mechanical noises, and other elements. Press the DRUM TRACK button to add a rhythmic groove, and use SW1 and SW2 to change octaves.
SetListSlot	000/001	SGX-1			An SGX-1 piano designed to meet keyboardist Jordan Rudess's specifications. SGX-1 uses large collections of long, unlooped samples. Knob 7 = chorus, knob 8 = reverb.
					A Mark I tine-based electric piano, designed with Herbie

Figure 64: Patch List with Set List Slots, XML Output (shown in browser)

7.6.1.2 Program Usage List

The Program Usage List shows a list that contains for each program, all combis and set list slots where that program is used in.

The Filter Program Banks options can be used to only check those programs.

For all programs (selected in the Filter Program Banks), the settings in the Combi Banks and Filter Set Lists groups are used for each program.

[EXAMPLE]: If only the I-A and I-B banks in Filter Program Banks are selected and U-C and U-D combi banks and set list 1 to 5, then a list will be generated that checks for all programs in banks I-A and I-B if they are used in combi banks U-C and U-D and/or set lists 1 to 5.

The following figures show some examples of fragments of the output.

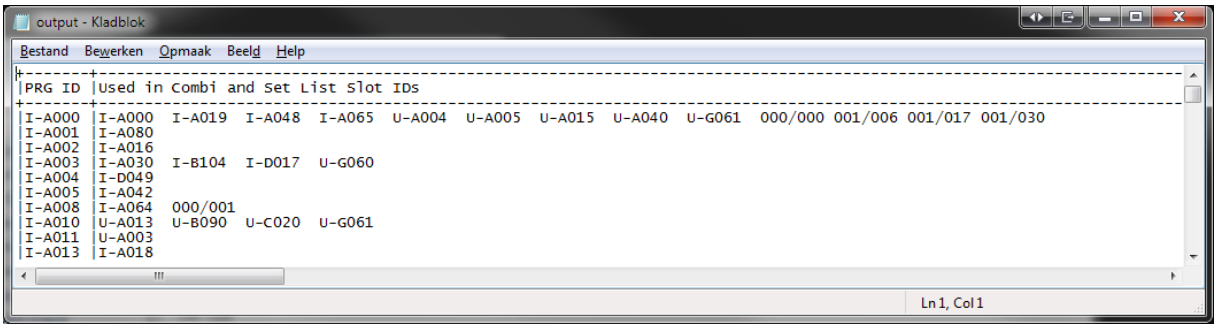


Figure 65: Programs Usage List, ASCII Table Output

This means: Program I-A000 is used in combi I-A019, I-A048, I-A065 etc. and used in set list 0, slot 0, set list 1, slots 6, 17 and 30.

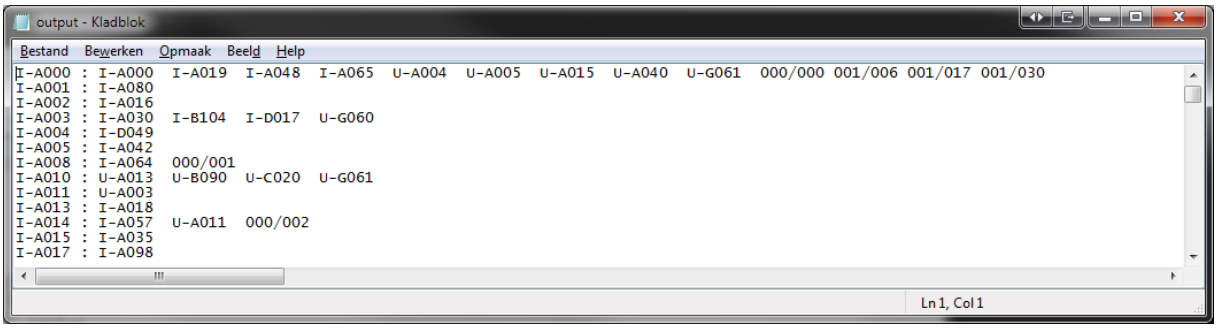


Figure 66: Programs Usage List, Text Output

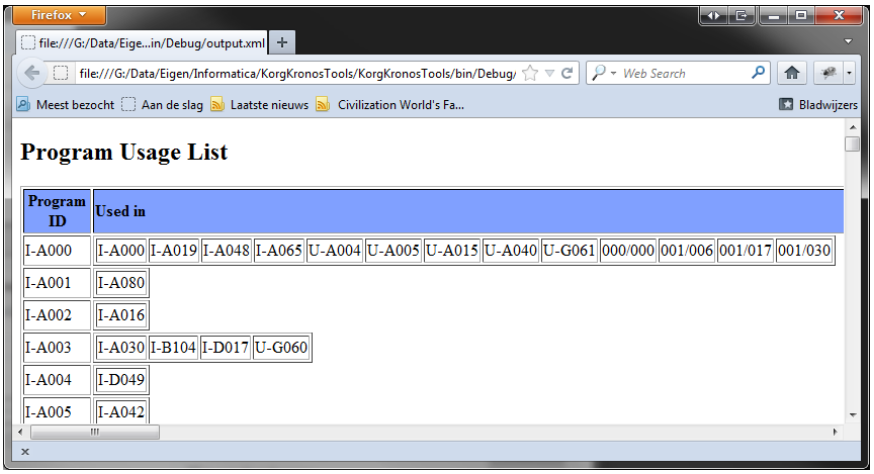


Figure 67: Programs Usage List, XML Output

7.6.1.3 Combi Content List

The Combi Content list shows a list of all (filtered) combis with some generic info about those timbres and information about the timbres. This list type has three list sub types, which configures the amount of detail to be shown.

7.6.1.3.1 Compact Combi Content List

This list shows the programs used by each timbre after removing duplicates and ordered by bank/index.

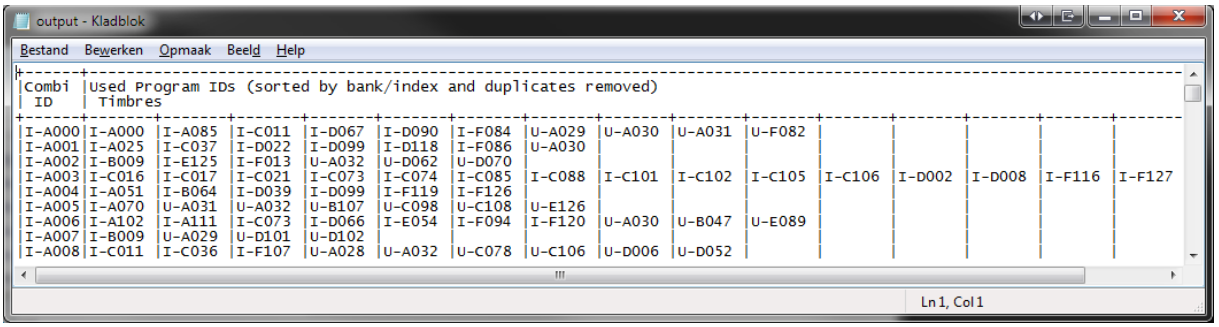


Figure 68: Combi Content List, Compact form, ASCII Table Output

7.6.1.3.2 Short Combi Content List

This list shows the programs used by each timbre in the correct timbre index.

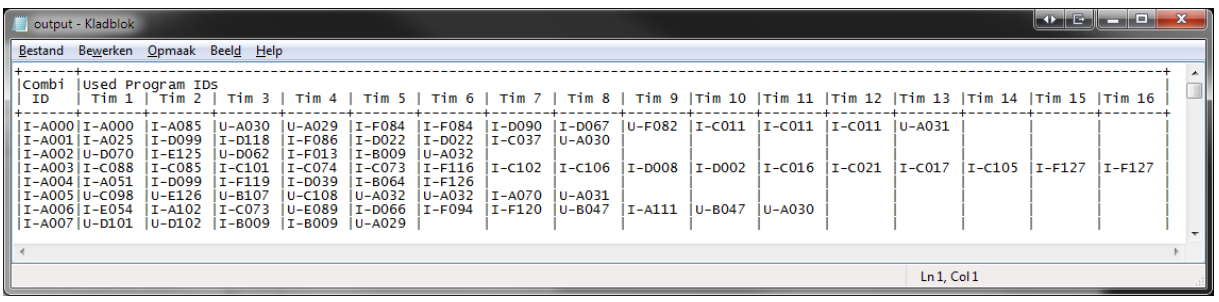


Figure 69: Combi Content List, Short Form, ASCII Table Output

7.6.1.3.3 Long Combi Content List

This list shows more detailed info about each (filtered) combi and its used programs.

Depending on the number of combis selected, the output can be very long (max. 26 lines per combi, on a Korg Kronos this would result for all combis a text file of almost 30,000 lines, the default is 10,000 lines). However, even if the output can be a long file, the generation is finished almost instantly.

Because the output is not a table and text output would not look nice, only ASCII Table output is selectable for this list sub type.

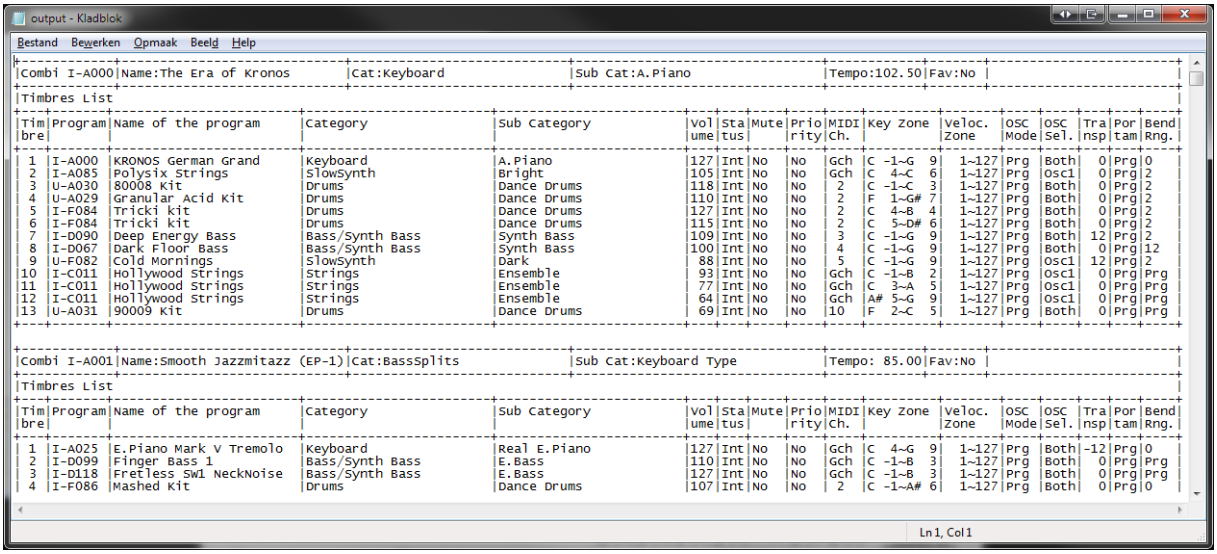


Figure 70: Combi Content List, Long Form, ASCII Table Output

7.6.1.4 Differences List

This list differs each (filtered) patch to all other patches (of the same type) and list them if they are (more or less) equal. See for an example of a text output file, the screenshot at Figure 71.

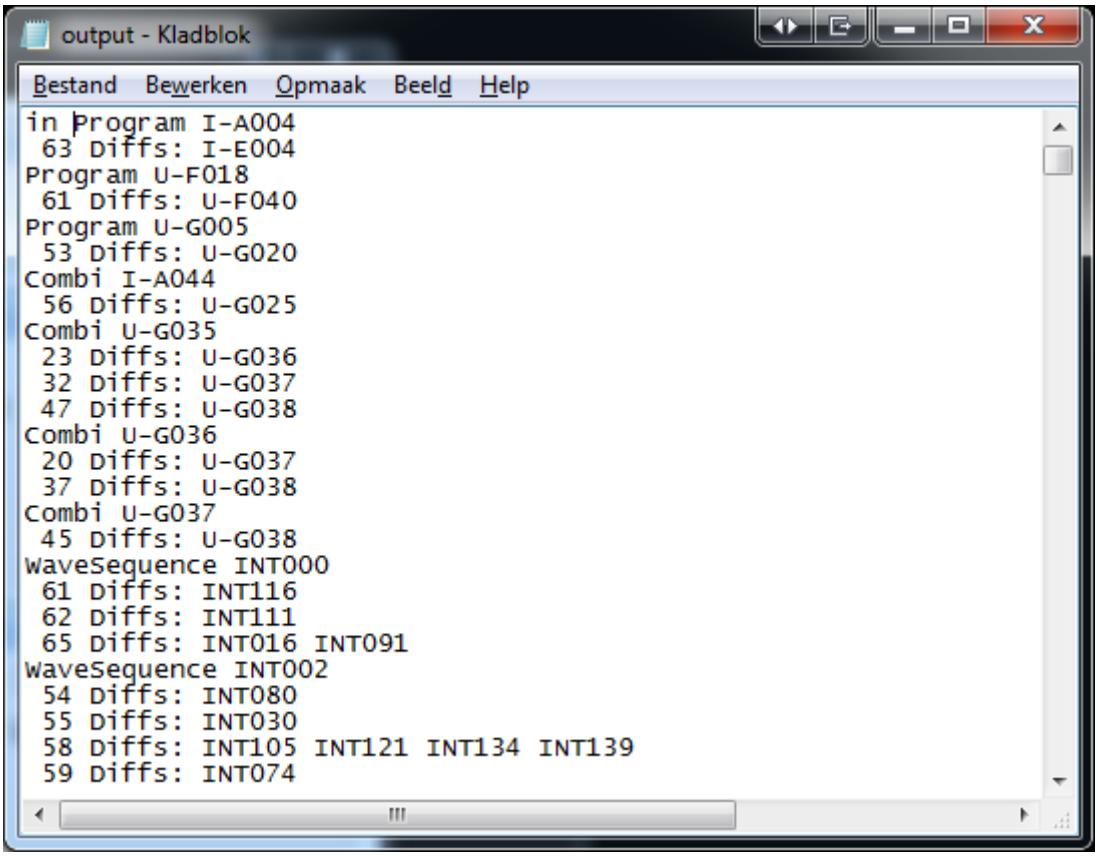


Figure 71: Differences List

For this type of list, some extra options are available in the Differences List Options which are only enabled if the Differences list is selected and these options are shown below.

Item Name	Description
Max Number of Differences (in bytes)	Defines how many bytes a patch may differ at maximum. A rough thumb rule is that one parameter equals one byte.
Ignore Patch Names	Since a patch name is irrelevant for the sound/settings of the patch, when unchecked, the patch name will not be taken into account for calculating the number of differences between two patches.
Ignore Set List Descriptions	Since a set list slot description is irrelevant for the sound/settings of a set list slot, when unchecked, the set list description will not be taken into account for calculating the number of differences between two set list slots.
Search Both Directions	Normally, each patch only checks patches further into the banks/indices, which this option you can switch this search algorithm off. E.g. When unchecked, program I-C040 is checked against programs I-C041 to I-C127 and all patches in further banks (assuming the Filter Program Banks has all bans selected).

Table 24: Differences List Options

To generate such a list can take a lot of time, especially for the Kronos (which has a lot of program banks), if all program banks are selected (default setting). With the default settings, creating a difference list for a complete Kronos PCG file takes (on my computer) about 25 seconds. If you change the max. number of difference to 500 (bytes), it takes 2 minutes, 20 seconds.

For an Oasys default PCG file generating this list costs about 20 seconds and for other workstations (considerably) less.

[WARNING]: For PCG files created with a Kronos with OS1.5, certain parameters (such as program/combi references are not always taken into account). This can result in a few too less differences being counted.

Table 25 shows the properties/settings affecting the speed of generating this list.

Item Name	Description
Max Number of Differences (in bytes)	The more differences are allowed, the longer it takes to check two patches against each other (if more than the maximum number of specified changes have been found, the check is stopped, and the next set of two patches can be checked).
Search Both Directions	Note that searching in both direction can take twice as long, because all previous patches have to be calculated for the number of differences too.
All filter settings	Since the filter settings which patches to be checked, it immediately affects the number of pairs to be checked. Especially the amount of program banks selected (either by Filter on Text, Filter Program Banks and Filter on Favorites) matters.
Speed of the (available) computer CPU/Cores	The processing speed of your computer also affect the speed of generating this list.

Table 25: Properties/Settings affecting generation speed of Differences List

[BACKGROUND]: Suppose all program banks are selected (20 on a Kronos, GM banks are ignored). Then 20 * 128 = 2560 patches have to be checked against each other, resulting in 6.5M pairs of programs to be checked (if Search Both Directions would be enabled, otherwise it can be halved). Let us assume almost all programs are quite similar and all programs are EXI (modeled) programs using 4960 bytes. This means 6,5M x 4960 bytes = 3.25×10^{10} byte difference checks.

For non Kronos PCG files it probably takes not that long, but since the computer CPU also is relevant, always the following warning is displayed:

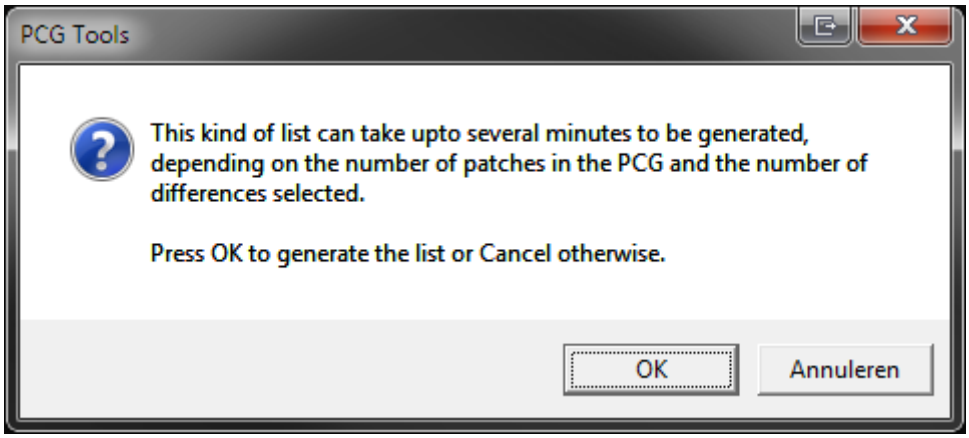


Figure 72: Dialog before generating a Differences List

7.6.1.5 File Content List

This list shows a summary of all banks of the loaded PCG file. See Figure 73 for an example

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Bank Type	Content Type	Bank ID	# Writable	# Filled	# Empty	Patch IDs of filled patches
ProgramBank	ModeledPrograms	I-A	128	128	0	I-A000~I-A127
ProgramBank	SampledPrograms	I-B	128	128	0	I-B000~I-B127
ProgramBank	SampledPrograms	I-C	128	128	0	I-C000~I-C127
ProgramBank	SampledPrograms	I-D	128	128	0	I-D000~I-D127
ProgramBank	SampledPrograms	I-E	128	128	0	I-E000~I-E127
ProgramBank	SampledPrograms	I-F	128	128	0	I-F000~I-F127
ProgramBank	SampledPrograms	U-A	128	128	0	U-A000~U-A127
ProgramBank	ModeledPrograms	U-B	128	128	0	U-B000~U-B127
ProgramBank	ModeledPrograms	U-C	128	128	0	U-C000~U-C127
ProgramBank	ModeledPrograms	U-D	128	128	0	U-D000~U-D127
ProgramBank	ModeledPrograms	U-E	128	128	0	U-E000~U-E127
ProgramBank	ModeledPrograms	U-F	128	128	0	U-F000~U-F127
ProgramBank	ModeledPrograms	U-G	128	2	126	U-G000~U-G001
CombiBank	Combis	I-A	128	128	0	I-A000~I-A127
CombiBank	Combis	I-B	128	128	0	I-B000~I-B127
CombiBank	Combis	I-C	128	128	0	I-C000~I-C127
CombiBank	Combis	I-D	128	96	32	I-D000~I-D095
CombiBank	Combis	I-E	128	0	128	
CombiBank	Combis	I-F	128	0	128	
CombiBank	Combis	I-G	128	0	128	
CombiBank	Combis	U-A	128	0	128	
CombiBank	Combis	U-B	128	0	128	
CombiBank	Combis	U-C	128	0	128	
CombiBank	Combis	U-D	128	0	128	
CombiBank	Combis	U-E	128	0	128	
CombiBank	Combis	U-F	128	0	128	
CombiBank	Combis	U-G	128	0	128	
SetList	SetListSlots	000	128	32	96	000/000~000/031
WaveSeqBank	WaveSequences	INT	150	140	10	INT000~INT139
WaveSeqBank	WaveSequences	U-A	32	25	7	U-A000~U-A024
WaveSeqBank	WaveSequences	U-B	32	0	32	
WaveSeqBank	WaveSequences	U-C	32	0	32	
WaveSeqBank	WaveSequences	U-D	32	0	32	
WaveSeqBank	WaveSequences	U-E	32	0	32	
WaveSeqBank	WaveSequences	U-F	32	0	32	
WaveSeqBank	WaveSequences	U-G	32	0	32	
DrumKitBank	DrumKits	INT	40	40	0	INT000~INT039
DrumKitBank	DrumKits	U-A	16	16	0	U-A000~U-A015
DrumKitBank	DrumKits	U-B	16	16	0	U-B000~U-B015
DrumKitBank	DrumKits	U-C	16	6	10	U-C000~U-C005
DrumKitBank	DrumKits	U-D	16	0	16	
DrumKitBank	DrumKits	U-E	16	0	16	
DrumKitBank	DrumKits	U-F	16	0	16	
DrumKitBank	DrumKits	U-G	16	0	16	

Figure 73: File Content List

For each bank the following information is shown:

- Bank Type, shows if the bank contains programs, combis, set lists, wave sequences or drum kits.
- Content Type: Mostly the type is trivial, but for the Korg Kronos (X) and Oasys, for programs the type of programs is shown (either sampled or modeled).
- Bank ID: The ID of the bank.
- # Writable: The number of writable patches (i.e. total storage).
- # Filled: The number of filled (non-initialized) patches.
- # Empty: The number of unfilled (initialized) patches.
- Patch IDs of filled patches: the range or ranges of the filled patches.

