

FrexxEd

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REVISION HISTORY

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Chapter 1

FrexxEd

1.1 FrexxEd main documentation

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```

(C) by FrexxWare 1992-1995

Latest update: 28.5.95, for version 1.7

An advanced, highly customizable, extensible, real-time, zero limitation, fully programmable, function driven full screen display editor.

FrexxEd is crippled SHAREWARE software.

CONTINUE

1.2 FrexxEd documentation index

* FIRST GLANCE

History of changes
 FrexxEd for Dummies or Quick guide for beginners
 Features of FrexxEd

* INTRODUCTION

Introduction
 About the manuals
 About the project
 Bug reports
 Distribution

* GENERAL EDITING CONCEPTS

Block/buffer concepts
 Character set
 Controlling the display
 Erasing text
 File handling

File tree details	GUI/Workbench
How to reach us	Inserting text
Ideas	List gadget
Installation	Long lines
Registration	Point location
Requirements	Running commands by name
Starting FrexxEd	Screen organization
Support	Search and replace
Thanks	Undoing changes
Todo	Using multiple buffers
Warranty	View concepts
	Using macros
	File handler
	Using folds

* CUSTOMIZING & CONFIGURATING * PROGRAMMING FREXXED

1.3 Customizing & configuratiting

Overview

- Change settings
- Change fonts
- Change startup environment
- Change the FACT
- Change key setup
- Change the menu setup
- Change mouse button actions
- Change keymap
- Change icons
- Change colours
- Change the status line

Save your changes

Patch internal functions

1.4 Programming FrexxEd

Survey

Introduction to FPL

Programming FrexxEd

Storing FPL programs

Documenting FPL programs

Global symbols in FrexxEd

Listing functions

Startup functions

ARexx and FPL

Exceptions

Info variable secrets
Using search and replace in programs
Debugging FPL
Function reference

FPL syntax and usage

1.5 History of changes

This is a brief summary of the changes done to FrexxEd:

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- GetKey() is now capable to return the complete qualifier sequence of a pressed key.
- Resizing of the FrexxEd window could make it impossible to kill a buffer!!
- Replace inside block is fixed.
- MaximizeView() didn't accept the buffer id parameter.
- AppQuery.FPL was fixed to look better.
- Three more packets are supported by the filehandler.
- QueryKillChanges.FPL is enhanced. Most noticable on the "Quit all" - requester that appears if trying to quite while modified buffers are still in memory.
- FPL is even more bugfixed. Version 12.4 is included.
- Jesper's latest FMC.FPL is included.
- Volker Gûth's WordWrap.FPL is now included. Further development was done by Jesper Skov. It was developed a bit beyond that too...!
- QueryKillChanges.FPL is updated to take advantage of FPL v12 features as well as remove some bugs that could appear when quitting.
- There was a problem to place the cursor beyond 33000 columns.
- A Clear() of a buffer is now placed in the undo buffer.
- The filehandler now displays noname files as "noname". Multiple nonames are displayed like the standard "noname,<num>".
- All the FACT-functions IsXXXXX() now accept an option fact name parameter.
- GetEnv() and SetEnv() reads and writes global environment variables.

1.6beta

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- FPL version 12.1 is included with this package. Now features string additions like 'string a = "foo" + "bar";' and a fixed bug concerning



nested switch()-uses...

- 'request\_pattern' is a new info variable to read and write the file match pattern of the file requester.
  - SetSave() accepts a second argument which specifies a buffer to read the values from when the local settings' values are stored instead of the default values.
  - The file executeable protection flag is turned off by default.
  - GetDate() got an extended syntax. Can now even be used to read the current system time and date.
  - ReturnStatus() is slightly enhanced to make it easier to return a decent return status message from FPL functions. It now accepts an ERRNO-integer as parameter, and it automatically convert that to the proper error message string.
  - 'GotFile' is a new exception that occurs when a file has been loaded.
  - Fold(), FoldShow(), FoldDelete() and FoldHide() offer complete control of the brand new FrexxEd buffer folding system. Read more about it in the 'Using folds' chapter.
  - 'fold\_save' is a variable that when set makes FrexxEd save the fold information inside a file when saved, or read from a file when loaded.
  - Search/replace now features the 'inside folds' flag too, to enable searching and replacing within folded areas.
  - Each started FrexxEd now mounts a virtual disk volume. The first started frexxed gets a disk called FrexxEd0: mounted, the next is called FrexxEd1: and so on. It makes all buffers accessible for external programs just like files on regular disks. Consider it a ram disk! Read the dedicated document chapter 'filehandler'.
  - FrexxEd is now made as frexxed.library. The 'fred' program searches for it in FrexxEd:libs/, current directory, LIBS: and finally in the FrexxEd: directory.
  - MenuRead() couldn't read a menu separator bar.
  - GetList() is a new function for reading different list from inside of FrexxEd. Currently only a list with all FACTs and the search-history.
  - 'status\_line' is a new and powerful info variable with which the user control the looks/format of the status line. See the 'change status line' chapter.
  - Multiple FACTs are supported. FACTCreate() is a new function and FACT() offers extended functionality. 'fact' is a new local info variable that controls the FACT of each single entry. FACTClear() accepts an additional parameter that specifies which FACT to clear.
  - Load() didn't load if the buffer was write protected!
-

- The path could be wrong if you specified a directory instead of a file.
- More error checks have been inserted to all save actions in the ExtraIO.FPL.
- Stephane Zermatter brought us a French translation of the installer script and the catalog.
- MenuClear() could fail.
- You couldn't resize the window when it was minimized.
- GetByte() returned byte position + 1.
- It didn't work 100% to construct global string settings.
- The FACT bugged if you resetted it during the startup.