7.6.2 Settings

Besides the list types mentioned already before, a lot of settings can be made to tweak the list generation, see the screenshot at Figure 74.

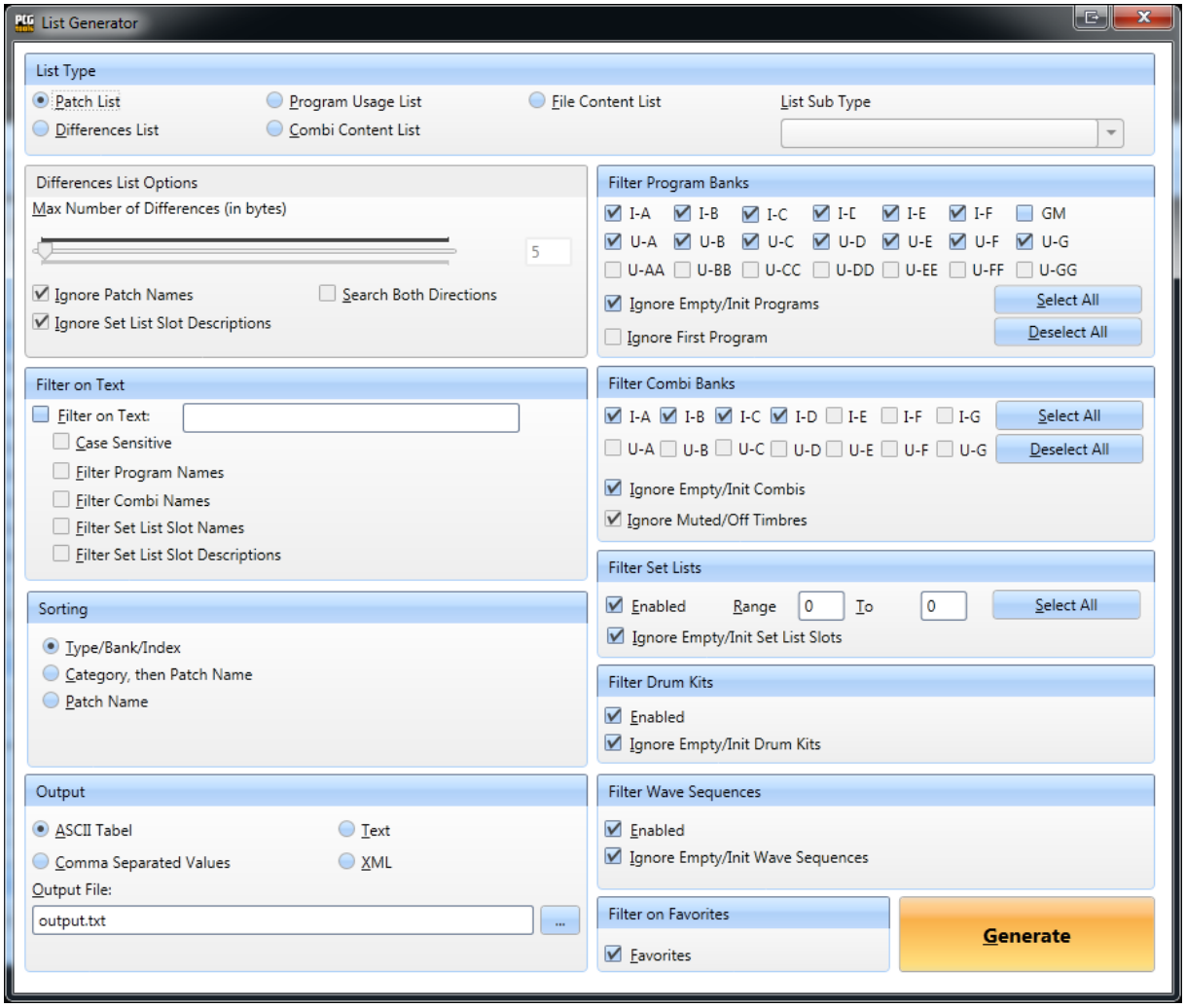


Figure 74: List Generator settings

Most have to do with filtering (decreasing the number of items in the list), sorting and selecting the output type. The settings are grouped in Table 26.

List Generator Settings Group	Decription
Differences List Options	These options are only used for the Differences List.
Filter on Text	Filter different patch names on text. Also set list slot descriptions can be searched (Kronos (X) only)
Sorting	Defined the way the generated list is sorted.
Output	Defines the type of output file that is generated.
Filter Program Banks	Shows or hides certain program banks or certain programs.
Filter Combi Banks	Shows or hides certain combi banks or certain combis.
Filter Set Lists	Shows or hides certain set lists or certain set list slots.
Filter Drum Kits	Shows or hides certain drum kits banks or certain drum kits.
Filter Wave Sequences	Shows or hides certain wave sequence banks or certain wave sequences.
Filter on Favorites	Shows or hides favorites. This can be either programs or combis (Kronos (X) only).

Table 26: List Generator Settings Groups

In the following paragraphs all settings will be explained in more detail.

7.6.2.1 Filter On Text

The settings in this box are used for using only patches with a certain (part of the) name. In Table 27 is shown what each setting means.

Setting	Description
Filter On Text	With this option you can switch on/off text searching. If switched on all other controls become enabled.
Filter On Text, Text part	Text to be used for filtering. Below can be defined what parameters are used for text filtering.
Case Sensitive	If switched on, the text entered has to be exactly be a part of the patch name/description, otherwise the case is irrelevant.
Filter Program Names	When switched on, all programs containing a part of the filter text in their name are used. If switched off, program names are not filtered for text.
Filter Combi Names	When switched on, all combis containing a part of the filter text in their name are used. If switched off, combi names are not filtered for text.
Filter Set List Slot Names	When switched on, all set list slots containing a part of the filter text in their name are used. If switched off, set list slot names are not filtered for text.
Filter Set List Slot Descriptions	When switched on, all set list slots containing a part of the filter text in their descriptions are used. If switched off, set list slot descriptions are not filtered for text.

Table 27: Filter On Text Settings

[Example]: To find out all patches (programs, combis and set list slots) that have piano in their name, switch on Filter On Text, type as text 'piano', switch off case sensitive, enable all other filtering settings and press Generate. Figure 75 shows a fragment of the output.

Note that if you would have searched the category for keyboards/pianos on your workstation, you would not have found Combi I-A019 since it is in category BassSplits.

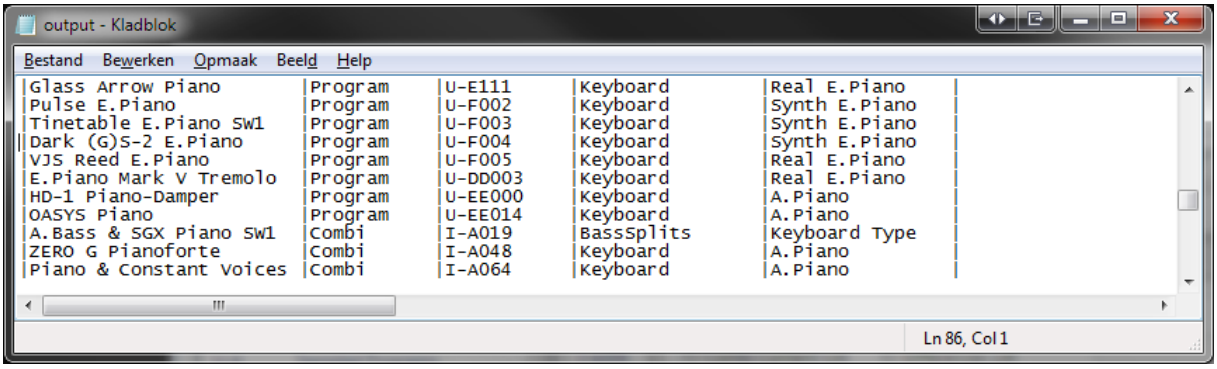


Figure 75: Searching for patches with a certain name in it (1)

[Example]: You cannot remember where the patch (program or combi) is located with the name Indigo in it. Just search for it and get something like Figure 76.

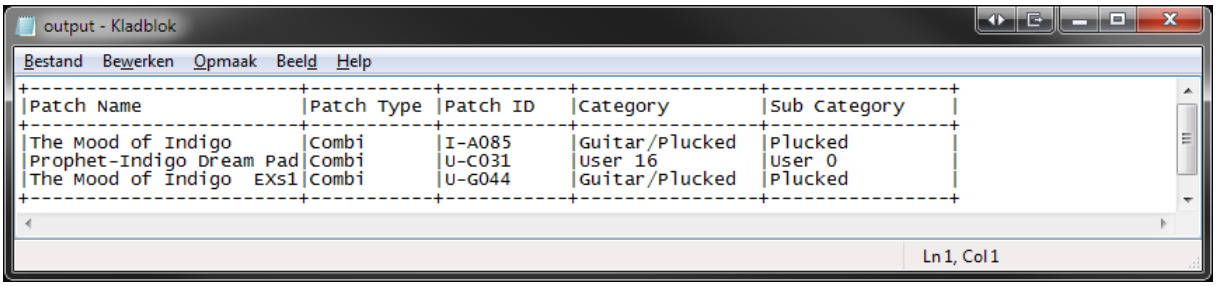


Figure 76: Searching for patches with a certain name in it (2)

[EXAMPLE]: When adding a special text to any of the patch names you want to mark in a special way, you can generate a patch list containing this mark. E.g. when marking a program with ^ at the end to show you have edited it or have created it yourself, you can very easily create a patch list with a filter on this character to get a list of all patches you edited/created.

[TIP]: [NON KRONOS ONLY]: You can use the example above to emulate favorite programs by using e.g. %F or one or two other symbols. Of course you will not be able to search it directly on your workstation but by creating a list with PCG Tools it is easy to find them.

[EXAMPLE] [KRONOS ONLY]: When you put in the description of your set lists keywords you can find them very easily. For example, if you put the text #SET1 in your description for every song that you play in set 1 of your band and #SET2 and #SET3 for your other sets, you can very easily make set lists by generating a patch list containing all set lists containing the word SET (for all 3 sets), SET1, SET2 or SET3. You even can use multiple keywords for the same set list slot, e.g. adding keywords #SET1, #SELFMADE, #PROJECT_X.
If you use this option, also consider using PCG Tools for editing set list slots, because it can add

returns (new lines), so you can put your keywords on new lines in such a way you will not see them directly when iterating through the set list slots.

7.6.2.2 Filter Program Banks

This box contains a lot of settings, but the most important are all program bank check boxes. It only shows program banks that are valid for your workstation (although some Korg Triton Workstation might show too many).

Program banks which are not present in the PCG file cannot be selected (these are disabled). Also the GM bank is default switched off (it is not in the PCG file).

The buttons Select All and Deselect All can be used for switching all program banks present in the PCG file on or off. Note that the GM bank is also switched with this setting so check it manually before using it to generate a list.

Furthermore it has two different options:

- Ignore Empty/Init Programs: Default it is switched on, to make sure empty or init programs will not be used for generating lists. This means that programs with an empty name (after clearing them) or with an initialized name (default name after initializing a program on your workstation) will not show up in the Patch List, or will not be used in the Program Usage List or any other list.
- Ignore First Program: In most cases, unused timbres reference to program I-A000 or A000 even if not used. These unused timbres are mostly muted or have a status set to OFF, but sometimes you might want to show every reference, but there are cases of PCG files where this is not true, so this setting can be changed to be flexible.

7.6.2.3 Filter Combi Banks

Filter Combi Banks acts like Filter Program Banks (see previous paragraph), but for combi banks.

This box contains a lot of settings, but the most important are the combi bank check boxes. It only shows combi banks that are valid for your workstation (although some Korg Triton Workstation might show too many).

Combi banks which are not present in the PCG file cannot be selected.

The buttons Select All and Deselect All can be used for switching all combi banks present in the PCG file on or off.

Furthermore it has two different options:

- Ignore Empty/Init Combis: Default it is switched on, to make sure empty or init combis will not be used for generating lists. This means that combis with an empty name (after clearing them) or with an initialized name (default name after initializing a combi on your workstation) will not show up in the Patch list, or will not be used in the Combi Usage List or any other list.
- Ignore Muted/Off Timbres: This option is only used for the Combi Content List (which shows timbre information) and Programs Usage List (which uses references to programs from

combis). Normally you do not want to have muted or programs with status Off being used in lists, however some users switch timbres on while playing (especially live) and then those programs should be used while generating a list.

[Example]: To show for all programs in program bank I-C in which of combi I-A to I-G they are used, select Program Usage List, select the program and combi banks mentioned above and generate the list. Figure 77 shows a fragment of the output.

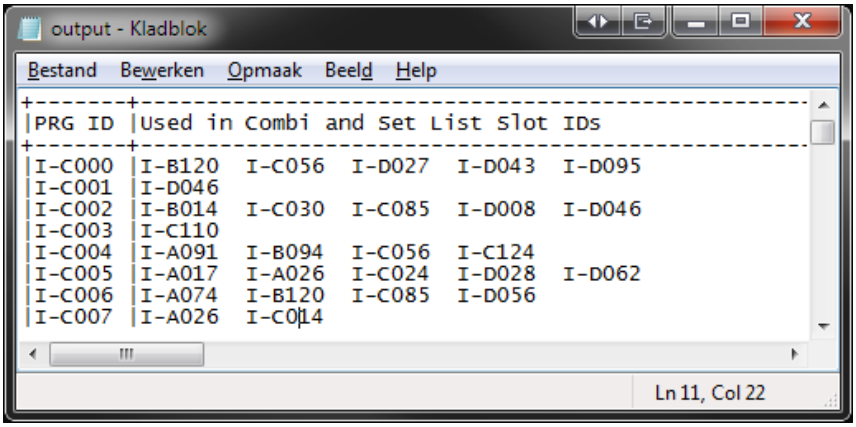


Figure 77: Combis using a Program

[Example]: To show for all combis from combi banks I-A to I-G the usage of programs in program bank I-C, select Combi Content List, select the program and combi banks mentioned and generate the list. Figure 78 shows a fragment of the output. You also can use a Long sub type, to get more details from the timbres.

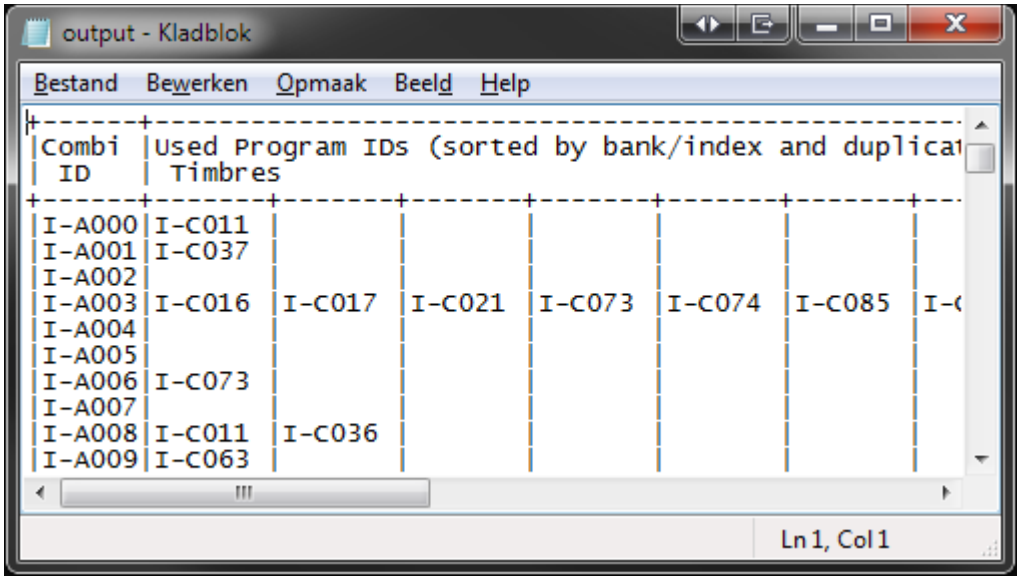


Figure 78: Programs being used by Combis

7.6.2.4 Filter Set List Slots [KRONOS ONLY]

This setting is used to filter for set lists. The Enabled button switches the complete filtering for set lists on or off and the range (both inclusive) specifies which set lists to be taken into account.

The button Select All is used to select all set lists which are filled (partially or complete).

Furthermore it has the following option:

- Ignore Empty/Init Set List Slots: Default it is switched on, to make sure empty or init set list slots will not be used for generating lists. This means that set list slots with an empty name (after clearing them) or with an initialized name (default name after initializing a set list slot on your workstation) will not show up in the Patch list).

[EXAMPLE]: To get a list of which programs are used by set list slots of set list 0 (default), select Program Usage List, deselect all combis, set the filter set lists range from 0 to 0 and press Generate. Figure 79 shows a fragment of the output.

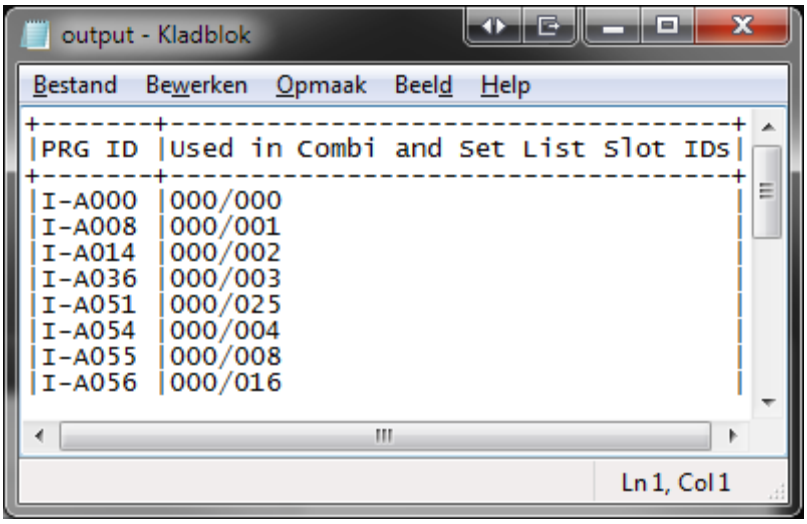


Figure 79: Programs used by a certain Set List Slot

7.6.2.5 Filter Drum Kits

This setting is used to filter for drum kits. Drum kits cannot be selected per bank, but only for all banks or none (Enabled or not).

Furthermore it has the following option:

- Ignore Empty/Init Drum Kits: Default it is switched on, to make sure empty or init drum kits will not be used for generating lists. This means that drum kits with an empty name (after clearing them) or with an initialized name (default name after initializing a drum kit on your workstation) will not show up in the Patch list).

7.6.2.6 Filter Wave Sequences

This setting is used to filter for wave sequences. Wave sequences cannot be selected per bank, but only for all banks or none (Enabled or not).

Furthermore it has the following option:

- Ignore Empty/Init Wave Sequences: Default it is switched on, to make sure empty or init wave sequences will not be used for generating lists. This means that wave sequences with an empty name (after clearing them) or with an initialized name (default name after initializing a wave sequence on your workstation) will not show up in the Patch list).

7.6.2.7 Filter on Favorites [KRONOS (X) ONLY]

([NON KRONOS ONLY]: See one of the examples in paragraph 7.6.2.1.)

This setting filters the lists by using only patches marked as favorite.