1.5

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- Danish users are now able to register in Denmark using danish currency!
  - The regex search couldn't find the last character in a buffer.
  - Replace of a newline could make enforcer hits.
  - The search flag info variables didn't show the right state.
  - Rexx/ShowFPL.rx by Edd Dumbill is an *\*EXCELLENT\** tool for all of you out there, who are not quite certain of which FPL programs to execute and which you shouldn't execute at startup. Try it!
  - Visible(0) is appended to the top of the default file to make executions of it look much better after FrexxEd is started.
  - PromptInfo() could miss user-defined info variables with similar names.
  - The danish catalog was updated by Marc-Berco Fuhr.
  - Rawkeys as menu shortcuts were not shown properly.
  - "MenuSelect" is a new exception that occurs when a menu item is selected. Requested by Carsten Orthbandt
  - New functions: GetFileList(), MenuRead() and MenuDelete().
  - If you didn't have the "font.prefs" file, you could get a topaz 6x8 font when cloning the WB.
  - Carsten Orthbandt supplied us with a German Menu.FPL translation!
  - Assigning key sequences using the 'alt' qualifier wasn't working quite as it should!
  - The execute file requester now remembers the directory. Requested by
-

Jesper Skov and others.

- Wrong entry could be activated if you triggered an FPL script to get executed when a setting was changed.
  - Functions.guide now has the node-names without the 'node\_' prefix, as requested by Carsten Orthbandt!
  - GetByte(column, line) returns the byte position of the given parameters or the current position. Like GetCursor() but the other way around!!
  - MenuAdd() now accepts optional coordinates where to add the menu item!
  - New 3D style sliders while on screen.
  - WindowToFront() with parameter -1 makes a WindowToBack. Requested by Emil Brink.
  - ExecuteFile() now accepts a file pattern to be executed.
  - NEW CONCEPT!  
Put all FPL programs you want executed at startup in the FrexxEd:startup/ directory. Remove them from the directory if you don't want them executed at startup! The User.FPL will still be executed as before. Save "startup-macros" the same way, by using the .macro extension in that directory. For this purpose, Startup.FPL has been added to the archive.
  - MenuAdd() is now capable of adding boolean menu items. The items have to be regular info variables though.
  - By setting a boolean variable to -1 with SetInfo(), the variable will toggle from 0 to 1 or 1 to 0.
  - GetLine() now accepts a BufferID as a second optional argument. Requested a long time ago by Björn Reese.
  - The function list is displayed in the key assign requester. Requested a long time ago by Robert Ramiega.
  - The Blockxxx() function didn't handle illegal block boundaries properly. Reported by Jesper Skov.
  - CenterView() didn't update the slider. Reported by Jesper Skov.
  - The menus are now activated first when FrexxEd is fully started, to ensure that no item is selected too early. Reported by several people.
  - If you make a MenuClear() without a following MenuBuild() the internal default menus will be constructed.
  - The 'copywb' setting is removed, the function CloneWB() is to be used to copy the public screen information to the FrexxEd settings. A public request!
  - If you run more than one concurrent FrexxEd, the appicons get the same names as the ARexx ports. Reported/requested by Patrik Lundquist.
-

- An 'R' in the status-line shows if the buffer is read-only. Requested by Jesper Skov.
  - The screen will beep if you try to edit a read-only buffer. Requested by Jesper Skov.
  - The slider could lie to you.
  - The font prompts from the setting list were switched.
  - FlipComment.FPL was added to the archive, written by Niklas Angare. It is made to "Flip comments around C-lines".
  - We added the so far pretty simple FPL debugger 'FPLdb' to the FrexxEd:bin/ directory as well as an FPLdb.doc file. That file improves FPL debugging capabilities. If anyone out there feels like helping us by improving FPLdb, please get in touch for all details!
  - The shithead called MFM/Delight proved himself a real ass by distributing a "cracked" version of FrexxEd 1.4. The "cracked" version did not only cause a serious amount of enforcer hits, but did also crash brutally when invoking the export to clipboard function. We take no responsibility for the effects of using that version.  
The cracker Tomas Svensson (his real name) claims in a text-file to be able to create a keyfile-maker, though that is a big piece of lie!!
  - FrexxEd now allows buffer executions to export/cache FPL programs. That means you can write your FPL program in a buffer when debugging it. Re-executing the same buffer will make FrexxEd first flush the old program and then run the buffer again.
  - Nicolas S Dade fixed both the FrexxEdStart.rx and the Freds scripts to work better and nicer.
  - Jesper Skov updated the RCSControl.FPL program and added CompleteWord.FPL to the collection. It is a wonderful little program that just needs to be seen and tried! He has also contributed with updates to Comment.FPL, LaTeXCompile.FPL, ZMacS.FPL and the new ones: IncSearch2.FPL and NumericArgument.FPL!!!
  - WordWrap.FPL is updated. It doesn't leave any trailing spaces at the end of lines any more. Requested by Svante Hedin.
  - I've tried to update the docs where old or missing information has been reported. New chapters about macros appeared and updated the regular expression chapter. Requested by Emil Brink.
  - fpl.library was yet again updated. 11.1 is the latest one...
  - RepeatFunction.FPL included a syntax error! ;(
  - New FPL programs:
    - DeleteSpaceEOL.FPL - An entirely new beast. This scans and removes white spaces at the end of lines before saving them if the toggle buttons says so.
    - RememberView.FPL - Make FrexxEd remember the view positions when "amiga 1"
-

- is pressed. "amiga 2" restores the views back as they were!
- ISpell.FPL - ISpell interface
- CheckLinks.FPL - Amigaguide document link control
- GotoLabel.FPL - Collects all assembler labels in a list and lets the user select one to jump to. A poor man's 'ETags' !!
- Nicolas S Dade brought us AppQuery.FPL with a "cancel" button and a default AppIcon: 'icons/.appicon.info'.
- LoadSaveProject.FPL was updated by Mathias Axelsson.
- Save As... now uses a "save-style requester".
- SASC.FPL.README has more information.
- ResizeView() now accepts a buffer ID parameter.
- 'top\_offset' is a new setting (info variable). If contains the line of the window the current view starts at. The variable is writeable.
- Activate() accepts a new parameter: buffer ID of the buffer that the new view should originate from.
- ReplaceMatch() now accepts two new additional parameters: range and flags.
- ETags.FPL and the etags archive was added. A major help tool to any programmer using FrexxEd.
- All occurrences of 'Sprintf' was replaced with 'sprintf' in the FPL programs. Added a hook in FrexxEdMain.FPL that warns if a Sprintf() is used. Sprintf() is subject of removal in a future version of FrexxEd.
- A guru could occur if you removed a duplicated view by resizing it.
- The block mark was not correctly updated when you deleted a line with the delete key.
- A dealloc problem could occur if you used AssignKey() wrong.
- Sort() and BSearch() were not working correctly.
- Escape is now equivalent to 'q' in replace prompts. Request.

## 1.6 Introduction to FrexxEd

FrexxEd is more than an editor that provides a set of functions and features. It's more like a shell, holding a text and enabling the user to perform whatever he/she wants to perform on it.

The intention of FrexxEd has been to create an editor which any user should be able to control to do and behave exactly as he/she thinks is the "right" way. If you want a requester querying whether you really should kill a changed buffer before actually doing so, it should be able to do, as well as \*not\*

doing that querying. If anyone would like to set up an editor for editing EBCDIC text files, why shouldn't this be possible?!? If you would like the representation of standard ASCII characters to look different, we want it to be possible!

One of the main missions of making FrexxEd has been to make everything dynamic and to insert the ability to change every single behaviour. FrexxEd is entirely function driven, and all functions can be replaced by the user, e.g. the function that outputs 'a' when the a- key is pressed or the function that places the cursor when the mousebutton is pressed. All internal functions can be altered by the ability to hook them - make one of your own functions to get called before the actual function is called.

The most frequent question when using FrexxEd shouldn't be "WHAT is possible?" or "is XXXX possible?" but "HOW do I make XXX possible?".

FrexxEd is ShareWare. The evaluation copy features annoying requesters and a few removed functions. You may not use this editor for testing a longer period than two or three weeks without paying the shareware fee. Registered users will get a keyfile (that will improve the functioning and remove the attention requesters) which will allow the user to use FrexxEd v1, including future revisions, without any further payment. Also, FrexxEd v2 will be cheaper for already registered users. We believe in showing the best sides of FrexxEd in the evaluation copy so that you know for sure what FrexxEd is, so therefore there are only minor cripples inserted in FrexxEd. Don't let that fact encourage you to use it without paying, show us that you value small cripples as it gives you better evaluation possibilities!

Register FrexxEd by sending 200 SEK, your name and address to us. Use the register form that comes along in this package. See the registration section.

## 1.7 Features of FrexxEd

Some of FrexxEd's features are:  
=====

- o 100% recursive undo, changeable undobuffer size and on/off toggle
  - o unlimited number of buffers/blocks/macros in memory
  - o unlimited line lengths and buffer sizes
  - o 100% programmable, everything can be done by a script instead of interactive
  - o unlimited number of views viewing the same buffer/file
  - o \*very\* C-like programming language (FPL)
  - o folds, hide parts of the buffers
  - o mounted filehandler volume, access all buffers like with an amiga disk
  - o clipboard support, export to/import from any unit
-

- o uses V39-style memory pools
  - o V39 aware, uses V39 functions when available
  - o AppIcon/AppWindow support
  - o Window/Screen/Backdrop
  - o file name extension aware icon usage
  - o supports locale library, 7 languages are supported at the moment
  - o easy macro record/edit/view/play/save/load
  - o customizable look of any ASCII character (to i.e enable the inverse CED-look or the \xxx Emacs-look or...)
  - o programmable keyassignments, make any key do anything
  - o programmable mouseactions, make any mouse action perform whatever you want it to
  - o rectangular/column style block marks and block pastes
  - o programmable menustrip, make it contain whatever you please!
  - o supports XPK and PowerPacker compression/decompression and encryption/decryption.
  - o startup-script that loads any file into a running editor
  - o >500K documentation in amigaguide format
  - o works just as good used with gfx hardware like Retina, GVP Spectrum, Piccolo, Picasso II, A2024, AGA, ECS or OCS...
  - o of course useable on any screenmode
  - o ARexx port, capable of reading and writing ARexx variables!
  - o A \*LOT\* of additional scripts that perform a multitude of different things. From mousedragging-style blockmarking, archive-flag removal when saving, center line, binary editor, snake game, incremental search, interactive C indenting and word wrap to generic assembler filters, bookmarks, backup, autosave and programs that easy interfaces RCS...
  - o Supports file comments
  - o Custom keymap support
  - o optional "safe save", save with temp name and then rename
  - o easily exchangeable images for icon creations/usage
  - o binary loading/editing/saving
-