For the Programs Usage List and the Combi Content List only the main type is filtered for the favorite setting, meaning that for the Programs Usage List, only the programs' favorite settings are taken into account and not the combis' favorite settings.

For the Combi Content List it means that only the combis' favorite settings are taken into account and not the programs' favorite settings.

The Favorites setting can have three states:

- Indeterminate (filled box): Both favorite and non favorite patches are taken into account.
- Checked (√ symbol) : Only favorite patches are taken into account.
- Unchecked (empty box): Only non favorite patches are taken into account.

Set lists are used independent of the setting of Filter on Favorites.

7.6.2.8 Sorting

Currently three sorting types are available, which are explained in the following paragraphs.

The sorting method is only used for the Patch List, for other types it is not supported.

[TIP]: If a certain sort method is not supported or available, you always can generate a comma separated value (CSV) file for certain list types and reorder it in the spreadsheet.

7.6.2.8.1 Type/Bank/Index

This is the default sorting method, which sorts in the following order:

First order key is type, which is 1) Programs, 2) Combis, 3) Set List Slots

Second order is bank, which is the program bank, combi banks and set lists.

Third order is the index within the bank.

This means the order of a complete PCG patch list is:

1. Program Bank A, index 0 to 127
2. All consecutive program banks
3. Combi Bank A, index 0 to 127
4. All consecutive combi banks
5. Set List 0, slots 0 to 127
6. All consecutive set list slots.

Below is an example of a fragment of the (default) Type/Bank/Index sorted Patch List.

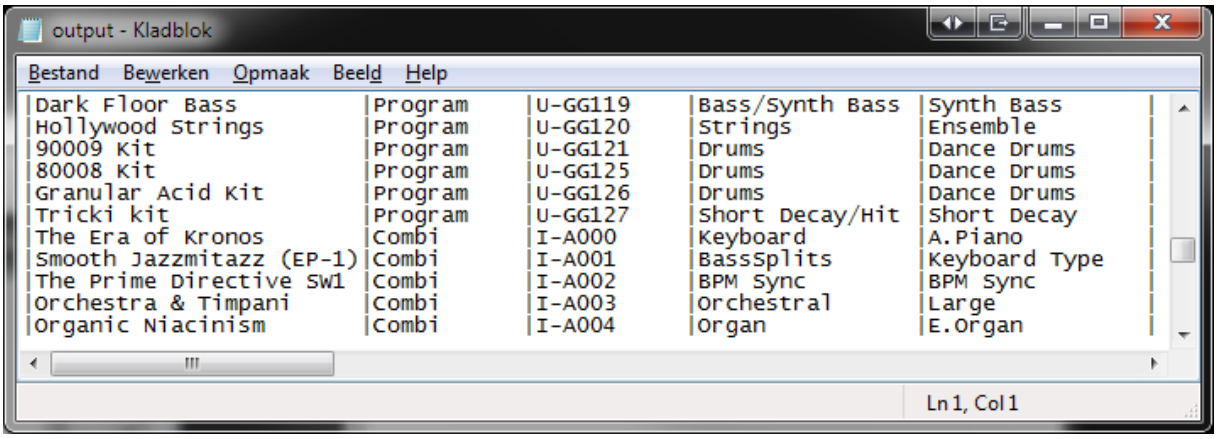


Figure 80: Type/Bank/Index Sorted Patch List

7.6.2.8.2 Category, then Patch Name

This is the sorting method, based on categories:

- First order key is category.
- Second order key is sub category (or ignored if the workstation model does not support it)
- Third sort order is the patch name.

If the PCG file does not contain the global section, then category (and sub category) names are not available. However, category numbers and sub category numbers are so it will not matter in reality.

Since set list slots do not have categories (nor sub categories), set list slots will be appended at the end, sorted only by set list slot name.

Below is an example of a fragment of a category sorted Patch List.

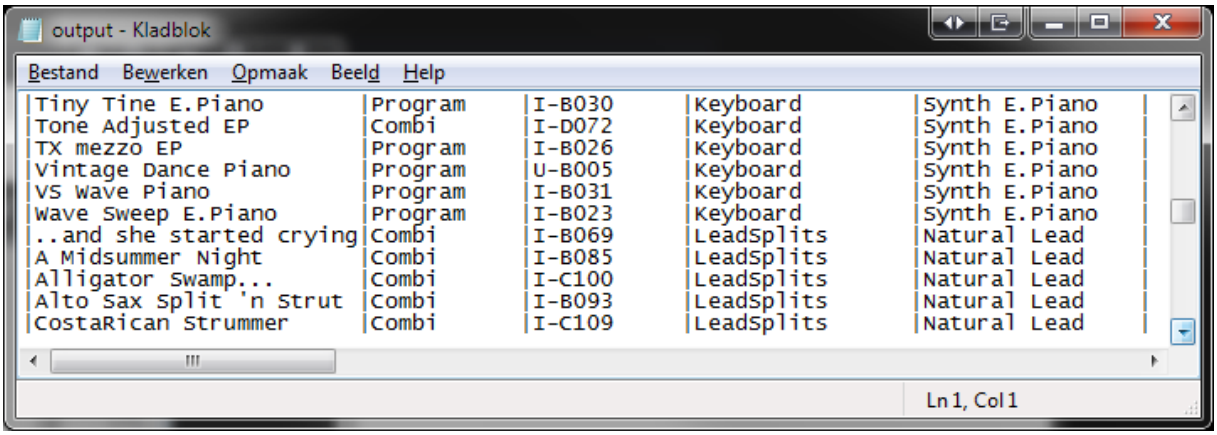


Figure 81: Category Sorted Patch List

7.6.2.8.3 Patch Name

This is the sorting method, based on patch names.

Below is an example of a fragment of the patch name sorted Patch List.

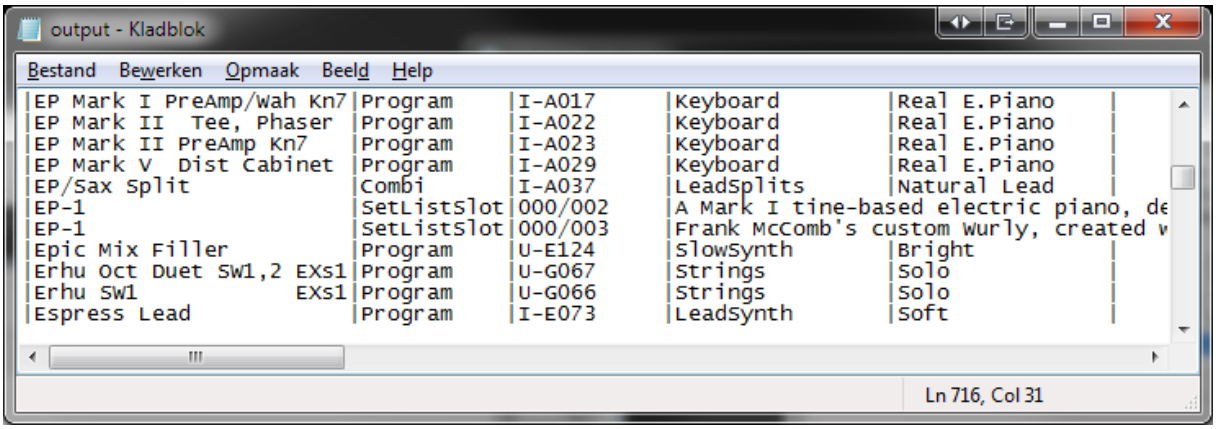


Figure 82: Patch Name Sorted Patch List

7.6.2.9 Output

There are several type of output formats that can be used for generating lists.

The name of the file is shown in the output field. You can type in the file name to be used as output file or browse for a file to be overwritten.

You can use a default extension but it is not necessary. In case you use do not use a default extension (like .txt for a CSV file), then the application connected to such a file is not automatically opened.

In the following paragraphs each output type will be explained in detail with examples.

7.6.2.9.1 ASCII Table Output

This is the default output type showing a text file using ASCII characters (+, - and |, see below) for creating a table which is opened by your default text viewer/editor as long as the output file ends with .txt; the default name is output.txt.

Below is an example of a fragment of a Patch List with ASCII Table output.

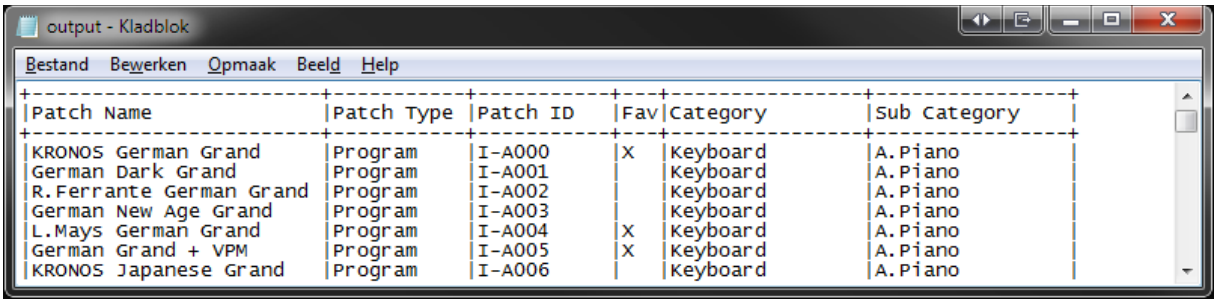


Figure 83: ASCII Table Output

7.6.2.9.2 (Plain) Text Output

This output format shows the same columns as the ASCII Table format except it does not generate the ASCII characters that creates the horizontal and vertical lines.

Below is an example of a fragment of a Patch List with Text output.

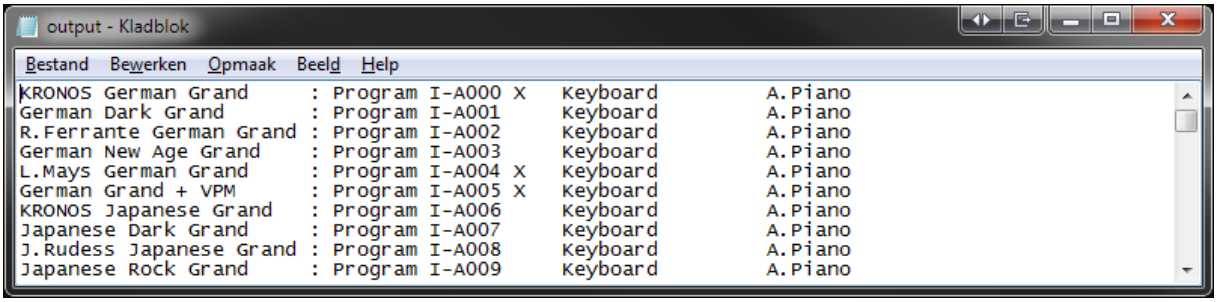


Figure 84: Text Output

7.6.2.9.3 CSV (Comma Separated Value) File Output

This output format creates a so called Comma Separated Value file, or in short CSV file.

Depending on the setting of your computer, these files are automatically loaded by a spreadsheet application, for example Microsoft Excel©. In MS Excel it will show up as text lines separated with commas and should be manually converted to separated columns. To do this, perform the following steps (example for MS Excel 2011 but other versions have similar capabilities):

1. Select the first column (A).
2. In the Data ribbon control tab, select the icon 'Text to Columns'. A dialog is shown.
3. Press the Next button.
4. In the next screen (step 2 of 3) select 'Comma'.
5. Press the Next button.
6. In the next screen (step 3 of 3) press 'Finish'.
7. Double click on each column transition to automatically change the width of each column or do it manually.
8. Now you can use all possible spread sheet function to further process the data.

[WARNING] Make sure you close the Excel file before generating a new CSV file with the same name. If not, the file that is open cannot be overwritten (generated) by PCG Tools and the following error will show up:

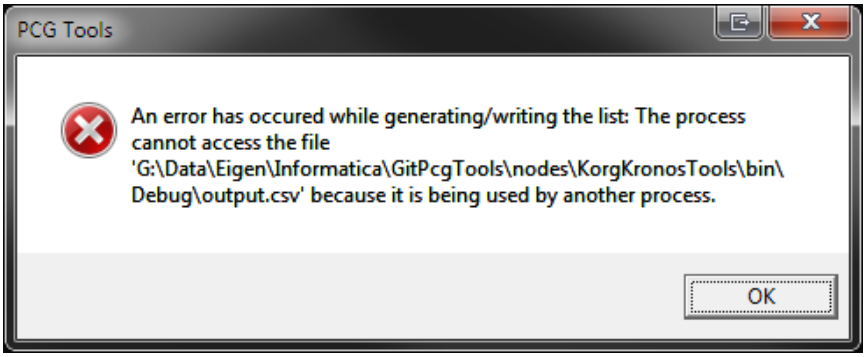


Figure 85: Error message after document in use.

The output will look like Figure 86.

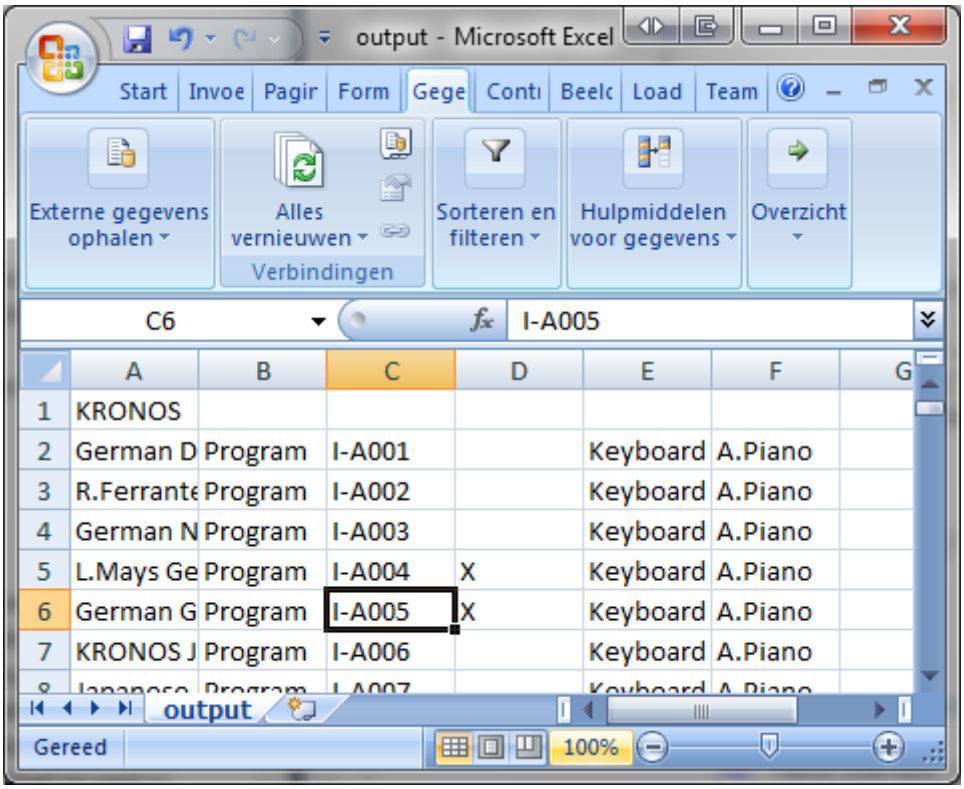


Figure 86: CSV (Comma Separated Values) Output in Microsoft Excel

In case there is no spread sheet application coupled to the .csv extension or you selected a .txt extension instead of a .csv extension, probably a text viewer/editor will be opened and an example fragment of the output will look like below.

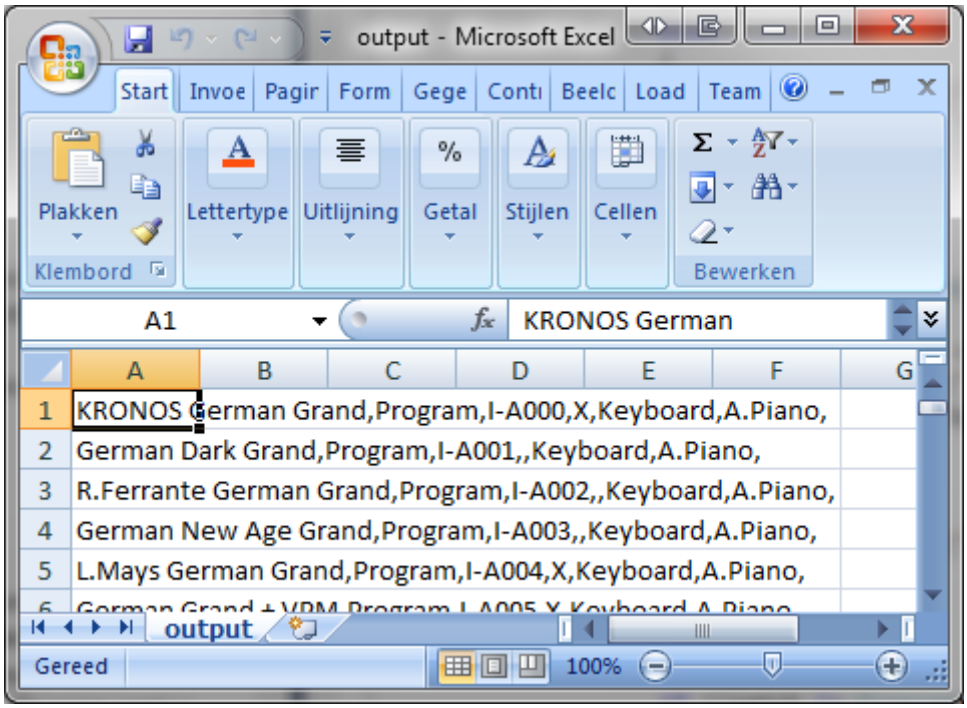


Figure 87: CSV (Comma Separated Values) Output as Text File

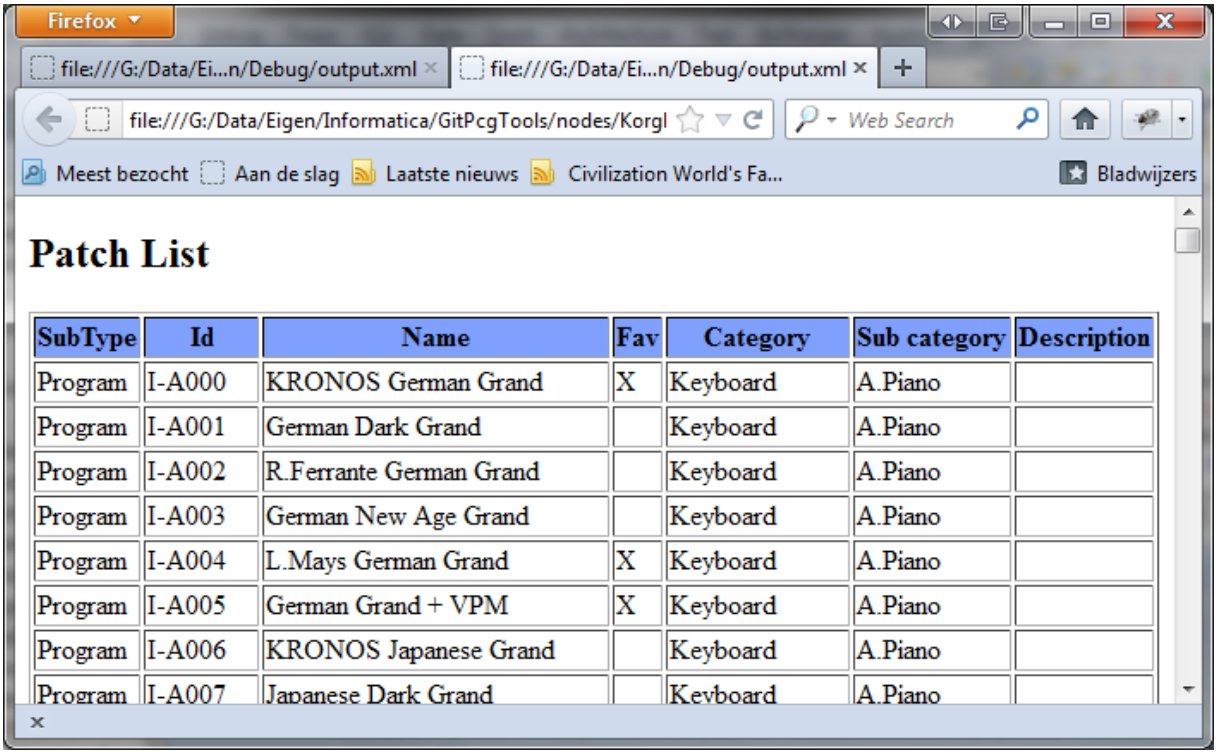
7.6.2.9.4 XML

This output format creates a so called E(X)tensible Markup Language, or XML file. XML files are widely used by internet application but also can serve as a structured data file for input by other applications.

Together with an XML file a so called E(X)tensible Stylesheet Language, or XSL file is created. This file contains HOW the XML file is shown.

When XML output is selected, normally the default browser will be opened to show the output, using the XML file as data content input and the XSL file as visualization of the data.

Below a fragment of the output for a patch list is shown.



Patch List

SubType	Id	Name	Fav	Category	Sub category	Description
Program	I-A000	KRONOS German Grand	X	Keyboard	A.Piano	
Program	I-A001	German Dark Grand		Keyboard	A.Piano	
Program	I-A002	R.Ferrante German Grand		Keyboard	A.Piano	
Program	I-A003	German New Age Grand		Keyboard	A.Piano	
Program	I-A004	L.Mays German Grand	X	Keyboard	A.Piano	
Program	I-A005	German Grand + VPM	X	Keyboard	A.Piano	
Program	I-A006	KRONOS Japanese Grand		Keyboard	A.Piano	
Program	I-A007	Japanese Dark Grand		Keyboard	A.Piano	

Figure 88: XML Output

[TIP]: If you want to use/see the source XML file, you can open the created files with a text editor, or depending on the browser, see the source (mostly via a right mouse button click on the generated page in the browsers). The XSL file should be browsed and opened in a text editor (manually).

Below a fragment of the XML source of a patch list is shown.

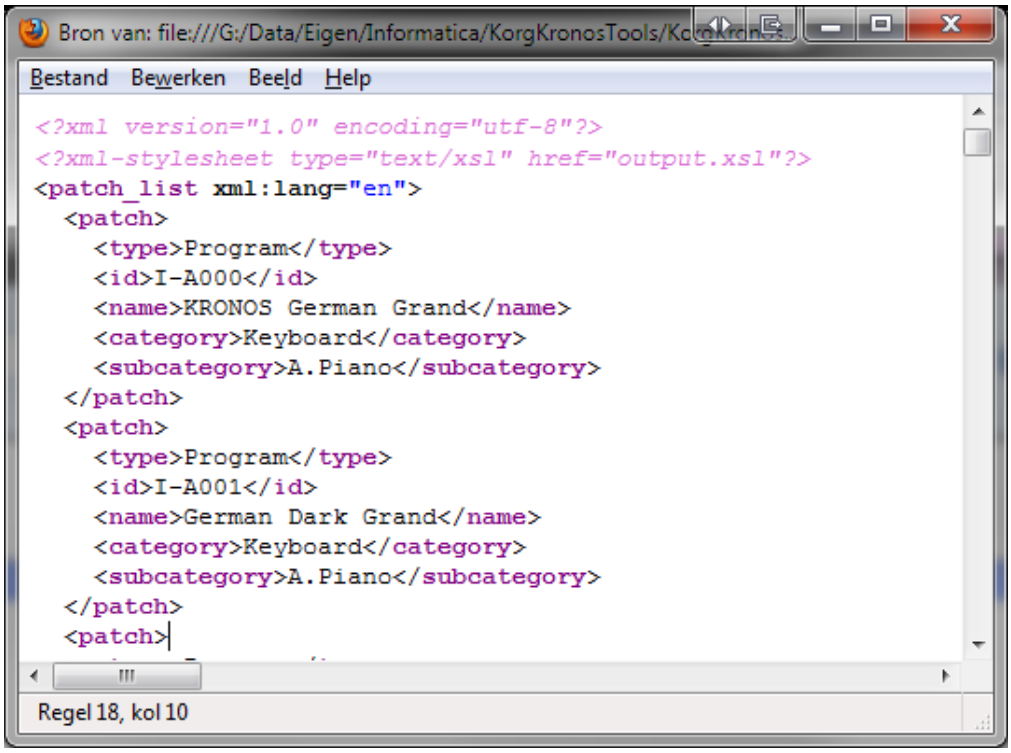


Figure 89: XML Source of a Patch List

Below a fragment of the accompanied XSL source of the patch list is shown.

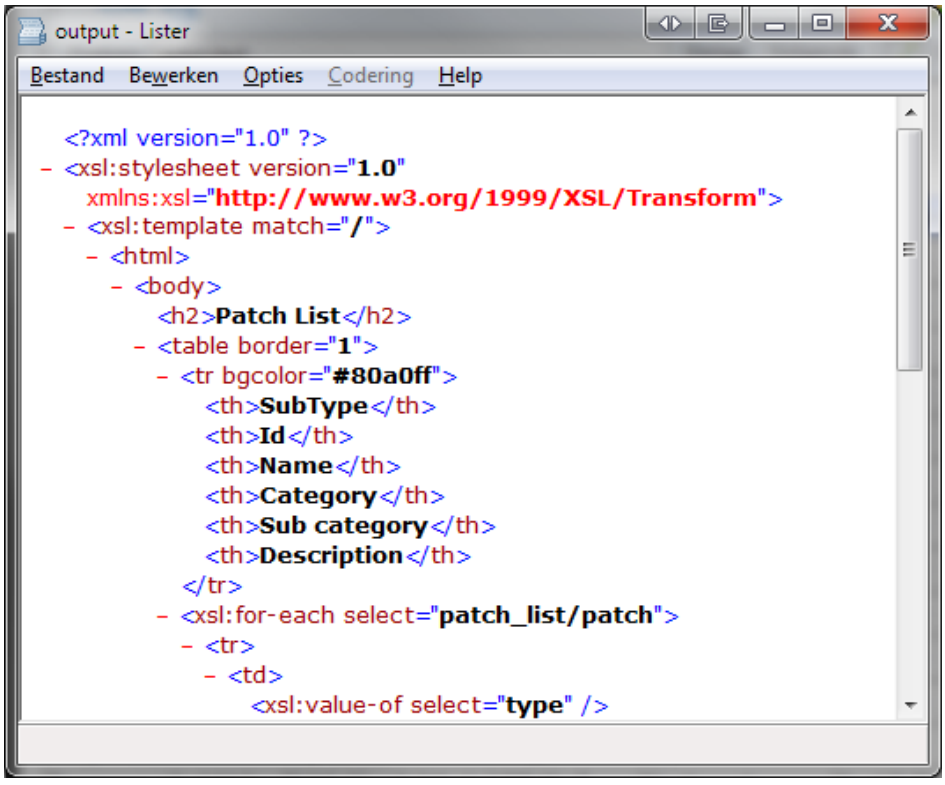


Figure 90: XSL Source of a Patch List

7.6.3 Command Line Arguments

PCG Tools can also be started up with command line arguments to create a list from the set list generator.

To execute this, start cmd.exe, and set all parameters needed. Without arguments or with wrong arguments a help screen will be shown.

Example of a patch list command:

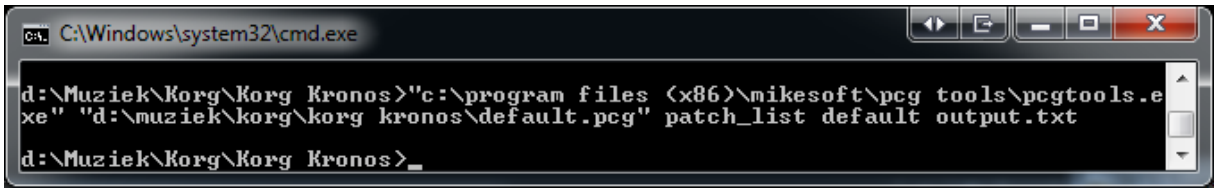


Figure 91: Patch List command

And the output will be stored in output.txt, see the next screenshot for a fragment:

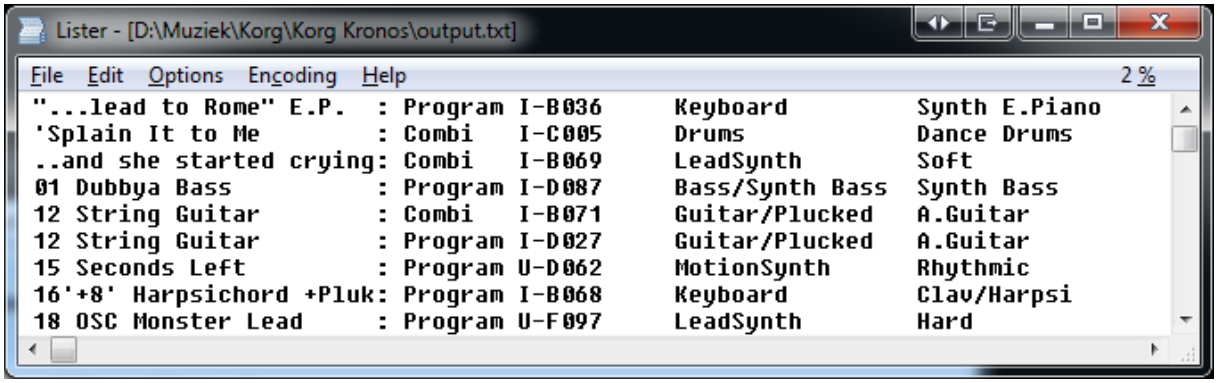
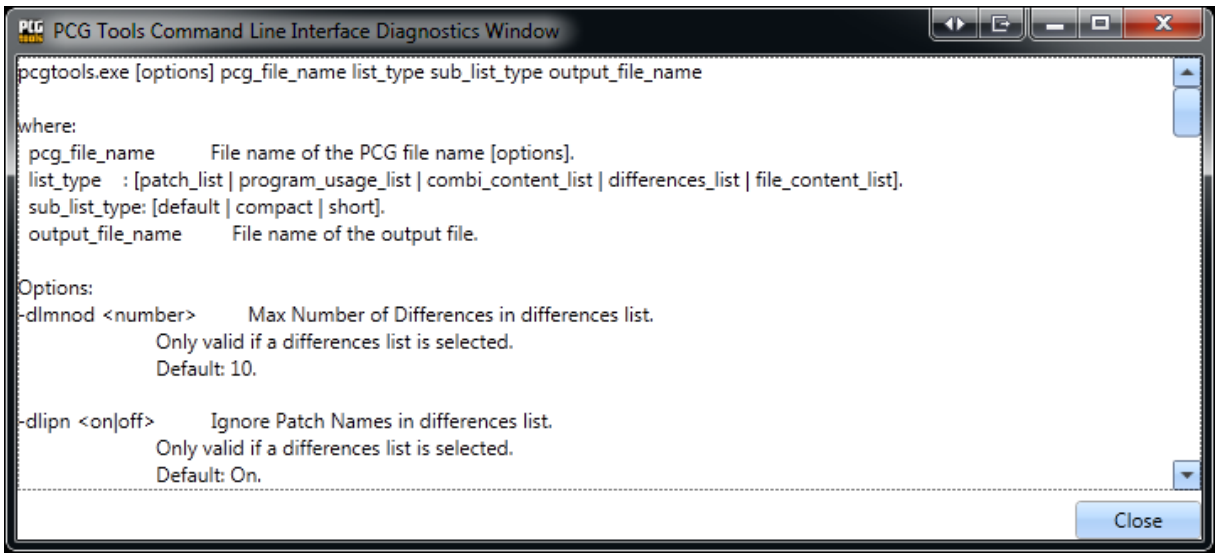
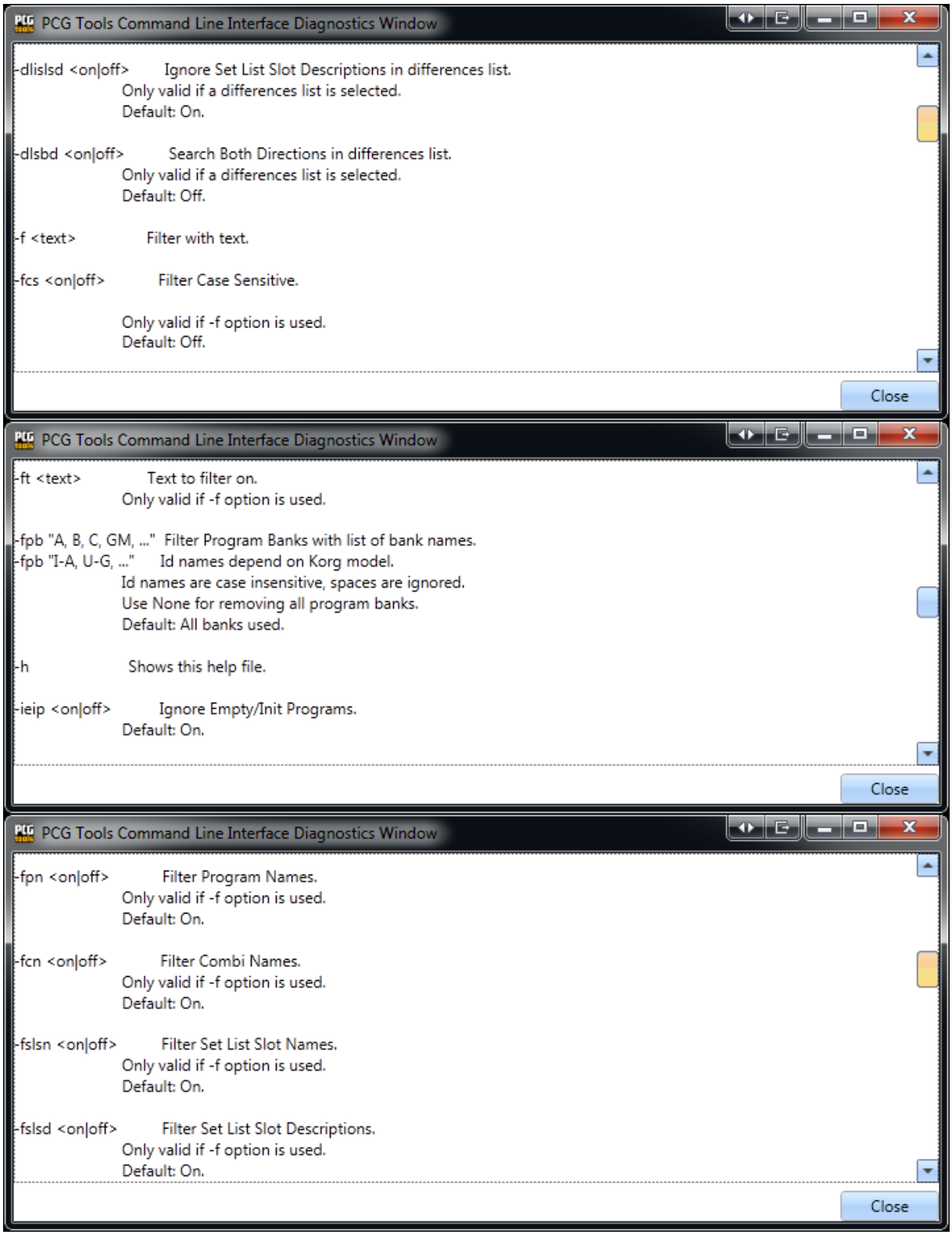


Figure 92: Fragment of a patch list

Below are all possible arguments:




PCG Tools Command Line Interface Diagnostics Window
-dlislsd <on|off> Ignore Set List Slot Descriptions in differences list.
Only valid if a differences list is selected.
Default: On.
-dlsbd <on|off> Search Both Directions in differences list.
Only valid if a differences list is selected.
Default: Off.
-f <text> Filter with text.
-fcs <on|off> Filter Case Sensitive.
Only valid if -f option is used.
Default: Off.
Close
PCG Tools Command Line Interface Diagnostics Window
-ft <text> Text to filter on.
Only valid if -f option is used.
-fpb "A, B, C, GM, ..." Filter Program Banks with list of bank names.
-fpb "I-A, U-G, ..." Id names depend on Korg model.
Id names are case insensitive, spaces are ignored.
Use None for removing all program banks.
Default: All banks used.
-h Shows this help file.
-ieip <on|off> Ignore Empty/Init Programs.
Default: On.
Close
PCG Tools Command Line Interface Diagnostics Window
-fpn <on|off> Filter Program Names.
Only valid if -f option is used.
Default: On.
-fcn <on|off> Filter Combi Names.
Only valid if -f option is used.
Default: On.
-fslsn <on|off> Filter Set List Slot Names.
Only valid if -f option is used.
Default: On.
-fslsd <on|off> Filter Set List Slot Descriptions.
Only valid if -f option is used.
Default: On.
Close

PCG Tools Command Line Interface Diagnostics Window
-ifp <on|off> Ignore First Program.
Default: Off.
-fcb "A, B, C, ..." Filter Combi Banks with list of bank names.
-fcb "I-A, U-G, ..." Id names depend on Korg model.
Use None for removing all combi banks.
Default: All banks used
-ieic <on|off> Ignore Empty/Init Combis.
Default: On.
-imot <on|off> Ignore Muted/Off Timbres.
Default: On.
Close
PCG Tools Command Line Interface Diagnostics Window
-fsl <on|off> Filter Set Lists.
Default: On.
-ieis <on|off> Ignore Empty/Init Set List Slots.
Default: On.
-fslrf <int> Filter Set Lists Range From <lower set list>.
Only valid if -fsl option is used.
Default: 0.
-fslrt <int> Filter Set Lists Range From <upper set list>.
Only valid if -fsl option is used.
Default: 127.
-fd <on|off> Filter Drum Kits.
Default: On.
Close
PCG Tools Command Line Interface Diagnostics Window
-ieid <on|off> Ignore Empty/Init Drum Kits.
Default: On.
-fw <on|off> Filter Wave Sequences.
Default: On.
-ieiw <on|off> Ignore Empty/Init Wave Sequences.
Default: On.
-s (type_bank_index|alphabetical
Sorting method:
tbi : SubType/Id/Index
alpha: Alphabetical
Default: alpha
Close

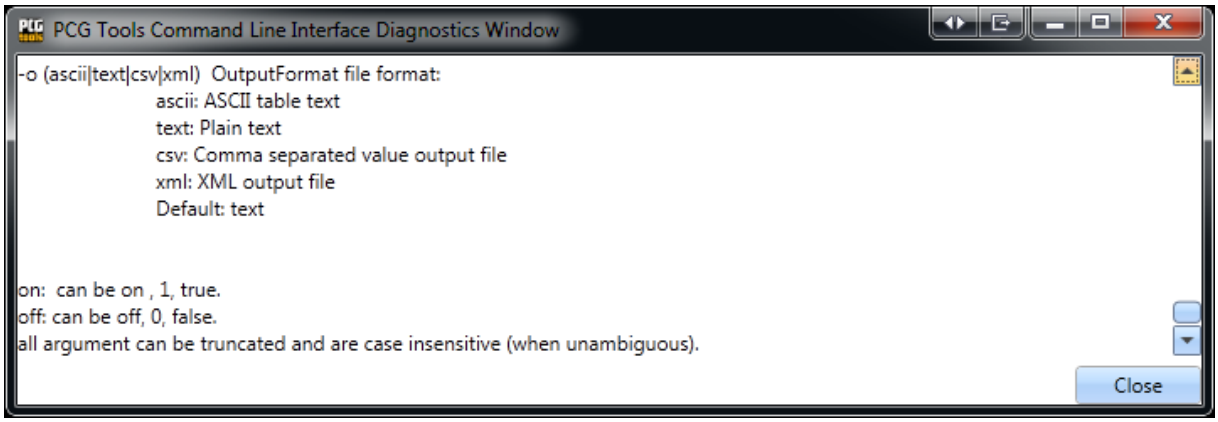


Figure 93: Command Line Arguments

7.7 Additional PCG File Features

In this paragraph additional features are explained. Currently there is one such feature: to export a PCG file to a Cubase® instrument definition file.

7.7.1 Generating a Cubase Instrument Definition File

This command can be used to generate an instrument definition file for Cubase.

The following way should be used to select this command:

- Select the Cubase sub menu item from the 'Export for Sequencer' menu item in the File menu.

Cubase is a sequencer application that can use patch list for easy navigating through the patches from within the application. For this functionality, Cubase uses instrument definition files.

This file can be copy/pasted to the Cubase directory after manually adapting if needed (depending on the Cubase version). However, manual adaptation is outside the scope of PCG Tools. Please refer to your Cubase documentation for the content of an instrument definition file.

A fragment of the output is shown in the figure below.