- o unlimited key sequence lengths
- o ability to clone the public screen when opened as a window on such
- o font sensitive GUI
- o line number mode supported, start each line with the line number
- o ability to replace/change the workings of any internal function through an advanced hooking procedure
- o mailing list and other eletronic mail support
- o runs smoothly with virtual memory managers like VMM
- o search/replace history
- o time invoked functions
- o true appicon iconification

## 1.8 About the manuals

There should be sufficient information in this manual to allow every user to fully understand the features of FrexxEd, but if it isn't enough, do let me know! Just as the executable program, the documentation has to be developed.

For FPL knowledge and FPL programming, refer to FPLuser.guide. As FrexxEd concerns, everything that has to do with the FPL programming is described in the 'Programming FrexxEd' chapter, but the complete function reference is found in Functions.guide.

A lot of other software, trademarks and copyrighted stuff is mentioned in this manual. We do not claim to have written anything but the FrexxEd files (excluding reqtools.library). For further information about any of the other softwares mentioned, ask anyone on the Net. They'll know.

To read the most frequently asked questions, consult the FrexxEd.FAQ document.

This manual is written by Daniel Stenberg. I have also found many inspiration sources in several other docs...

If we get enough requests for a printed manual, we will consider distributing one at a fair price.

## 1.9 About the FrexxEd project

FrexxEd is pronounced as if we were mixing the two words Fred and sex, using the first sound of Fred and the last of sex, then add the suffix "ed".

FrexxEd was developed on our A500s with three megabytes until late September

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1992 when we bought ourselves one A3000 each, featuring many more megabytes. (420 kilobytes of source code took a while to compile on an A500...)

We used SAS/C 5.10 until the 6.0 was released. The 6.x with Mungwall, Enforcer and SegTracker is a superior development environment.

We started beta (alpha?) testing FrexxEd in the middle of May 1992.

The editor is coded in C with parts in assembler for efficiency.

What is FrexxEd?  
=====

FrexxEd is an advanced, highly customizable, extensible, real-time, zero limitation, fully programmable, function driven full screen display editor (not a word processor) for editing text files (even though it's possible to edit any kind of file).

We say that FrexxEd is a "display" editor because normally the text being edited is visible on the screen and is updated automatically as you type your commands.

We call FrexxEd advanced because it provides facilities that go beyond simple insertion and deletion.

"Customizable" means that you can change the definitions of FrexxEd commands in many ways. For example, if you don't want FrexxEd to query if you kill a modified buffer, you can simply tell it so. Another sort of customization is rearrangement of the command set. For example, if you prefer the four basic cursor motion commands (up, down, left and right) on keys in a diamond pattern on the keyboard, you can have it.

"Extensible" and "fully programmable" means that you can go beyond simple customization and write entirely new commands (programs in the FPL language). FrexxEd is an "on-line extensible" system, which means that it is divided into many functions that call each other, any of which can be redefined in the middle of an editing session. Any part of FrexxEd can be replaced without making a separate copy of all of FrexxEd. Many of the editing commands of FrexxEd are written in FPL already; the exceptions could have been written in FPL but are written in C for improved efficiency. Although only a programmer can write an extension, anybody can use it when it's done.

We call it a "real-time" editor because the display is updated very frequently, usually after each character or pair of characters you type. This minimizes the amount of information you must keep in mind as you edit. (The term 'real-time' is, according to some, not used in its right sense here, but I think you all get my point!)

"Zero limitation" means that there are hardly no limits in amount or size in FrexxEd. Your amount of primary memory is the biggest limitation.

Every keystroke in FrexxEd invokes a function. Most keystrokes invoke the 'Output()' command which inserts the string/character stored in your AmigaDOS keymap for that key, but there is no real limit to what can be done with merely a simple keystroke. If FrexxEd cannot already do it, it can be programmed by the user to do it.

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FrexxEd is not an every man text editor. It's for people with a large customizable need, brains and more than a 512KB or 1MB floppy system.

FrexxEd is ShareWare, coded with the intension to give the world a superb editor to everyone for a low price.

Who made FrexxEd?

=====

FrexxEd is written, designed, programmed, tested, organized, engineered, invented, mixed, composed and debugged by Daniel Stenberg and Kjell Ericson with additional concepts and design by Björn Stenberg.

We had help from Linus Nielsen who have coded certain parts of the huge project.

A lot of people have contributed in one way or another. The most important and those we remember are mentioned in the 'thanks' section.

We started our computer career on the Commodore 64 with coding demos in the year of 1987 and in July 1988 we gathered a few friends and started the group Horizon. We achieved a lot of success and popularity on the 64 for a few years and eventually we took the step upwards to the Amiga. Our only Amiga demo released (coded by Linus Nielsen and Jörgen Gustafsson) is called "Virtual Intelligence" and got very good reviews.

We produce our software together under the FrexxWare label.

FrexxEd is the first product of this dignity and size from FrexxWare. In the future, we will probably, and hopefully, bring more Frexx quality stuff to the public; everything from very large projects down to small but useful utilities.