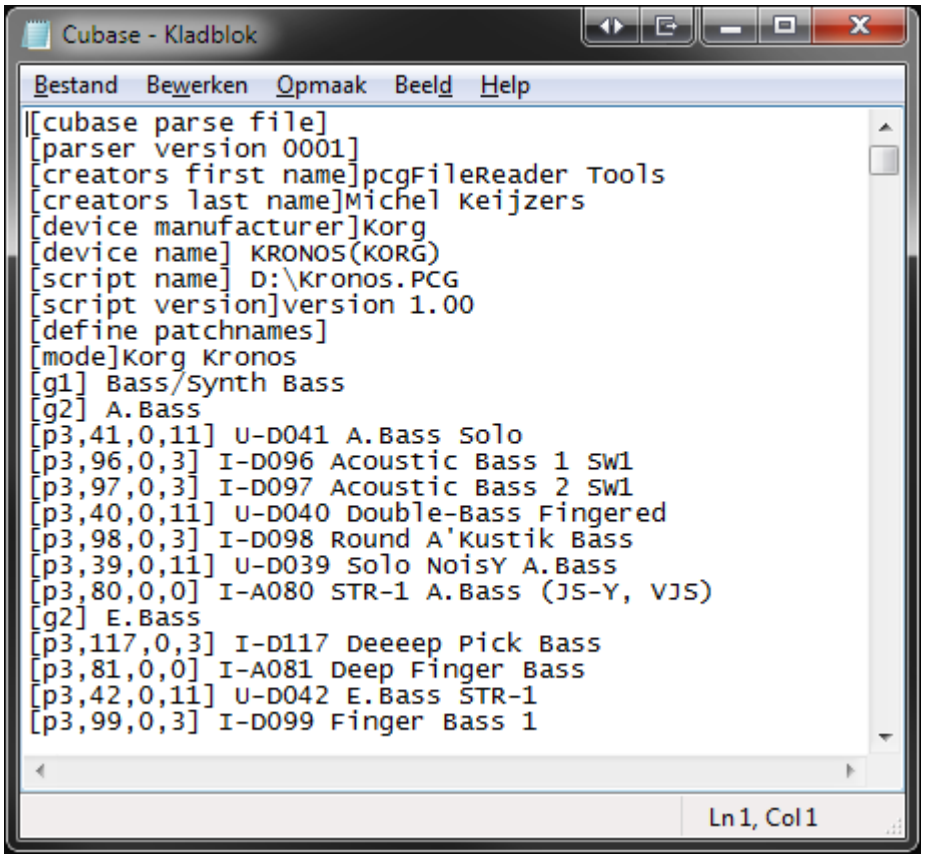


Figure 94: Cubase Instrument Definition File

8 Using SNG (Song) Files

This file type contains songs created by the sequencer of your workstation. One such SNG file can contain multiple songs.

A song file contains a lot of information and only a very small portion is analyzed with PCG Tools, namely the songs contained in the files and the samples being used by those songs.

A song file can be opened by the regular Open command (see Paragraph 6.4.1). When the dialog is opened, select in the right bottom corner the correct type: SNG Files (*.sng) and open the song you want to be shown.

Multiple song files can be opened and even song files from different workstation models.

The window contains two tabs, one for songs information and one for samples information. These tabs are explained in more detailed in the following paragraphs.

The status bar shows the workstation model, the type of file (SNG), the number of songs in the loaded SNG file and the number of samples used in the loaded SNG file.

8.1 Songs Tab

This tab shows the indices and the names of the songs contained in the SNG file and this tab will be opened by default. Below is an example of this tab.

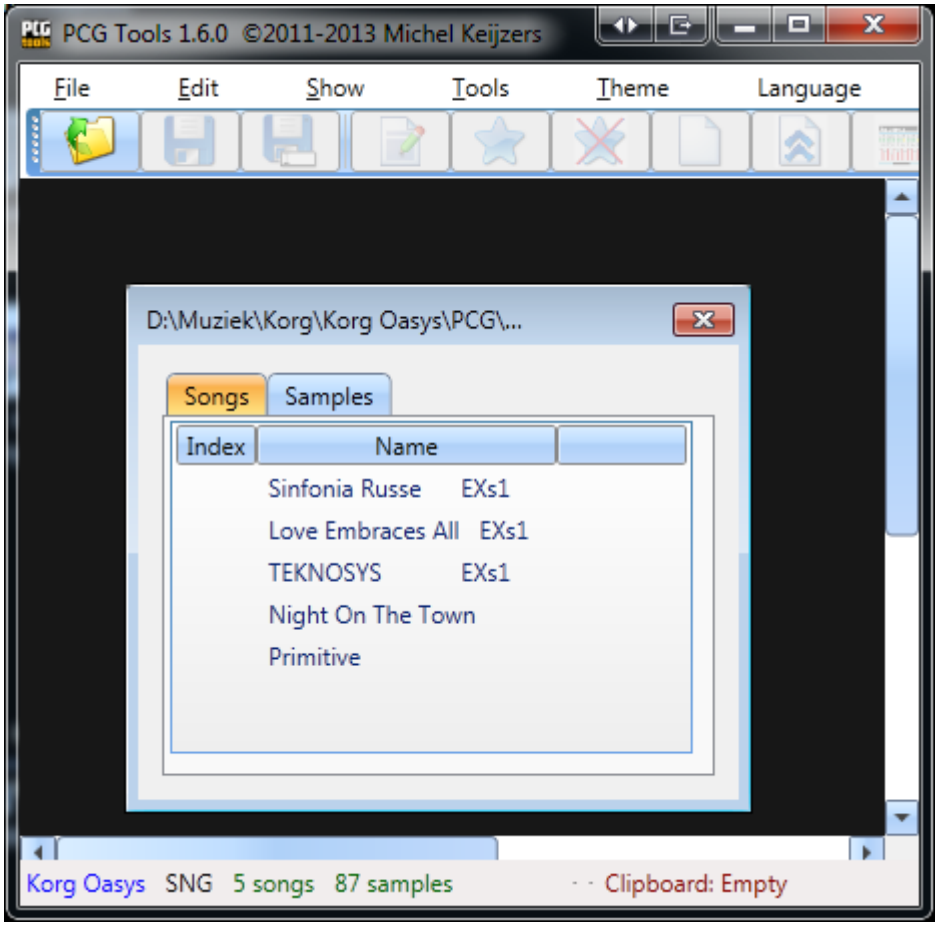


Figure 95: Songs Tab

8.2 Samples Tab

This tab shows the samples that are used by all songs in the SNG file. Per sample, the index, name and (Sample) file name is shown. See below for an example.

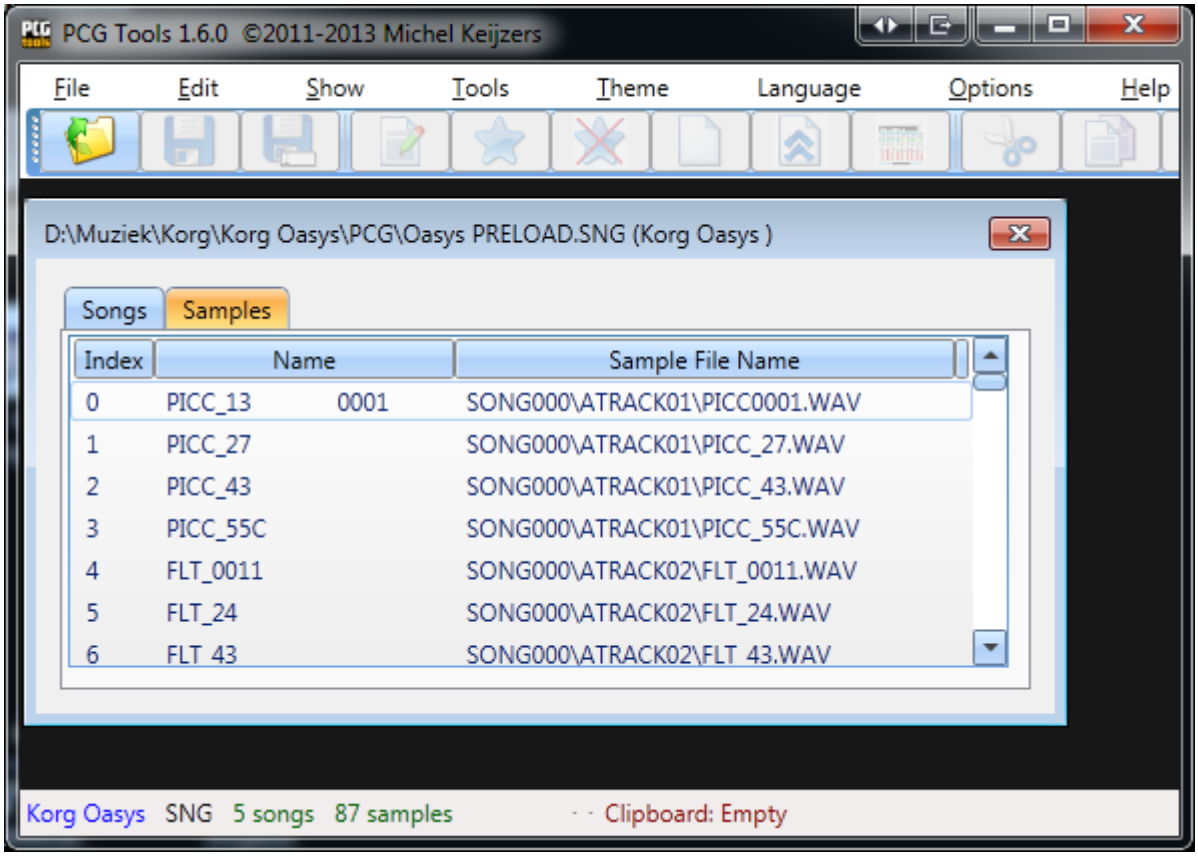


Figure 96: Samples Tab

9 Q & A and Trouble-Shooting

In the table below questions and answers and trouble-shooting information is supplied.

Question/Problem	Answer/Solution
SETUP	
I cannot unzip the setup file.	The zip file is password protected and the password is mailed through the PCG Tools newsletter.
Why does installation take so long the first time?	This application uses an extensive Microsoft library, called Microsoft .NET Framework 4. Sometimes it is already installed on your computer, sometimes not. If not, it will be automatically installed.
I get an installation error while downloading the .NET Framework.	Probably the needed Microsoft .NET Framework 4 library is not installed correctly previous time. It will be automatically installed (the first time) when you install the application. For this an internet connection is needed and authorization (administrator rights possibly) to install this library. When you still get an error you can download it manually from http://www.microsoft.com/download/en/details.aspx?id=17718. If you still get an error try uninstalling the library and reinstall it.
PERFORMANCE	
Loading many PCG files make my computer slow.	Some workstation, like the Korg Kronos creates full PCG files of 42 MB. When loading PCG files into PCG Tools some overhead will be added so depending on the available RAM memory in your system, the Windows OS might use disk swapping which can decrease the performance of PCG Tools dramatically. Close unneeded PCG files to release more memory.

Table 28: Q&A and Trouble Shooting

10 Keyboard Usage & Shortcut Keys

By default, the Windows operating system has a lot of automatic keyboard shortcuts and special predefined usages for selections and commands. Besides that, PCG Tools has some additional keyboard shortcuts.

Most shortcuts need a special key, like the Control (Ctrl) or Alt key together with another key. For this a special notation is used, like e.g. Ctrl g is used which means: press AND HOLD the Control key, press the g key and release the g key without releasing the control key before releasing the g key.

10.1 Keyboard Command Selection

When pressing the left Alt key, all file menus, menu options and most screen controls show an underlined character. When the left Alt key is pressed together with that underlined character that control is focused. Pressing the Enter key (or space key for buttons), will activate/change the selected control.

If there are multiple controls with the same underlined character, PCG Tools focuses to the next control with the same underlined character, even if it is on another opened PCG file (so you can also use this feature for jumping quickly to another PCG window by keyboard).

To execute the focused control, press the Enter key.

10.2 Generic Commands Shortcut Keys

Key	Command
Ctrl F4	Closes the current selected window (and sub windows).
Alt F4	Exits the application.
Alt Tab	Go to the next application or in some cases another PCG Window, like the List Generator or the output of the list generator.
(Shift) Alt Tab	Go the previous application.
Left Alt Tab	Focus on the menu (you can use the cursor keys to navigate to the correct menu item and press Enter to activate the focused menu item).
Ctrl Tab	Go to the next control.
Shift Ctrl Tab	Go to the previous control.
Alt + Space	Focus on the window menu.

Table 29: Generic Commands Shortcut Keys

This list is not complete. For a complete list, see http://support.microsoft.com/kb/301583.

Not all commands are usable in PCG Tools, but most keys that are related to PCG Tools are.

10.3 Main Menu Shortcut Keys

The short cuts shown below are active only when the menu is active.

Key	Command
F10	Go to/from the Main menu
Ctrl O	File Open
Ctrl S	File Save
Ctrl Shift S	File Save as

Table 30: Main Menu Shortcut Keys

10.4 Keyboard Shortcut Keys and Mouse handling

In an opened PCG file two lists are displayed: the Banks (or set lists) list on the left side and the Patch list containing programs, combinations or set list slots from the bank or list selected in the Banks Listview on the right side.

One of the lists has a thick gray line around it, which shows the active list. Commands below the lists are executed for the selected items in the active list view only.

[EXAMPLE]: When the Banks Listview is active and five banks are selected, and Left Alt + c is pressed to clear them, all patches within those five selected banks will be cleared. If the Patches Listview (right list view) would be active, then only the selected patches in the patch list will be cleared.

Some commands are available depending on the active list (Banks Listview or Patches Listview).

You can use multiple selections on both lists by using the Shift or Control key together with other keys or with the mouse. The shift key can be used to select a continuous range, the control key can be used to deselect or select items in a list without affecting other selections.

The table below shows the short cut keys possible on either list.

Key	Command
Cursor Up	Move the cursor one item up.
Cursor Down	Move the cursor one item down.
Page Up	Move the cursor one page up.
Page Down	Move the cursor one page down.
Home	Move the cursor to the first item.
Home	Move the cursor to the first item.
End	Move the cursor to the last item.
Shift	Keep the Shift key pressed to select a consecutive range (can be used in conjunction with the Control key).*
Control	Keep the Control key pressed to select multiple items (can be used in conjunction with the Shift key).*
Ctrl Numeric 8 (Up)	Moves the selected patch one location up.
Ctrl Numeric 2 (Down)	Moves the selected patch one location down.
Left Mouse Button Double Click	Opens the Edit dialog for the selected patch.
Control x	Cuts the selected banks or patches (for pasting later)
Control c	Copies the selected banks or patches (for pasting later)
Control v	Pastes the selected banks or patches (only allowed type).

* These keys cannot be used to select multiple items by using the keyboard only, but only by concurrently using the mouse.

Table 31: Keyboard Shortcut Keys and Mouse Handling

10.5 PCG Window Shortcut Keys

The table below shows the short cuts which can be used inside a PCG Window.

Key	Command
Ctrl C	Copy the selected items to the clip board
Ctrl P	Pasts the selected items possible to paste in the selected items.

Table 32: PCG Window Shortcut Keys

10.6 SNG Window

For the Song window, there are no short cut keys available.

11 Installation of Core FTP LE

11.1 Introduction

The Korg Kronos from OS version 2.0 and the Korg Kronos X can make use of an Ethernet connection for transferring files. This is the ideal way of using PCG Tools because you do not need to use an USB stick or memory card for transferring the PCG file(s) from your workstation to your computer and vice versa.

Below are the steps needed to set up such communication.

11.2 Setup the FTP connection on the Kronos site.

First the Kronos (X) needs to have some values being entered for making an FTP connection possible. Perform the following steps:

- Press the 'Global' button on your Kronos (X).
- Go to the Basic tab.
- Go to the Network tab.
- Press the Configure button.
- Enter a host name. This name can be anything but is needed later in an FTP application as identification for the Korg Kronos (X).
- Set the Address Method to DHCP. This means that the Korg Kronos (X) automatically creates a number that uniquely identifies the machine.
- Press the 'OK' button.
- Select a user name (this can be anything).
- Select a password (this can be anything). Remember the password well for later usage.

11.3 Install Core FTP LE

Perform the following steps:

- First browse to http://www.coreftp.com/download.html. Core FTP (LE) is a free software application for managing FTP connections. There are also other (free) applications for FTP but I just used this application as example.
- Download the latest free version for your operating system (32 or 64 bit) and run it.
- You will see the following screen:

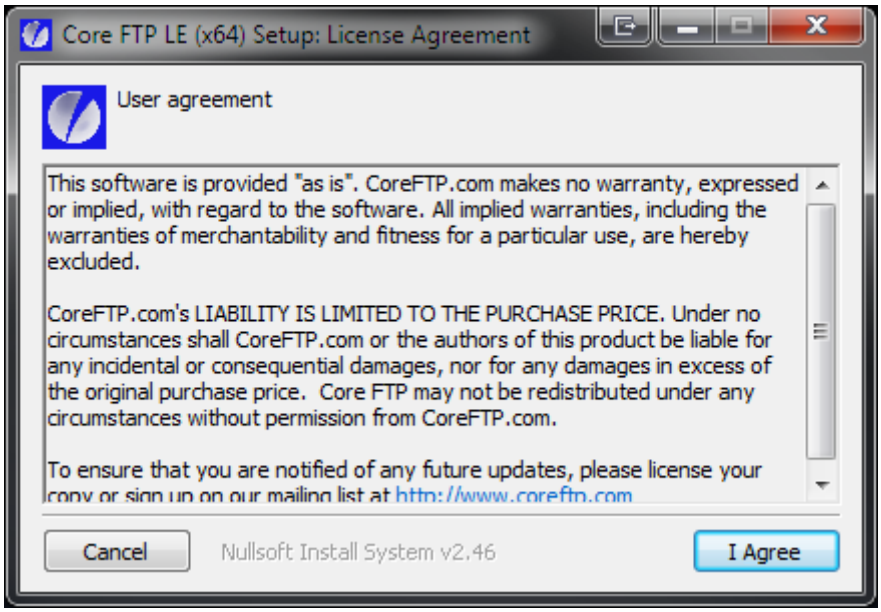


Figure 97: Core FTP Installation screen shot 1

- Press the button 'I Agree'.
- You will see the following screen:

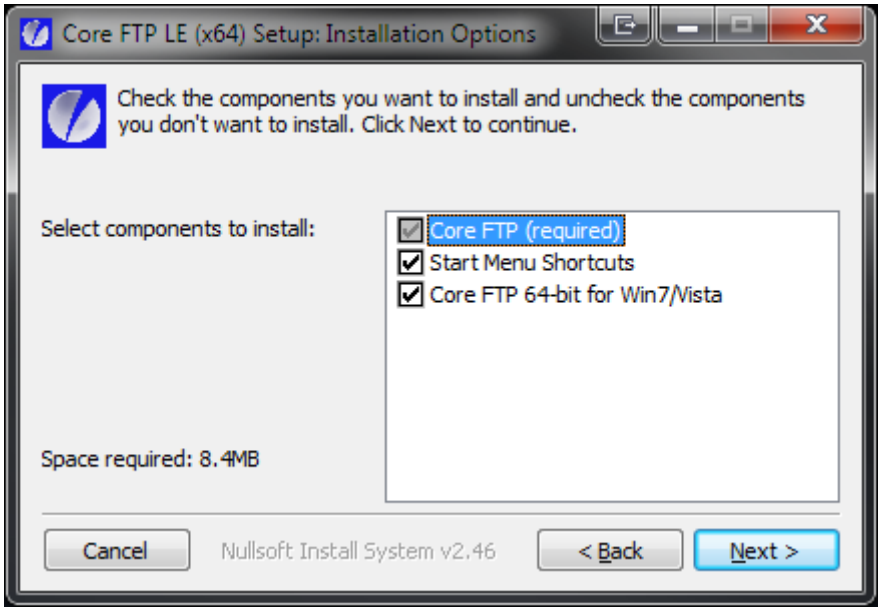


Figure 98: Core FTP Installation screen shot 2

- Press the 'Next' button.
- You will see the following screen:

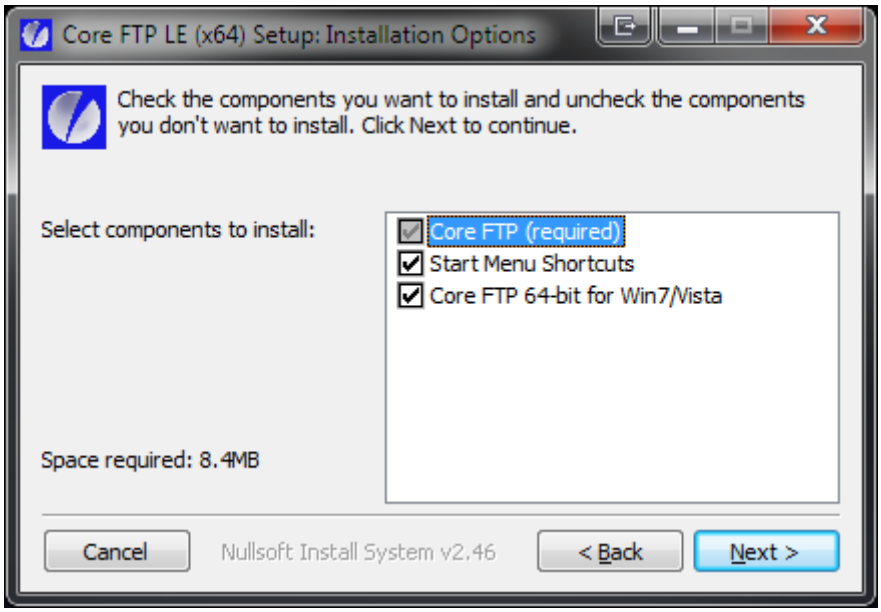


Figure 99Core FTP Installation screen shot 3

- Press the 'Next' button.
- You will see the following screen after the installation has been completed successfully:

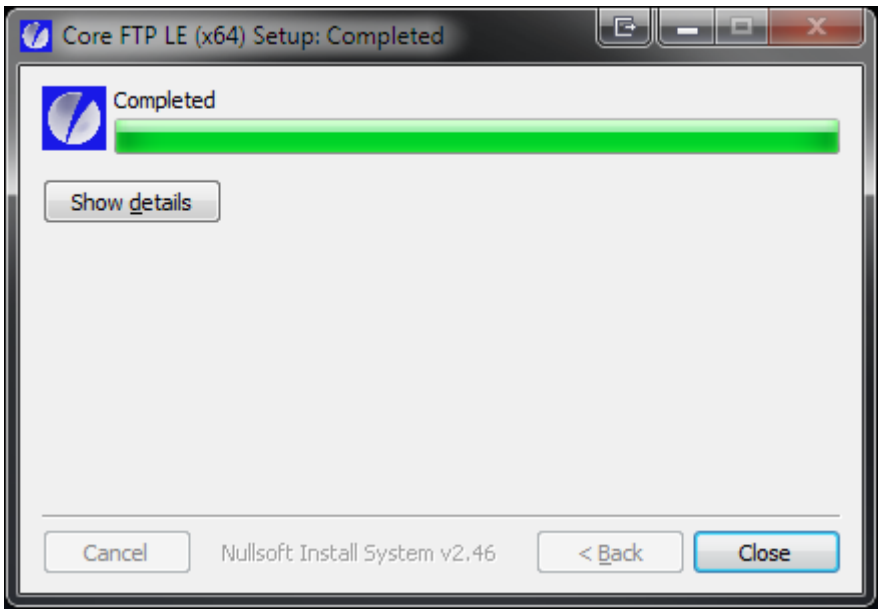


Figure 100: Core FTP Installation screen shot 4

- Press the 'Close' button.

11.4 Set up the FTP connection

- Make sure that both the computer and the Korg Kronos (X) are connected to the same router/switch.
- Start up Core FTP LE.
- You will see the Site manager window. If not, select it from the Sites menu, sub menu Site Manager.

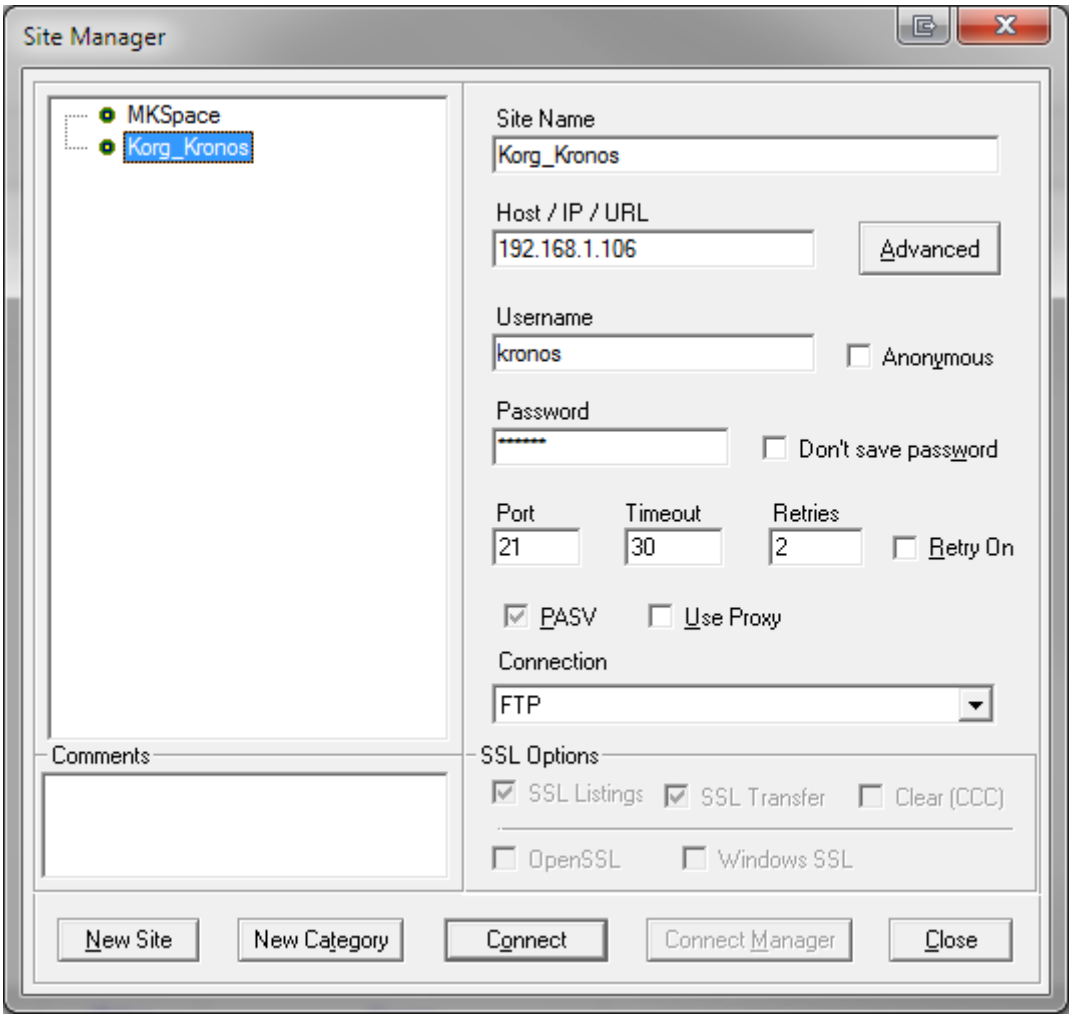


Figure 101: FTP Site Manager

- Press the 'New Site' button and fill in the items according to the table below. All other values can be left to default.

Item	Value	Remarks
Site Name	e.g. Korg Kronos (X)	You can use any name here.
Host / IP/ URL	The host name you entered on the Korg Kronos (X)	
Username	The user name you entered on the Korg Kronos (X)	
Password	The password you entered on the Korg Kronos (X)	

Table 33: New (FTP) Site

- Press the 'Connect' button.
- You will see a screen similar as below.

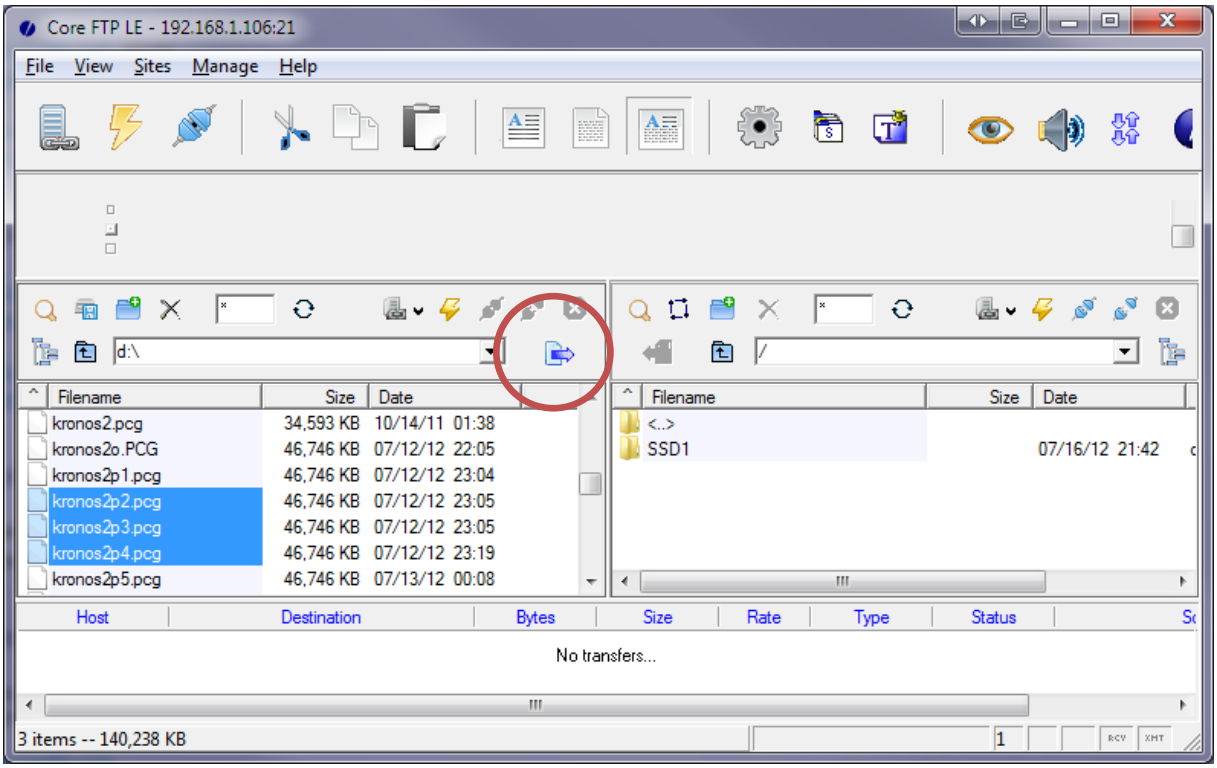


Figure 102: FTP Connection

On the left site is a folder on your computer; you can change this to any location. On the right side the Korg Kronos (X) SSD contents are shown. With the left and right arrow button you can copy files from the computer to the Korg Kronos (X) or vice versa. In the example above you can see the left arrow in the red circle). The arrow will only be enabled if one or more files are selected.

Always make a backup file before you are going to change a PCG file with PCG Tools.

After copying one or more PCG files from the Korg Kronos (X) to your computer, you can use PCG Tools to load it. When finished with PCG Tools (or in between if you like), save the file and copy the file with FTP Core LE to the Korg Kronos (X) and load it.

Note that sample files are hidden and will not be shown.

12 Application Version History

Version	Date	Type	Description
0.1.1.1	01-Jul-2011	Initial:	Initial version.
0.1.2.49	30-Jul-2011	Support:	Support for any kind of Korg Kronos PCG files.
		Support:	Support for any kind of Korg Oasys PCG files.
		Improv.:	Check for unsupported PCG file.
		Improv.:	In the list generation window, empty/init banks or setlists are disabled.
		Bug Fix:	In the program usage list, muted timbres were taken into account.
		Bug Fix:	In the file selection dialog, the 'All' files options did not work.
0.1.3.53	08-Aug-2011	Feature:	Combi Content List.
		Support:	Support for Korg Triton Extreme PCG files.
		Improv:	Added option to ignore first program and ignore muted or off timbres.
		Improv:	Added option for enabling filtering text in programs, combis, set list slot names.
		Bug Fix:	Problem fixed with partial Korg Kronos/Oasys files.
0.1.4.54	10-Aug-2011	Support:	Support for Korg M50 PCG files.
		Support:	Support for Korg M3 PCG files.
		Improv:	Wait cursor while generating lists.
		Improv:	(Much) Faster Combi Content List generation.
0.1.5.62	14-Aug-2011	Feature:	All lists can be generated in XML format.
		Improv:	Output file can be set (and opened by connected application)
		Improv:	Screen layout changed.
		Bug Fix:	CSV File format improved (can handle commas in names of patches)
		Bug Fix:	If the PCG file cannot be read, the app does not crash but gives a message box.
0.1.6.64	18-Aug-2011	Feature:	Differences List.
		Improv:	Changed parameters in command line interface.
0.2.0.75	3-Sep-2011	Feature:	Show banks with programs, combis and set list slots on GUI.
		Feature:	Ability to change names of Programs, Combis and Set List Slots.
		Feature:	Ability to change descriptions of Set List Slots.
		Improv:	CHanged text "Kronos PCG File Name" to "PCG File Name.
		Bug Fix:	Default settings/enabling of UI checkboxes for filtering on text.
0.2.0.76	4-Sep-2011	Bug Fix:	Crash fixed when importing Oasys PCG files and pressing generate lists.
0.2.1.78	10-Sep-2011	Feature:	Moving programs, combis, set list slots up and down with automatic reference updating.
		Support:	Support for Korg Triton (Classic), Triton Rack, Triton Le, Triton Le88, Triton Studio, Triton TR 61/76/88.
		Support:	Support for Korg Karma.
		Bug Fix:	Fixed reading of Korg Triton PCGs with MOSS programs.
0.2.2.80	12-Sep-2011	Feature:	Select multiple programs, combis, set list slots for moving up/down.
		Improv:	Added menu and moved buttons to menu.
		Improv:	Added About window.
		Improv:	Show set lists that have changed names or with non default set list slots (-> I-A000)
		Improv:	Changed warning text for Differences List.
		Bug Fix:	Fixed exception in Differences list with 'To' option in set lists filtering.
		Bug Fix:	Fixed Initial Programs radio button selected when only set lists contained in PCG.
0.2.3.118	24-Sep-2011	Feature:	Open multiple PCG files at the same time.
		Feature:	Added Status bar showing the amount of programs, combis and set list slots and banks in the PCG.
		Feature:	Added Status bar field showing the Korg model type of the loaded PCG.
		Feature:	Added Revert to Saved menu option (undo changes).
		Improv:	Replaced Combo box for bank/set list selection by list view.
		Improv:	Moved Label with loaded PCG file name flag to the title bar.
		Improv:	Added dirty flag (meaning PCG file has changed) as * to the title bar.
		Improv:	Added warning when closing the app or close a changed PCG.
		Improv:	Added Move Up and Move Down to Actions menu.
		Improv:	Changed the default list generator sort order from alphabetical to type/bank/index.
0.2.4.120	6-Oct-2011	Feature:	Copy programs inside a PCG or to another PCG.
		Feature:	Copy combis inside a PCG or to another PCG while copying the used programs together.
		Feature:	Copy set list slots inside a PCG or to another PCG while copying the used programs and combis together.
		Improv:	Commands in windows depend on selection of bank/patch selection list view.
		Improv:	Added column in banks for content type (Program bank shows Sampled/Modeled programs).
		Improv:	Added column in patches for Description (showing set list slot descriptions).