We all work as professional programmers in different companies.

We also run a BBS.

Why make FrexxEd?

=====

The work with this originally begun, in the late autumn 1991, because I got tired of the large amount of editors on the Amiga that lack many useful functions, have too many bugs (and then especially our favorite one) and not the least because it is an interesting programming project. Kjell was not hard to convince that this is a project worthy putting some time in.

It has also been a very good way to learn the Amiga system. Originally we didn't know much about how to make anything in this editor, but we have dig in manuals, searched through books, asked people and guessed the answers to the big secrets of Intuition, Exec, RawKeyConvert() and all our other "friends" that cooperate in FrexxEd.

God only knows when we'll find our work complete and finished.

Why use FrexxEd?

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We give you almost every feature found in any other editor on the market, and if you by some reason would like to extend or modify the collection of commands, we give you (through FPL) an easy way to do so.

We give you thousands of hours of programming and development, hundreds and yet hundreds of hours of beta testing, nearly a megabyte of source code compiled into hundreds of kilobytes executable.

We give you an editor which is built upon the concepts discussed by dozens of real (programming) people and designed to be an easy and comfortable editing environment for much and plenty editing, which has resulted in several concepts and ideas that haven't earlier been seen in other editors.

We give you FrexxEd and more than 500 kilobytes of detailed "online" documentation for a very fair price.

## 1.10 Bug reports

Sometimes you will encounter a bug in FrexxEd. Although we cannot promise we can or will fix the bug (we might not even agree it's a bug!), we want to hear about any bugs you encounter in case we do want to fix them.

To make it possible for us to fix a bug, you have to report it. In order to do so you must know how to recognize one and how to report it.

What is a bug?

~~~~~

If FrexxEd executes an illegal instruction, or dies with an operating system error message that indicates a problem in the program (as opposed to something like "disk full"), then it's most certainly a bug, or you're running the wrong version of FrexxEd (like: FrexxEd030 on a vanilla 68000 Amiga).

If FrexxEd updates the display in a way that does not correspond to what is in the buffer, then it is certainly a bug. If a command seems to do the wrong thing but the problem corrects itself if you run 'RedrawScreen()', it is a case of incorrect display updating.

Taking forever to complete a command can be a bug, but you must make certain that it was really FrexxEd's fault. Some commands simply take a long time. If the input was such that you KNOW it should have been processed quickly, report it as a bug. If you don't know whether the command should take a long time, find out by looking in the manual or by asking for assistance.

If a command you are familiar with causes a FrexxEd error message in a case where its usual definition ought to be reasonable, it is probably a bug.

If a command does the wrong thing, that is a bug. But be sure you know for certain what it ought to have done. If you aren't familiar with the command, or don't know for certain how the command is supposed to work, then it might actually be working right. Rather than jumping to conclusions, show the problem to someone who knows for certain.

Since AmigaDOS lacks the beauty called memory protection, memory allocated by FrexxEd might just as well get rendered by another process than FrexxEd itself! Therefore you must be sure that there is no other program multitasking

together with FrexxEd that causes the bug. Start up FrexxEd with as few of those background processes as possible and see if the suspected bug is still around.

Finally, a command's intended definition may not be best for editing with. This is a very important sort of problem, but it is also a matter of judgment. Also, it is easy to come to such a conclusion out of ignorance of some of the existing features. It is probably best not to complain about such a problem until you have checked the documentation in the usual ways, feel confident that you understand it, and know for certain that what you want is not available. If you are not sure what the command is supposed to do after a careful reading of the manual, check the index and glossary for any terms that may be unclear. If you still do not understand, this indicates a bug in the manual. The manual's job is to make everything clear. It is just as important to report documentation bugs as to report program bugs.

How to report a bug

~~~~~

When you decide that there is a bug, it is important to report it and to report it in a useful way. A useful bug report is an exact description of what commands you typed, starting with the shell command to run FrexxEd, until the problem occurred.

The most important principle in reporting a bug is to report FACTS, not hypotheses or categorizations. It is always easier to report the facts, but people seem to prefer to strain to posit explanations and report them instead. If the explanations are based on guesses about how FrexxEd is implemented, they will be useless; we will have to try to figure out what the facts must have been to lead to such speculations. Sometimes this is impossible. In any case, that is unnecessary and time-consuming work for us.

#### Example:

Suppose that you type 'amiga-o' opening the file ":gorp/baz.ugh", which (you know) happens to be rather large, and FrexxEd prints out 'I feel pretty today'. The best way to report the bug is with a sentence like the preceding one, because it gives all the facts and nothing but the facts.

Do not assume that the problem is due to the size of the file and say: "When I open a large file, FrexxEd prints out 'I feel pretty today'." This is what we mean with "guessing explanations". The problem is just as likely to be due to the fact that there is a 'z' in the file name. If this is so, then when we got your report, we would try out the problem with some "large file", probably with no 'z' in its name, and not find anything wrong. There is no way in the world that we could guess that we should try opening a file with a 'z' in its name.

Alternatively, the problem might be due to the fact that the file starts with exactly 25 spaces. For this reason, you should make sure that you inform us of the exact contents of any file that is needed to reproduce the bug. What if the problem only occurs when you have typed the 'PageUp()' command previously? This is why we ask you to give the exact sequence of characters you typed since starting to use FrexxEd.