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                        Improv:  Double clicking a single patch shows the Edit window.
                        Improv:  The short cut for the edit button is Alt-E (and had to remove the
                                 Edit menu short cut).
                        Improv:  All banks/set lists are shown, also empty ones (useful for
                                 copy/paste functionality).
                        Bug Fix: Prevented some crashes related to the menu.
                        Bug Fix: Removed maximizing a PCG window when double clicking on the title
                                 bar.
                        Bug Fix: Prevented crash when loading a PCG without program, combi and set
                                 list slot data.
                        Bug Fix: Prevented crash when closing changed file after message box.
                        Bug Fix: Owner set correctly for message boxes; added icon for set list
                                 generator.
0.2.5.121  12-Oct-2011  Feature: Showing categories and sub categories for patches in GUI.
                        Feature: Clear selected program(s) or bank(s).
                        Improv:  Creation of XSL files for output generation in XML.
                        Improv:  Removed Set Lists radio button if not supported by model.
                        Improv:  Removed 'Content Type' column and 'Description' column from list
                                 views if not filled.
                        Bug Fix: Prevented crash for program usage/combi content list generator for
                                 Karma PCGs.
                        Bug Fix: Removed possibility to copy programs/combis between a Korg Triton
                                 PCG and Korg Karma PCG.
                        Bug Fix: Edit window has an icon now to prevent being unnoticed when
                                 unfocused.
0.2.5.121? 14-Oct-2011  Bug Fix: Fixed problem with saving PCG files.
0.2.5.123  16-Oct-2011  Bug Fix: Fixed category crash for Korg Triton (Karma) models.
0.2.6.125   2-Nov-2011  Feature: Support for (U-)AA- to (U-)GG banks, added with OS update 1.5
                                 (Kronos only and UNTESTED!).
                        Improv:  Patch List shows categories/sub categories (both Text, CSV and XML
                                 file format).
                        Improv:  Patch List can be sorted by category.
                        Improv:  Patch List output for CSV and XML slightly improved (and a bit
                                 changed).
                        Improv:  Possibility to use new line characters in a set list slot
                                 description (Kronos only).
                        Improv:  Number of characters for patch names/descriptions is shown in the
                                 edit screen.
                        Bug Fix: Prevented crash when copying set lists slots using combis from U-
                                 A..U-G; Kronos only.
                        Bug Fix: Prevented strange symbols for (sub) categories when loading PCGs
                                 without Global chunk.
0.2.7.126  21-Nov-2011  Feature: Create instrument definition files for Cubase.
                        Improv:  Create all generatable lists in ASCII table format.
                        Improv:  Generate a new kind of Combi Content list (showing timbres by
                                 index)
                        Improv:  Set list slots can be cleared.
                        Improv:  Copy/Paste mode has a Recall button to recall the copied copy
                                 clipboard.
                        Improv:  Added link to KronosHaven.com in the about box (new news site/forum
                                 for Korg Kronos).
                        Improv:  Added link to Robert Rosen's site (keyboardist/repair/patches).
                        Bug Fix: Enables the Copy and other buttons and disables Exit button when
                                 clipboard is empty.
                        Bug Fix: Removed unused toolbar icon (arrow down).
0.2.8.127  27-Nov-2011  Feature: Show favorite column for program/combis in PCG Window (Kronos
                                 only).
                        Feature: Mark/Unmark programs/combis as favorite (in edit screen, menu and
                                 toolbar, Kronos only).
                        Feature: Change categories and sub categories (depending on model) in edit
                                 screen.
                        Improv:  Use favorite setting as filter for generating all type of lists
                                 (Kronos only).
0.2.9.129  17-Dec-2011  Feature: Support for user banks U-AA to U-GG (Kronos only).
                        Improv:  Clearing a program or combi also removes the favorite setting
                                 (Kronos only).
                        Improv:  Added OS version in status bar (for Kronos OS1.5 only).
                        Improv:  Added external link window (removed from about window).
                        Improv:  Added more external links (Kid Nepro, Dreamland Studio and Onksor).
                        Improv:  Added descriptional text with short combi content lists.
                        Improv:  Added copyright symbol in title and copyright mark in each source
                                 file.
                        Improv:  Show About box and External Links window in taskbar, for easier
                                 nvavigating if unfocussed.
                        Bug Fix: Trinity MOSS/Z1 files froze the app, changed into a more clear
                                 error message.
                        Bug Fix: Patch list ASCII table substitute new lines for \ characters
                                 preventing disrupted columns.
                        Special: Christmass ball icon (will be removed in a next update).
0.3.0.137  30-Dec-2011  Feature: Long combi content list generation with important parameters of the
                                 used timbres.
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                        Feature: Compact patches, i.e. move the empty patches downwards.
                        Feature: Keyboard shortcut key html file added in Help menu.
                        Improv:  The dirty flag now works correct (before it sometimes was shown
                                 without a real change).
                        Improv:  When no patches are pasted, a message box is shown with possible
                                 reasons.
                        Improv:  Added and changed some keyboard shortcuts.
                        Bug Fix: Prevent a crash for trying to edit a program/combi from a PCG file
                                 without Global chunk.
                        Bug Fix: The status bar does not show the model including " OS" if no OS
                                 version is displayed.
                        Bug Fix: Pasting of multiple selected patches did not work (correctly).
                        Bug Fix: Cleaned up footer line for compact combi content list.
                        Bug Fix: Prevent crash for OS1.5 combi content list generation using GM
                                 programs.
                        Special: Changed the Christmass ball into a Fireworks symbol.
 0.4.0.139   5-Jan-2012 Feature: Added a donation button (please consider if you think this app is
                                 useful).
                        Feature: Timbres list for managing timbres inside a combi.
                        Feature: Timbres can be moved up and down inside a combi (without affecting
                                 sound).
                        Feature: Timbres can be cleared.
                        Feature: Set list name can be changed in an edit window in the PCG window
                                 (Kronos only).
                        Improv:  Set list name is shown in the bank list view in the PCG window
                                 (Kronos only).
                        Improv:  When combis are cleared, timbres are cleared (several parameters
                                 are cleared).
                        Improv:  Compacting patches can only be performed when at least 2 patches
                                 have been selected.
                        Bug Fix: Fixed unfilled columns for GM/unpresent timbres in long combi
                                 content list.
                        Bug Fix: Dirty flag was not reset after saving/saving as command.
                        Special: Removed special event icon.
0.4.1.140  15-Jan-2012  Improv:  Windows are opened at the same size as when closed the previous
                                 time.
                        Improv:  Updates status bar with PCG info from a focused PCG window/combi
                                 window.
                        Bug Fix: Prevent crash when combi banks selected in PCG window when I-A is
                                 not present (Kronos only).
                        Bug Fix: Prevent crash/corrupt file for OS1.5 PCG files after
                                 moving/compacting patches (Kronos only).
0.4.1.143  15-Jan-2012  Bug Fix: Prevent crash when opening complete but not filled PCG files
                                 (Kronos only).
0.4.2.144  18-Jan-2012  Bug Fix: Prevent M3 PCG files showing 'file unavailable' (M3 only).
0.4.2.145  19-Jan-2012  Bug Fix: Prevent incorrect moving/compacting/copying of set list slots for
                                 OS1.5 update (Kronos only).
0.5.0.148  25-Jan-2012  Feature: Show song names of a SNG file.
                        Feature: Show used samples/sample files of a SNG file.
                        Improv:  Added two columns for set list slots: Timbre ID and name where it
                                 refers to. (Kronos only).
                        Improv:  Multiple files can be selected in the open dialog window.
                        Improv:  A wait cursor is shown while opening/saving files.
                        Improv:  When opening a file that is already opened, the file name is
                                 displayed with an info message.
                        Improv:  PCG file can only be saved if it has been changed (asterix symbol
                                 is shown).
                        Improv:  Status bar shows active file type (PCG or SNG).
                        Improv:  Status bar shows Triton model (i.e. LE, Extreme etc). Copy/Paste
                                 Triton in family works.
                        Bug Fix: Increased speed of copy/paste/move up/down and compact functions.
                        Bug Fix: Prevented unneccessary warnings of the same file being already
                                 opened.
1.0.0.150  10-Apr-2012  Feature: Created a PDF manual (see
                                 www.korgforums.com/support/kronos/Manual%20PCG%20Tools.pdf).
                        Improv:  Replaced shortcut keys help page with link to manual.
                        Improv:  Changed the icon and logo in the about window to the new design
                                 (created by Mathieu Maes).
                        Improv:  Added people and changes text in the about window.
                        Improv:  Initial PCG/Song window size reduced to 400x300.
                        Improv:  Defined minimum sizes for scalable windows to prevent distortion.
                        Improv:  More shortcut keys are shown after menu items which already had a
                                 shortcut key.
                        Improv:  Windows can be closed with Ctrl+F4.
                        Improv:  Improved text of an information copy/paste window.
                        Improv:  New external links added to PCGTools@KorgForums, korg.com, Keller12
                                 and Kronoscopie.
                        Improv:  Added error icon and default caption for several error/warning
                                 dialog windows.
                        Improv:  All relevant dialog type windows are now centered in the middle of
                                 the application.
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                        Improv:  Improved checking for duplicated open files (case insensitive now).
                        Bug Fix: Multiple items can be selected by keyboard in a correct way.
                        Bug Fix: After moving up/down patches, extending a keyboard selection works
                                 correctly.
                        Bug Fix: Fixed a formatting problem in the table output of the differences
                                 list.
                        Bug Fix: Usage of return/line feeds in set list descriptions fixed (Kronos
                                 only).
                        Bug Fix: Prevented crash when double clicking a non combi bank (in certain
                                 conditions).
                        Bug Fix: Shown more timbre parameters for GM programs in combi window.
                        Bug Fix: Fixed typo in the copy/paste Exit warning dialog.
                        Bug Fix: Prevented several crashes related to copy/paste between incomplete
                                 PCG files.
                        Bug Fix: For a long Combi Content List, filtered program banks are now taken
                                 into account.
                        Bug Fix: Prevented GM programs being shown in Programs Usage List when
                                 Favorite filtering is enabled.
1.0.1.167  18-Apr-2012  Improv:  Added Karo to External links window.
                        Bug Fix: To prevent issues, move up/down patches only works for single
                                 selection.
1.1.0.168   6-May-2012  Feature: Cut/Paste functionality, renamed copy/paste occurences to
                                 cut/copy/paste.
                        Improv:  Changed text of hints in Cut/Copy/Paste settings.
                        Improv:  Removed Copy/Paste Help button and dialog text (not needed now
                                 manual is available).
                        Improv:  Added Supernatural Heroes to External links window.
                        Bug Fix: Prevented crash when clearing combis for workstation not supporting
                                 sub categories.
                        Bug Fix: Fixed keyboard short cut text for Move Up and Move Down commands in
                                 menu.
1.1.1.169   9-May-2012  Improv:  Added a chapter in the manual for history changes.
                        Improv:  Added Toon Martens Project to the external links window (and
                                 manual).
                        Improv:  Added kronos-mw, a French language Kronos site to the external
                                 links window (and manual).
                        Bug Fix: Prevented copying programs in the clipboard when cutting
                                 combinations or set list slots.
                        Bug Fix: Prevented wrongly cut combinations and set list slots including
                                 references.
1.1.2.172  17-May-2012  Bug Fix: Fixed problems with cut/copy/paste Kronos (1.5 or later) PCG files.
                        Bug Fix: Fixed problem with identical patches (from cut/copy/paste settings)
                                 between PCG files.
1.2.0.174  25-Jun-2012  Improv:  New theme/UI look for the complete software (thanks to Vanni).
                        Improv:  Added splash screen with a random donator name/logo.
                        Improv:  New screen for thanking Oasys donators of Korg Kronos voucher
                                 codes.
                        Bug Fix: Fixed menu items for setting cut/copy/paste settings and exiting
                                 cut/copy/paste mode.
1.2.1.179   1-Jul-2012  Improv:  Automatically wrap buttons in a PCG window to accomodate small
                                 screen sizes.
                        Improv:  Improved screen layout of a PCG window (stretched windows and
                                 visible scroll bars).
                        Improv:  File Save As now shows the current file name as default in the Save
                                 File dialog.
                        Improv:  In the list generator, the output file is not read only anymore.
                        Improv:  In the list generator, file related errors are shown.
                        Improv:  Added Music House (Muziekhuis) Lyana to external links.
                        Improv:  Name added to Oasys donators of Korg Kronos voucher codes.
                        Bug Fix: Widened program IDs of banks U-AA to U-GG in PCG Window (those were
                                 truncated).
                        Bug Fix: XSL files are only created in case of XML output is selected.
                        Bug Fix: Double clicking on scroll bar of a PCG window does not display edit
                                 window.
                        Bug Fix: Removed column reordeing in PCG windows to prevent other problems.
                        Bug Fix: After saving File As, the new name is shown in the PCG window
                                 title.
                        Bug Fix: Splash screen is now shown for 5 seconds instead of 0.1.
1.3.0.181   5-Aug-2012  Improv:  Added an Assigned Clear Program for clearing timbres in the Combi
                                 Window.
                        Improv:  Added favorite column in patch list generation files (ASCII, table,
                                 CSV, XML).
                        Improv:  Correctly aligned texts of controls in the List Generator, Filter
                                 Set Lists group box.
                        Improv:  Korg Kronos PCG files always shows its OS/PCG number (1.0/1.1,
                                 1.5/1.6 or 2.0).
                        Improv:  Korg M3 PCG files always shows its OS/PCG number (OS1.x or OS2.0
                                 for expanded version).
                        Improv:  Swapped Show and Edit menu options in main menu.
                        Improv:  When copying M3 patches, the version of the file is no longer
                                 changed (M3 only).
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                    Improv:  Added Options/Settings menu and redirect PCG windows button.
                    Improv:  Settings menu unavailable during active copy/paste action.
                    Improv:  Added (Kronos) AL-1 Editor to external links.
                    Improv:  The workstation model and number of samples used by a SNG file are
                             now shown.
                    Improv:  Removed double menu item 'Show Timbres' in Tools menu in main
                             window.
                    Improv:  Song window size is now also memorized when closed.
                    Bug Fix: Song files could not be closed by the File menu, Close sub menu
                             item.
                    Bug Fix: Widened program IDs of banks U-AA to U-GG in PCG Window (those were
                             still truncated).
                    Bug Fix: M3 patches between V1.x and V2.0 can no longer be cut/copy/pasted.
                    Bug Fix: Show correct error when pasting patches between incompatible Korg
                             workstation models.
                    Bug Fix: Korg Triton Studio shows correct bank names for combis EXB-A and
                             further.
                    Bug Fix: Save last window dimensions of the Combi Window.
                    Bug Fix: The Exit command from the File menu crashed the application in some
                             cases.
                    Support: Support for Korg Kronos OS2.0 generated PCG Files.
                    Support: Support for Korg Kronos X generated PCG Files.
                    Event:   Korg is going to release a new workstation: the Korg Kronos X.
1.3.1.182   6-Aug-2012  Bug Fix: PCG Files could not be read at all (in version 1.3.0.181).
                    Manual:  All changes/additions updated from version 1.2.1 upto 1.3.1.
                    Manual:  Added history (these texts) and wish list.
1.4.0.183   1-Sep-2012  Feature: Show (sub) categories even for files without a global section by
                             master files.
                    Feature: Show program names from timbres in combis from the master file if
                             present.
                    Feature: Set and automatically load master files (optionally in settings
                             file).
                    Improv:  Show workstation name and PCG/OS version in window title of each
                             PCG and SNG file.
                    Improv:  When opening a file without PCG content, the file name is shown in
                             the message box.
                    Improv:  Enable all set lists in the set list generator also checks the set
                             list check box.
                    Improv:  Added Imprezariat.pl to the external links (Adrian Craig has become
                             a donator)
                    Improv:  Added Basari Studios to the external links.
                    Bug Fix: Pure Triton LE PCG files (with ID 63) reads timbres now correctly.
                    Bug Fix  The last line of an empty PCG file's patch list caused an
                             incomplete header line.
                    Special: Changed special event into 600+ users.
1.5.0.188  24-Jan-2013  Support: Added support for Korg Krome.
                    Feature: Added drum kits in PCG windows (shows ID/names of drum kits per
                             bank) [KorganizR].
                    Feature: Added wave Sequences in PCG windows (shows ID/names of wave seqs
                             per bank) [KorganizR].
                    Feature: Added drum kits/wave sequences in status bar [KorganizR].
                    Feature: Added new list type in set list generator: File Content List
                             showing usage of banks.
                    Feature: Added support for multiple languages, new languages will follow
                             soon.
                    Feature: Split external links into three different windows.
                    Feature: Added new logo window for third party software (TM-Database,
                             Assembla)
                    Improv:  Added ignore init/empty set list slot items.
                    Improv:  When master file is loaded in PCG Tools, it is only loaded once.
                    Improv:  Added number of selected patches in PCG windows.
                    Improv:  Added drum kits/wave sequences to command line arguments.
                    Improv:  Do not show set list in differences list when set lists are not
                             supported.
                    Improv:  Improved layout of ASCII tables of differences list.
                    Improv:  Set list descriptions are shown in patch list CSV files.
                                     Improv:  Added CJ Johansson to thanks list (for testing
                             Krome).
                    Bug Fix: Master file did not show category and sub category names.
                    Bug Fix: Program banks U-AA..U-GG not selectable in command line arguments
                             [KorganizR].
                    Bug Fix: Ascii table not selectable in command line arguments [KorganizR].
                    Bug Fix: Fixed layout of filter program banks in set list generator.
                    Typo:    Fixed typos in command line arguments help [KorganizR].
                    Typo:    Added space in CmbI... or CmbU... in PCG Window when display set
                             list slots.
                    Special: Changed special event into 850+ users.
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13 Wish List

13.1 Summary

In this chapter all gathered wishes from either users or the designer are described.
Every item is described in detail in the subsequence paragraphs.

Category	Item
Support	Support for Korg X50
Support	Support for Korg microStation
Support	Support for Korg microX
Support	Support for Korg Trinity
Support	Support for Korg arrangers
Connectivity	MIDI support
GUI	Auto save PCG Files
GUI	Drag & drop
GUI	Tip of the Day
GUI	Read zip Files
GUI	Undo/redo
GUI	Define multiple views of status bar
Copy & Paste	Show uncopied patches reason
Copy & Paste	Copy timbres in combi
Copy & Paste	Copy/paste between Oasys/Kronos patches.
Copy & Paste	Insert patch in PCG window.
Copy & Paste	Wave sequences and drum kits also will be copied.
PCG Files	Differ PCG files list
PCG Files	Create new PCG file
PCG Files	Merge two PCG files
Banks	Move bank up or down
Banks	Swap bank
Banks	Delete/insert bank
Banks	Reassign type of program bank (sampled/modeled)
Patches General	Capitalization of names/descriptions
Patches General	Patch database
Patches General	Patch usage marker
Patches General	Patch problem list
Patches General	Controller route list
Patches General	Insert/delete patches
Patches General	Sort patches
Patches General	Swap two patches
Patches General	Clear warning
Patches General	Remove unused patches
Patches General	Add comments to patches
Programs Specific	Multiple program edit
Combis Specific	Multiple combi edit
Combis Specific	Multiple timbres edit
Combis Specific	Sorting timbres inside combi
Combis Specific	Combine programs into a combi

Set Lists Specific	Synchronize set list slot parameters
Set Lists Specific	Band set list generator
Set Lists Specific	Multiple set list slot edit
Set Lists Specific	Convert programs/combis to set list slots
Wave Sequences specific	Edit wave sequence names
Wave Sequences specific	Move wave sequences up/down
Drum Kits specific	Edit drum kit names
Drum Kits specific	Move drum kits up and down
List Generator General	Generate header
List Generator General	Keep current values when changing list type
List Generator General	Add totals to File Content List
Master Files	Add buttons for loading/unloading
Master Files	Accept incomplete files as master file
Samples	Samples reference list
Samples	Samples usage list
Samples	Create list of KSC file
Samples	Sample changer
Global Section/Categories	Category manager
Global Section/Categories	Show always category/sub category names
Global Section/Categories	Create category amount list
Karma	Add Karma GE info in patch list
Sequencer/Songs	Show timbres window for songs
Sequencer/Songs	Convert into combi
Sequencer/Songs	Create list of songs/used samples
Sequencer/Songs	Autoload PCG/song file
Sequencer/Songs	Connect PCG/song file
Sequencer/Songs	Autofix songs when moving programs
Sequencer/Songs	Move song up/down
DAWs	Generate Cubase file
DAWs	Generate Cakewalk file
DAWs	Generate Logic file
DAWs	Generate Reaper file
DAWs	Integrate PCG Tools into DAWs
Manual	Add video manual

Table 34: Wish List

13.2 Support

Support for Korg X50

Description	Add support for Korg X50.
Rationale	X50 users also want to use PCG Tools.
Requester	-
Implementation	-
Open Issues	Different PCG file format.

Support for Korg microStation

Description	Add support for Korg microStation.
Rationale	microStation users also want to use PCG Tools.
Requester	-
Implementation	-
Open Issues	Different PCG file format.

Support for Korg microX

Description	Add support for Korg microX.
Rationale	microX users also want to use PCG Tools.
Requester	-
Implementation	-
Open Issues	Different PCG file format.

Support for Korg Trinity

Description	Add support for Korg Trinity.
Rationale	Trinity users also want to use PCG Tools.
Requester	-
Implementation	-
Open Issues	Different PCG file format.

Support for Korg arrangers

Description	Add support for Korg arrangers.
Rationale	Arrangers users also want to use PCG Tools.
Requester	-
Implementation	-
Open Issues	Different PCG file format if already.

13.3 Connectivity

MIDI support

Description	Use MIDI Sysex messages for sending and receiving patches.
Rationale	By a direct MIDI connection, no swapping of media is needed, changes can immediately be sent to the workstation. Fine granular editing capabilities makes much more sense.
Requester	-
Implementation	Define receive/send functions.
Open Issues	MIDI library needed.

13.4 GUI

Auto save PCG Files

Description	Auto Saves modified PCG files changed, possibly with backup function.
Rationale	It is easy to forget saving. Also automatic backup is a nice addition.
Requester	-
Implementation	Save every x minutes, define x in preferences. Use preferences to set the algorithm (overwrite original file, or create backup and overwrite original, or create backup only).
Open Issues	Auto save for SD cards/floppy can take some time.

Drag and drop

Description	Add drag and drop functionality for moving/cut/copy/pasting patches.
Rationale	Drag and drop is easier than using a keyboard.
Requester	-
Implementation	Trivial
Open Issues	When using cut/copy/paste, not all items can be dropped at the same location (i.e. when the clipboard contains both programs and combis, it is not possible). Workaround is to drop the first element, and rest with using the keyboard.

Tip of the day

Description	When starting the application, show a tip of the day.
Rationale	Not everybody reads the manual and it gives an easy way to learn more features.
Requester	-
Implementation	Trivial
Open Issues	None.

Read zip Files

Description	Read zip files and automatically extract PCG or SNG files.
Rationale	Most downloaded files are in zip format. This would prevent a manual needed zip.
Requester	-
Implementation	Use internal zip functionality from .NET.
Open Issues	Open both PCG and SNG file? Or every possible PCG and SNG file.

Undo/redo

Description	Support for undoing and redoing past commands.
Rationale	Most commands are now irreversible.
Requester	-
Implementation	Memento design pattern. Or just copy the complete content (or better: changed contents).
Open Issues	Very costly memory wise. E.g. a Kronos PCG file is 45 MB, each history state can be upto 45 MB. Besides a major architectural change is needed or a more or less dumb algorithm.

Define multiple views of status bar

Description	Define more than the current single format of the status bar.
Rationale	Currently the status bar contains the workstation model PCG file, the version, the type of opened file and in case of a PCG file, the number of all patches in the selected PCG and the contents of the clipboard buffer. This line can be very long and not everybody uses wide screen monitors. Therefor multiple views should be added.
Requester	-
Implementation	Mainly the listing of patches can be smaller. The current view should become the default/long view (although changing spaces by commas would be nice like: *23 programs in 5 banks, 3 combis in 2 banks, 125 set list slots in 5 set lists, 3 wave sequences in 1 bank, 25 drum kits in 2 banks.* A smaller format could be (for patches): 23 programs, 3 combis, 125 set list slots, 3 wave sequences, 25 drum kits. An even smaller format could be: 23P, 3C, 125 SLS, 3WS, 25DK
Open Issues	-

13.5 Copy & Paste

Show uncopied patches reason

Description	When cut/copy/pasting results in no copy/paste a big window is shown with all possible reasons. This should be split into the exact reason.

	Also when pasting programs in incompatible program banks (i.e. modeled versus sampled) no warning/error is shown.
Rationale	Easier to see what is the reason of uncopied/pasted patches.
Requester	-
Implementation	Trivial
Open Issues	None.

Copy Timbres in combi

Description	Add cut/copy/paste of timbres inside a combi. Also preferably, add cut/copy/paste between timbres.
Rationale	This functionality is not available on a workstation.
Requester	n.a.
Implementation	Add cut/copy/paste buttons to the Combi window. When cut/copied, the timbres are stored in the clipboard.
Open Issues	How to handle effects? Will there be KARMA issues?

Copy/Paste between Oasys/Kronos patches

Description	Copy/Paste patches between Korg Oasys and Kronos, for those patches that have compatible EXis.
Rationale	No automatic conversion in the Oasys.
Requester	-
Implementation	-
Open Issues	How to handle programs/combis using incompatible EXis? Different samples/sample set.

Insert patch in PCG Window

Description	In a PCG window, instead of overwriting a patch that is pasted, insert it.
Rationale	Currently it is overwritten (or not possible to overwrite).
Requester	n.a.
Implementation	Add option in preference to select between giving a warning if a patch is deleted (the last of the bank) or if it should be possible or not. If the clip buffer is not filled, insert an empty patch.
Open Issues	Warning or error when the last patch should be removed? How to get an empty patch?

Waves sequences and drum kits also will be copied

Description	When currently patches are copied, wave sequences and drum kits are not taken into account.
Rationale	When pasting patches to other PCG files, when using the non default wave sequences or drum kits it might break the sound.
Requester	n.a.
Implementation	Copy used wave sequences and drum kits.
Open Issues	-

13.6 PCG Files

Differ PCG files list

Description	Create a list with the difference between two PCG files (from the same workstation model).
Rationale	Currently it is not possible to diff two PCG files.

Requester	n.a.
Implementation	Generate a list per selected patch which are different. E.g. short list: Program Bank I-A: 1, 2, 6, 8, … Combi Bank I-C: 6, 33 E.g. long list: Patch Name 1 Name 2 Content Diff Program I-A000 Kronos Grand = 34 Meaning 34 bytes differences, = means that the names are equal.
Open Issues	Add global differences.

Create new PCG file

Description	Creates a new file from the specified workstation model. Optionally the contents can be set (which program banks, combi banks, set list slots and whether to add a global section).
Rationale	Currently this is not possible.
Requester	n.a.
Implementation	Use a full PCG file of each workstation model and remove all banks (and global?) or create from scratch? Using a full PCG and delete all unrequested banks/global section would be easiest.
Open Issues	Creating from scratch will be very tricky but the most clean solution.