Rather than saying "if I have three characters on the line," say "after I type '<ENTER> A B C <ENTER> <C-p>'," if that is the way you entered the text.

Check whether any programs you have loaded into the FPL world, including your 'FrexxEd.default' file, set any variables that may affect the functioning of FrexxEd. Also, see whether the problem happens in a freshly started FrexxEd without loading your 'Frexxed.default' file (start FrexxEd with the 'OMIT' switch.) If the problem does NOT occur then, it is essential that we know the contents of any programs that you must load into the FPL world in order to cause the problem to occur.

If the problem does depend on an init file or other FPL programs that are not part of the standard FrexxEd system, then you should make sure it is not a bug in those programs by complaining to their maintainers first. After they verify that they are using FrexxEd in a way that is supposed to work, they should report the bug.

If you can tell us a way to cause the problem without opening any files, please do so. This makes it much easier to debug. If you do need files, make sure you arrange for us to see their exact contents. For example, it can often matter whether there are spaces at the ends of lines, or a newline after the last line in the buffer (nothing ought to care whether the last line is terminated, but tell that to the bugs).

Amigas and AmigaDOS exist in extremely many different configurations. When reporting a suspect behavior, include information such as Amiga model, OS version, amount of memory (both chip and fast) and all other useful data such as processor, MMU and co-processors (I advise you to simply include the output made with Sysinfo or any equivalent program). Also make sure you always include the version number of the FrexxEd and fpl.library you are using.

If you got a Mungwall or Enforcer (or an equivalent debugging tool) hit, include the output.

Send bug reports to us by mail (electronic or snail), on our bulletin board or by calling us voice (most preferably by electronic mail).

Once again, we do not promise to fix the bug; but if the bug is serious, or ugly, or easy to fix, chances are we will want to.

## 1.11 Distribution rules

FrexxEd and all files in the FrexxEd package (except reqtools.library) are Copyright © 1992–1995 by FrexxWare and are, as stated earlier, delivered on "as is" basis without warranty of any kind.

You may copy and distribute verbatim copies of FrexxEd – the executable, the utilities and the documentations – to anyone you want in any media, provided that these files really remain unmodified (this does not include registered keyfiles, which are personal and may never be copied, given away or sold).

You may not by any cause make any changes to any of these files and if you decide to redistribute this package, make sure all files from the original package are included.

You may not by any cause take any fee when copying this, but the pure cost of the media, without special permission from the authors. I hate to see all

---

those Freely Distributable programs sold for profit. I don't want anyone but the coders to get money for this project.

You may not include FrexxEd in any commercial product without special written permission from the authors.

You may not reuse parts of this package, nor disassemble, decompile, resource or in any way reverse engineer the programs.

FREXXED IS SHAREWARE and you must, if you are still using it after a short initial (two-three weeks) testing period, pay the shareware fee! FrexxEd has been developed (and still is) for hundreds and thousands of hours. We keep spending a significant amount of time and money in the project and you support the evolution by showing respect to our simple demands.

Registration also ensures your own copy of the very latest FrexxEd - the executable, documentations and future supporting programs (and other Frexx freely distributable software).

Registered users will receive a keyfile that will enable a few things that has been disabled in the evaluation copy of FrexxEd.

Register by sending 200 Swedish crowns and your name and address to us. See the 'Registration' chapter.

By showing respect to these few and simple rules, you'll secure the future updates and releases of FrexxEd.

## 1.12 FrexxEd file tree details

When installing FrexxEd, a large amount of files are copied and a few directories are created. Here follows some short description texts that describes what the files and directories are for:

| Name       | Description                                                                                                                                                                                                                                                                                                                 |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ----       | -----                                                                                                                                                                                                                                                                                                                       |
| Fred       | FrexxEd executable file                                                                                                                                                                                                                                                                                                     |
| Freds      | FrexxEd frontend program, uses the ARexx program stored as Rexx/FrexxEdStart.rx.                                                                                                                                                                                                                                            |
| bin/       | Binaries to use with or without FrexxEd.                                                                                                                                                                                                                                                                                    |
| ~~~~~      | ~~~~~                                                                                                                                                                                                                                                                                                                       |
| FrexxKey   | Hotkey commodity program. By running this program, you can assign any AmigaDOS command line to any hotkey sequence.<br>Example: 'FrexxKey HOTKEY "lamiga f" SYSTEM FrexxEd:fred'<br>(FrexxKey is written by Daniel Stenberg and is Copyright (C) by FrexxWare 1994. Freely distributable for non-commercial purposes only.) |
| Ftool2.lha | FrexxTool archive. This archive contains the 'FrexxTool' program written by Linus Nielsen/Daniel Stenberg. FrexxTool opens up a window full of buttons on specified screen and performs actions when the buttons are pressed. A beautiful way to add button-activated actions to FrexxEd. Docs and                          |

examples is included in this package.

startfred Executable file that uses the Rexx/FrexxEdStart.rx script to load files into a running FrexxEd. Useable when used as default tool for icons and more.

startfred.c Source to the above mentioned program.

ETags.lha ETags package. This package contains essential stuff if you plan to use the ETags.FPL program. I'd say this package is a dream to any programmer using FrexxEd!

AGgrep AmigaGuide grep. This program is used to generate the file SimpleHelp.FPL uses.

AGgrep.doc Short text describing 'AGgrep'.

FPLdb FPL debugger. Very useful when trying to get your troubling FPL programs to run as you want them to run!

FPLdb.doc Short documentation to FPLdb.

catalogs/ If the executable 'fred' was selected to get put in FrexxEd: there will be a catalogs directory here holding those catalog files selected to get installed.

~~~~~

#? If you miss your native language and would want to add such a catalog to the FrexxEd package, get in touch!

docs/ FrexxEd documentation directory.

~~~~~

FPL.README This text describes shortly what FPL is.

FPLuser.guide Amigaguide documentation copied from the FPL package. It features all details in how to program FPL. Variables, functions, syntaxes, keywords, expressions, statements, strings, comments, restrictions, features and much more.

FrexxEd.FAQ Frequently Asked Questions regarding FrexxEd. This file answers to the most frequently asked questions about FrexxEd!

FrexxEd.guide This amigaguide file. Holds all information about using FrexxEd in a general way. Additional information is found in the other two .guide files included here, and there are also links in this file to both of those.

Functions.guide Amigaguide documentation holding the function reference. When you want to know what kind of parameters, return type or detailed description of a FrexxEd function for FPL programming, this is where you find it!

Mailing.doc Short, detailed text describing how to subscribe to the FrexxEd mailing list.

Register.form Fill out this form and include when you send your registration request to us.

FPL/ This directory contains all FPL programs that we include in the distribution package.

~~~~~

#?.FPL Runnable FPL programs.

#?.README Description files for the FPL programs with the same names but without the '.README' extensions. See the chapter Documenting FPL programs.

Icons/	Directory that holds the extension sensitive icon images that FrexxEd will use when creating icons for files. For details, see the File handling chapter.
Macros/	Directory that by default holds the macros saved from within FrexxEd. (The SaveMacro() function in MacroIO.FPL)
Projects/	Directory that by default holds the project files saved from within FrexxEd. (The SaveProject() function in LoadSaveProject.FPL)
Startup/	Directory in which you should put all FPL programs that should get executed at startup, and all macros that should get defined at startup. The FPL programs must end with '.FPL' and the macros with '.macro'.
Rexx/	Directory that holds all FrexxEd's ARexx scripts. ~~~~~
FrexxEdStart.rx	Script that can read a specified file into an already running FrexxEd, and optionally even wait until that file is killed.
FrexxEdToFront.rexx	Brings FREXXED.1's window/screen to front.
Deiconify.rx	Deiconifies FREXXED.1.
ShowFPL.rx	Tool that simplifies the selection of which FPL programs to use in your startup!

1.13 How to reach us

For private matters/discussions/questions, drop us a private mail at our own:

The Holy Grail, +46-(0)8-6121258 (FidoNet 2:201/328).

Problems with FrexxEd, the utilities, FPL, bug reports or stuff related to that are dedicated to the public echo mail message areas or the frexxed mailing list; making it possible for everyone to share, learn and participate.

We're available voice on the following numbers:

Daniel	+46-(0)8-4705855
Kjell	+46-(0)8-870493

Email at:

Daniel	Daniel.Stenberg@sth.frontec.se
Kjell	kjer@pki.philips.se

Old style mail address:

Daniel Stenberg	Kjell Ericson
Ankdammsgatan 36, 4tr	Härjedalsgatan 40, 1tr
S-171 43 SOLNA	S-162 23 VÄLLINGBY

SWEDEN

SWEDEN

1.14 Ideas

The ideas of FrexxEd come from a lot of different editors for Amiga, MS-DOS, OS/2 and UNIX (but certainly not VM!) that have user configuration options, fancy functions and useful script languages.

The ones that have inspired us most are:

- * GNU Emacs (under UNIX). From which I have stolen the FPL idea almost entirely, even though Emacs uses LISP and we use FPL... (I use(d) GNU Emacs/Epoch almost every day at my work on IBM and now on Frontec, and I just love it!)
- * GNU Emacs (on Amiga). Which indeed IS a neat editor but it's too much of a UNIX port and therefore doesn't use the best features of Amiga.
- * QEdit under MS-DOS. Having that cute little configuration program to redefine the actual .EXE file!
- * The Lattice Screen Editor (5.10). Having all major function keys definable. The SAS editor (6.0) even more.
- * Cygnus Editor v2.12. My favorite editor on amiga before FrexxEd, even though it includes some VERY annoying bugs and weird concepts. Has been updated, yes, but not enough in my opinion! Expensive.
- * Uedit v4.0. Which do include some kind of script language too, but the editor itself made me want to puke!
- * Turbotext. Which everybody I talk to speaks well about. I don't like it but have got some interesting views in how to solve different problems by watching it. (It's also a VERY expensive editor...)
- * Tked and other (lousy) shareware editors on the Fish-disks really give me the creeps. (Unregistered versions, I know.)
- * Edge, a late competitor. Seems to be able to do a lot. Commercial, with a huge price tag without enough motivation.
- * GoldEd. Another late competitor. No tabs, no undo, no decent block-marking. Yet people seem to like it... ?

... and many, many more editors that we've been testing through our years with computers (the majority have turned out to be more or less worthless). They've all learned us something: good editors are rare... We try to put all the best parts into one: FrexxEd.

We aren't at all alone. All since the very first day I told my friends for the first time we were coding on FrexxEd, we have received hundreds and yet hundreds of opinions about how really awesome editors should work. Thanks a *LOT* to everyone who has helped us with ideas and constructive criticism (like: "Ha ha ha, it BUUUUUUGS!!!").