Merge two PCG files

Description	Merge two PCG files, i.e. copy all programs/combis/set list slots from one PCG file to the other.
Rationale	Currently this is not possible.
Requester	n.a.
Implementation	Two alternatives: Dumb: start copying until the PCG file is filled (either it is finished ok or there is not enough space). Intelligent: First analyze duplicates, then calculate if the complete copy fits. If not, show a warning (possibility to continue).
Open Issues	What to do if both PCG files have global settings? What to do with incomplete copies (i.e. not all programs fits, combis/set list slots use uncopied programs?)

13.7 Banks

Move bank up or down

Description	Move a bank up and down.
Rationale	Currently not possible.
Requester	-
Implementation	-
Open Issues	Take care for Modeled/Sampled banks (change header), also check MOSS specific banks.

Swap bank

Description	Swap two banks.
Rationale	Currently not possible.
Requester	-
Implementation	Reuse Move Bank Up or Down
Open Issues	-

Delete / insert Bank

Description	Delete or Insert a bank.
Rationale	Currently not possible.
Requester	-
Implementation	-
Open Issues	See delete/insert of patches.

Reassign type of program bank (sampled/modeled)

Description	Reassign the type of a program bank if supported (Sampled Bank <-> Modeled bank)
Rationale	Currently not possible.
Requester	-
Implementation	Add warning (patches are destroyed).
Open Issues	-

13.8 Patches General

Capitalization of names/descriptions

Description	In multi edit mode (and single), add the possibility to (de)capitalize names of patches and descriptions of set list slots.
Rationale	It is tedious to change this per patch. Capitalized names are used sometimes to denote own creations. Also capitalized names are easier to read (especially in descriptions of set list slots).
Requester	-
Implementation	Add option in both single and multi edit windows.
Open Issues	-

Patch database

Description	Manager for patches of all present PCG files (from different workstations).
Rationale	Easier to handle/find/generate lists to have all patches in one big Database file.
Requester	n.a.
Implementation	Create a database that can handle all possible patches.
Open Issues	Definition of database.

Patch usage marker

Description	Mark names of program that are used in combis and set list slots and mark combis that are used in set list slots. Also create the possibility to generate a list with markers.
Rationale	It is hard to see which programs/combis are used in other patches currently. By marking them it can be instantly seen on the workstation itself.
Requester	n.a.
Implementation	Add a menu option to add (or delete) the (usage marker) symbol can be added to the end of the name (e.g. *). This symbol can be set in the preferences. In the set list generator, add a list type to show marked patches.
Open Issues	What if the name already has the maximum amount of characters? Also, it is not possible to see the difference between a name being marked or having the last symbol equal to the usage marker symbol.

Patch problem list

Description	Generate a list of possible patch problems, like: Patches with identical names Patches with identical content except for the name (exclude set list slots?) Combis with a non init or blank name with filled timbres. Combis without any used timbres. Programs, combis and set list slot with samples from unloaded EXSs.
Rationale	For users, it is very handy to have this information.
Requester	n.a.
Implementation	Create a different selection window for these options? For the samples, add a preference window to fill in which EXSs are loaded and store them by preferences.
Open Issues	EXs list only for Kronos?

Controller route list

Description	For the selected patches, generate a controller route list, such as aftertouch, velocity, VJS, JS, panel knobs/sliders etc..
Rationale	Currently it is not possible to see what controllers are controlling which functions and in what amount.
Requester	n.a.
Implementation	Add this option also to the PCG window because one program/combi can generate a big file. Add parameters for all controllers (for all workstation models). Also take into account controllers for effects, SW1/2 and pedal functionality, range of controller values.
Open Issues	What if Global section is not present? (missing SW1/2 functionality).

Insert/delete patches

Description	Insert (before)/delete the selected patch.
Rationale	Currently not possible (except by moving down the last patch).
Requester	n.a.
Implementation	Add preference option to ask for warning or not. For insert, warning when skipped?
Open Issues	Move further patches until blank/init patch encountered?t

Sort patches

Description	Sort the selected patches or banks.
Rationale	Currently it is only possible manually by moving programs up/down and even within the same bank.
Requester	-
Implementation	Two alternatives: Sort alphabetically only Sort by a user specified key (e.g. alphabetically, by category/sub category, by engine type (Kronos). Optionally store last order key settings.
Open Issues	-

Swap two patches

Description	Swap two patches.
Rationale	Currently not possible.
Requester	-
Implementation	Swap two patches (also from different banks if possible). Either by selecting one patch, then go to another bank and select one patch. If this is infeasible: have the following algorithm: If one patch is selected, show a window to ask for the second swap patch. If two patches are selected, swap them (only possible internally in one bank).
Open Issues	-

Clear Warning

Description	Show a warning when used patches are cleared.
Rationale	Currently no warning shown; it might result in broken combis/set list slots.
Requester	-
Implementation	Add a preference with options: no warning, always warning, warning when patches used. If warning when patches used selected: show a warning how many (or exactly which) selected patches are used in combis/set list slots and ask to continue or not.
Open Issues	-

Remove unused patches

Description	If combi(s) are selected: clean all programs not used in those combis. If set list slot(s) are selected: clean all programs/combis not used in those set list slot(s) and programs referenced in those combis. Also compact all remaining programs/combis.
Rationale	Assuming that combis or set list slots contains all that the user wants to keep, everything else can be cleaned.
Requester	-
Implementation	-
Open Issues	-

Add comments to patches

Description	For set list slots on the Kronos (X), comments about the set list slot can be entered via set list slot descriptions. However, it would be nice to have this for programs and combis too (also for other wirkstation models.
Rationale	Comments can be used for showing information about the author and/or usage of the patch, controller info etc.
Requester	-
Implementation	-
Open Issues	The information cannot be stored inside a PCG file because there is no space reserved for it. So either a sort of database or external file needs to be used. This file needs to be manually synced with changes not performed by PCG Tools.

13.9 Programs Specific

Multiple program edit

Description	Perform editing on all selected programs, such as volume.
Rationale	It is tedious to change this per program.
Requester	-

Implementation	Use different options like: Set to fixed value. Add fixed value (show min/max values and clipping Boolean) Add percentage (show min/max values and clipping Boolean)
Open Issues	Volume parameters may differ per EXi type.

13.10 Combis Specific

Multiple combi edit

Description	Perform editing on all selected combis, such as volume, transpose.
Rationale	It is tedious to change this per combi.
Requester	-
Implementation	Call the Timbres Edit for each selected combi. Use the same options as in Multiple Program Edit
Open Issues	-

Multiple timbres edit

Description	Perform editing on all selected timbres in a combi, such as volume, transpose.
Rationale	It is tedious to change this per timbre.
Requester	-
Implementation	Add the command in the Timbres window. Use the same options as in Multiple Multi Program Edit.
Open Issues	-

Sorting timbres inside combi

Description	Sorting the selected timbres in a combi. The sorting key should be MIDI Channel, Bottom Key Zone, Top Key Zone, Bottom Key Velocity, Top Key Velocity. External timbres should be moved to the end. Timbres which are set to Off or Mute or have velocity 0 removed.
Rationale	When changing combis, often timbres are assigned in random order or added later. By sorting, the combi will be put in a better order.
Requester	n.a.
Implementation	Add a sort button to the Timbres window. Add the possibility to leave a gap between timbres of different MIDI channels.
Open Issues	Should the sorting order be flexible? (e.g. added to the preferences?) What if the gap size is not possible? Proposed solution: start adding gaps from left to right while possible.

Combine programs into a Combi

Description	Select one or more programs and combine them into a combi, by creating timbres to the selected programs. Also copy effect settings (optional).
Rationale	Currently not easily possible. Effect copying can be set on most workstations.
Requester	n.a.
Implementation	Effect copying is very tricky.
Open Issues	What is the best algorithm (or algorithm used by Korg Kronos) to copy effect settings? Should in case of too less effects, similar effects be merged (preference option?).

13.11 Set Lists Specific

Synchronize set list slots

Description	Synchronize the parameters of the selected set lists/slots to the non selected set list/slots for equally named set list slots.
Rationale	When have set list slots copied (e.g. for alphabetic order, gig order, rehearsal order), and one changes the parameters of a set list slot, a manual copy is needed for each changed patch.
Requester	-
Implementation	First check if within the selection, identical set list slot names are selected. If so, give an error and stop. Else for all non selected set list slots, if the name is within the selected set list slots, copy the parameters.
Open Issues	-

Band set list generator

Description	Generate a band set list (as PDF, Word or RTF document) for bands, based on set lists.
Rationale	Bands need a printout of their set list(s) during play.
Requester	-
Implementation	Create a document, based on some kind of preferences, possibly with a logo etc.
Open Issues	Maximum number of songs, flexibility of the document/preferences.

Multiple set list slot edit

Description	Perform editing on all selected set list slot, such as volume, transpose.
Rationale	It is tedious to change this per set list slot.
Requester	-
Implementation	Use the same options as in Multiple Program Edit.
Open Issues	-

Convert programs/combis to set list slots

Description	Automatically convert programs and combis to set list slots.
Rationale	Currently this is only possible on the workstation (Kronos only).
Requester	-
Implementation	-
Open Issues	-

13.12 Wave Sequences Specific

Edit wave sequence names

Description	Add an edit window for editing wave sequence names.
Rationale	Currently not possible.
Requester	-
Implementation	Add a window.
Open Issues	-

Move wave sequences up/down

Description	Move a wave sequence up and down, keeping patches using the wave sequence (and the moved wave sequences due to moving the selected wave sequence) in sync.
Rationale	Currently not possible.
Requester	-
Implementation	-
Open Issues	Might be a task taking some time because all patches need to be analyzed.

13.13 Drum Kits Specific

Edit drum kit names

Description	Add an edit window for editing drum kit names.
Rationale	Currently not possible.
Requester	-
Implementation	Add a window.
Open Issues	-

Move drum kit up/down

Description	Move a drum kit up and down, keeping patches using the drum kit (and the moved drum kit due to moving the drum kit) in sync.
Rationale	Currently not possible.
Requester	-
Implementation	-
Open Issues	Might be a task taking some time because all patches need to be analyzed.

13.14 List Generator General

Generate header

Description	Generate headers for generated lists.
Rationale	Currently it is not possible with what settings a list is generated.
Requester	-
Implementation	For text/table files, add a text header. For CSV files do not create a header (or use textual header), for XML file add an XSL header. Add an option for optionally generating a header in the Generate List window. *Example:* PCG Filename: PRELOAD.pcg Date of PCG File: 28 Sep 2010, 18:34 Program Banks Present: I-A, I-B, … Combi Banks Present: I-A Set Lists Present: Yes Global Present: No Date of List generation: 14 Jul 2011, 12:13 List Type: Patch List Filter: On Text: Piano Selected Program Banks I-A I-B I-C Ignore Empty Programs: Yes Selected Combi Banks: U-G Selected Set Lists: 1-5 Sort: Alphabetical
Open Issues	Store optional enable/disable headers in preferences?

Keep current values when changing list type

Description	Currently values are mostly set to default when changing the list type in the set list generator.
Rationale	It is time consuming for a user to change them every time.
Requester	-
Implementation	-
Open Issues	-

Add totals to File Content List

Description	Add totals of all programs, combis etc in the File Content List.
Rationale	Currently totals per bank are shown but not a grand total per patch type.
Requester	-
Implementation	-
Open Issues	-

13.15 Master Files

Add open/close buttons to Master Files window

Description	Currently the Master Files window only shows the paths of the master files and the states. However it would be nice to add buttons for opening or closing the selected master file.
Rationale	This is easier than navigating by hand to the master file when lots of files have been opened.
Requester	-
Implementation	All opened files using the master file should be updated visually. When the master file is already loaded, only the Unload button should be enabled. When the master file is unloaded, only the Load button should be enabled.
Open Issues	-

Accept incomplete files as master file

Description	Currently a Master file can only be selected as Master file if all program banks are present and the global section.
Rationale	For e.g. a Korg Triton Extreme, the F bank (containing MOSS programs) cannot be made on a Korg Triton Extreme without a MOSS board.
Requester	-
Implementation	Check for the PCG windows, Combi window, all Edit windows and all set lists the possibility that a category or sub category still cannot be found, or that programs are not present at all times.
Open Issues	-

13.16 Samples

Samples references list

Description	Create a list of programs/combis/set lists to samples list.
Rationale	Find out which programs/combis/set lists use which samples.
Requester	n.a.
Implementation	Create lists like: **Extended** ID Name S.Sets Samples Prg I-A000 KRONOS Grand Piano KSC01 1, 2 010/034 … KSC01 1, 2, 5, 8, 12, 14, 16-20, 37 **Summary** S.Set Size Samples

	KSC01 50 1, 2, 5-8, 16-20
Open Issues	Name of sample sets need to be gathered (fixed?).

Samples usage List

Description	Create a list of samples to programs/combis/set list slots list.
Rationale	Find out which samples are used in which programs/combis/set list slots.
Requester	n.a.
Implementation	Create lists like: Set Sample Used In KRS01 0 Prg I-A000, Cmb I-A000, 010/020 KRS50 12 …
Open Issues	Name of sample sets need to be gathered (fixed?).

Create list of KSC file

Description	Generate a list with the contents of a KSC file.
Rationale	Find out the contents of a KSC file.
Requester	Ask Sharp for KSC Gen application.
Implementation	To be decided.
Open Issues	-

Sample changer

Description	Change specific sample numbers in a selection of programs, combis or set list slots to different sample numbers.
Rationale	It is tedious to change the multi samples values in all affected programs manually. KRONOS (X): Also some do like one piano better than another (e.g. Japanese Piano instead of Austrian Piano). With this option all patches can make use of another piano instead of having to change multiple patches one by one. It can be used to not load a certain EXs and move all unloaded multisamples to loaded ones.
Requester	-
Implementation	An external list is needed which maps a list of samples to another list of samples (1 to 1).
Open Issues	Format of this list has to be specified.

13.17 Global section/Categories

Category manager

Description	Possibility to change category and sub category names in the global section. Possibility to change the category and/or sub category of a selection of patches.
Rationale	Changing texts on a workstation is quite tedious. Also it is not possible on a workstation to change the category and/or sub category of multiple patches at the same time.
Requester	n.a.
Implementation	Add the possibility to change the category/sub category in the edit window of programs and combis. Also add a menu item to change the category/sub category (in case of multiple patches are selected). Also one or more selected banks can be changed in one action. Add a window to manage the current category/sub category names and save them in the global section.
Open Issues	When there is no global section, names of categories and sub categories are not

	available. Possibly implement XXX first.

Show always category/sub category names

Description	Currently only category/sub category names are shown when a global section is part of the PCG file. Use a default or alternative PCG file for these names.
Rationale	Number of categories/sub categories are difficult for interpretation.
Requester	-
Implementation	Create a preference what to select (only names if global as now, default names (hardcoded), names from alternative PCG file).
Open Issues	If names from alternative PCG file: one needed per workstation model (?).

Create category amount list

Description	Generate a list with categories (and sub categories?) amounts from a PCG file.
Rationale	Add more information to the
Requester	-
Implementation	Example: Category Sub Category Programs Most in Banks Combis Most in Banks Piano (all) 126 I-A (38) 18 U-C (16) Piano A. Piano 12 I-A (14) 16 U-C (16) … Most in Banks calculates the bank where the most amount of that category/sub category are present including the amount. Sub category (all) means that it counts every patch of that category, independent of the sub category.
Open Issues	If names from alternative PCG file: one needed per workstation model (?).

13.18 Karma

Add Karma GE info in patch list

Description	Add the Karma GE number/names in the patch list (optionally).
Rationale	Generate more information for users.
Requester	-
Implementation	-
Open Issues	GE names are not in the PCG file.

13.19 Sequencer/Songs

Show timbres window for songss

Description	Show the timbres window, based on a song, instead of a combi.
Rationale	Currently not possible.
Requester	-
Implementation	Optionally with editing possibilities like move up/down.
Open Issues	-

Convert into combi

Description	Convert a song into a combi.
Rationale	Currently not possible (only from combi to a song).
Requester	-
Implementation	-
Open Issues	-

Create list of songs/used samples

Description	In the List Generator, add the possibility to create a list of songs and samples used.
Rationale	Currently not possible.
Requester	-
Implementation	-
Open Issues	-

Autoload PCG/song file

Description	When a PCG file or SNG file is loaded, automatically load the other file.
Rationale	User convenience.
Requester	-
Implementation	When showing timbres, use the patch names from the PCG file.
Open Issues	-

Connect PCG/song file

Description	When two files are loaded, add a function to connect them.
Rationale	When named differently, PCG/SNG files should be connectable too.
Requester	-
Implementation	When showing timbres, use the patch names from the PCG file. Multiple SNG files should be connectable to one PCG file. Preference: store these connections?
Open Issues	-

Autofix songs when moving programs

Description	When programs are moved and a PCG/SNG file is connected, automatically fix the SNG file accordingly.
Rationale	Otherwise songs are broken.
Requester	-
Implementation	Check all connected SNG files.
Open Issues	-

Move song up/down

Description	Add buttons in the song window to move a song up or down.
Rationale	Currently not possible.
Requester	-
Implementation	-
Open Issues	Song file format fairly unknown.

13.20 DAWs

Generate Cubase file

Description	Create a file from the current PCG file to be used in Cubase.
Rationale	Useful for Triton owners and bit less for M series and Oasys/Kronos (X) owners because the editor from Korg can be used.
Requester	-
Implementation	Currently a file is created but now fully supporting all Cubase versions.
Open Issues	-

Generate Cakewalk file

Description	Create a file from the current PCG file to be used in Cakewalk.
Rationale	Useful for Triton owners and bit less for M series and Oasys/Kronos (X) owners because the editor from Korg can be used.
Requester	-
Implementation	-
Open Issues	-

Generate Logic file

Description	Create a file from the current PCG file to be used in Logic.
Rationale	Useful for Triton owners and bit less for M series and Oasys/Kronos (X) owners because the editor from Korg can be used.
Requester	-
Implementation	-
Open Issues	-

Generate Reaper file

Description	Create a file from the current PCG file to be used in Reaper.
Rationale	Useful for Triton owners and bit less for M series and Oasys/Kronos (X) owners because the editor from Korg can be used.
Requester	-
Implementation	-
Open Issues	-

Integrate PCG Tools into DAWs

Description	Integrate PCG Tools into DAWs like Cubase, Logic, Reaper etc.
Rationale	Using a DAW together with PCG Tools would prevent saving/loading PCG files.
Requester	-
Implementation	-
Open Issues	Hardly impossible because PCG files are used which need to be saved by design. Also communicating with DAWs is far from easy.

13.21 Manual

Add video manual

Description	Next to this written manual, add a video manual.
Rationale	Videos are more easier than reading text (even with pictures).
Requester	-
Implementation	Find a workable video editing software tool.
Open Issues	I never created a video. Also speech has either to be left out (since my pronunciation is not well), or another speaker has to be found.

14 Known Issues List

14.1 Summary

In this chapter all issues that have not been solved (some of which probably never will be solved). Each item will be handled in detail further.

Category	Item
GUI	Moving a window behind the menu/toolbar makes it immovable.
PCG Window	Selected patches are sometimes retained after switching banks.
List Generator	Different GM banks are not recognized.
List Generator	Short Combi Content List always shows 16 timbres.

14.2 GUI

Moving a window behind the menu/toolbar makes it immovable

Description	When moving/dragging a window behind the menu or behind the toolbar of the main window, the moved/dragged window cannot be moved again and the upper part of the window is invisible.
Workaround	Save the PCG file (if changes need to be saved), close it and reopen it again.
Fix expectation	Due to a problem in the used GUI library, there is no solution for the short term.

14.3 PCG Window

Selected patches are sometimes retained after switching banks.

Description	When selecting one or more patches, going to another bank, scroll up or down at least one screen size and return to the original bank, when selecting a new patch, the previously selected patches sometimes are still selected.
Workaround	Scroll through the list where the previous selected patches are, and reselect the desired patches. Note t hat the number of selected patches are shown at the top of the screen to immediately see if this unwanted effect occurs.
Fix expectation	When changing to a different MDI mechanism, there is no solution for the short term.

14.4 List Generator

Different GM banks are not recognized.

Description	The lists created by the list generator do not make a difference between GM, G(1)-G(9) and G(d) banks. All these banks are shown as GM.
Workaround	None
Fix expectation	Not likely, but the consequence is not big. Since GM banks (G(1)-G(9) and G(d)) are not present in a PCG file anyway, it will not matter for most lists.

Short Combi Content List always shows 16 timbres

Description	The Combi Content list, always shows 16 timbres, regardless on the model.
Workaround	Manually remove the last eight columns for 8 timbre/combi workstation models, but this is only a cosmetic change.
Fix expectation	High likely.

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