If you have any ideas of modification of current FrexxEd function or perhaps a brand new idea, don't hesitate to contact one of us. FrexxEd is a living project and NEW IDEAS ARE ALWAYS WELCOME.

(I bet you've already asked yourself a few times where the hell we got the idea of such a name as 'FrexxEd'. The keyword 'Ed' explains itself and the word 'Frexx' originally comes from an internal joke between members of Horizon and has spread among our friends as a word for cool/good/groovy or something like that!)

1.15 Installing FrexxEd

FrexxEd comes with documentation files, registration form, FPL programs, locale catalogs, libraries and more...

Installing all this on your harddrive is done through workbench by double-clicking on the 'install_<language>' icon (where <language> is your preferred language), and through CLI by entering: "install_<language>.sh" in the FrexxEd directory. That installation procedure uses the Commodore-Amiga standard installation program 'installer'.

If you by some reason do not have that installer program, copy all files recursive manually to your destination directory, copy the libraries to LIBS: and add "assign FrexxED: <destination directory>" to your user-startup file.

1.16 Registrating FrexxEd

FrexxEd is "Shareware". That means FrexxEd is copyrighted and that all users still using FrexxEd after an evaluation period of maximum three weeks, must pay the shareware fee and become a registered user.

The evaluation version of FrexxEd is not the complete editor. Registered users will be shipped a disk with the latest FrexxEd package and a personal keyfile that after installation improves FrexxEd and removes the few cripples inserted. There might also be other things added to the registered package that will never be included in the evaluation version.

Register by sending 200 SEK, 40 US\$ or 65 DM to:

Daniel Stenberg
Ankdammsgatan 36, 4tr
S-171 43 SOLNA
Sweden

Danish users have an optional registration address and currency!

Fill out the registration form included in this package and put it in the envelop you send.

The registration is considered done when we have received your money and your registration form.

Registration is only available at this cost to private persons as a single user license. Each user that wants to use FrexxEd must register. Commercial or company interests are treated separately and requires written permission.

Using your keyfile, you will be able to use FrexxEd version 1 and all its forthcoming updates as a registered user. Registered users of version 1 will get cheaper registration fees when/if version 2 eventually arrives.

Registration does not mean that we will send you all forthcoming updates. Registration means that you have the right to use all FrexxEd version 1 releases. When you register you will always get the latest version, but after that, you will have to ask us for updates or download them from your local BBS/ftp site. To get a single update on diskette, we will have to charge you for our extra expences.

Electronic mail replies is prioritized, preferred and will anyhow of course return much faster! (FidoNet: 2:201/328, email: Daniel.Stenberg@sth.frontec.se)

Functions that are not fully working without the keyfile are documented in the function reference with the CRIPPLE keyword followed by closer descriptions.

KEYFILES ARE PERSONAL! THEY MAY NOT BE RE-DISTRIBUTED, RENTED, SOLD, GIVEN AWAY, COPIED, REVERSE ENGINEERED OR IN ANY OTHER WAY LEAVE YOUR POSSESSION. IT SHOULD REMAIN AT YOUR PLACE, USED BY NONE BUT YOU.

We reserve the right to take precautions if we find out that any of the above stated rules have been broken or ignored.

Contacting us is the only way to obtain a keyfile. No other keyfiles are valid as shareware licenses for FrexxEd.

We reserve the right to drop development at any time, without any notice.

NOTE:

Your name will be present in the keyfile, allowing us to trace the source of illegally copied keyfiles...

1.17 Danish Registration information

FrexxEd registrering i Danmark =====

Det er fra FrexxEd version 1.5 blevet lidt lettere at registrere FrexxEd i Danmark. Samtidig med den sædvanlige registreringsmetode (direkte ved Daniel eller Kjell i Sverige) kan du nu nøjes med at flytte rundt på penge inden for landets grænser.

En registrering i Danmark er gyldig på lige fod med en registrering i Sverige. Den eneste forskel ligger i metoden, og dermed i, hvor besværligt det er for dig!

Det foregår på følgende måde: Penge og registreringskort holdes i Danmark.

Din key-file tilsendes direkte fra Sverige - evt. via Email.

Nedenstående priser gælder kun når den svenske krone ligger i kurs 85 eller derunder! Dette dokument vil blive ændret ved hver FrexxEd version, så det reflekterer den korrekte kurs. Hvis kursen ligger over, eller hvis du er i tvivl, så skal du være velkommen til at ringe til mig (se nedenfor).

Du kan betale på een af følgende måder:

- o Ved at sende en crosset check på 170 DKr sammen med registreringskortet. Checken skal være udstedt til mig (se nedenfor).
- o Ved at indsætte 170 Dkr på min konto i Jyske Bank, kontonr. 7253-0004503585.
Send en kopi af kvitteringen sammen med registreringskortet.
Hvis du flytter pengene vha. Tele-Info eller lignende, skal du være opmærksom på, at du måske ikke automatisk får en kvittering!
Vær opmærksom på, at din bank måske vil opkræve et gebyr for overførslen.
Dette kan undgås ved personligt at indsætte pengene i en Jyske Bank.
- o Ved at sende 200 DKr i sedler sammen med registreringskortet.
Pak sedlerne ind i mørkt papir så de ikke kan ses igennem konvolutten.
Bemærk, at det sikkert vil være billigere at få lavet en check!
Jeg tager *intet* ansvar for breve der forsvinder i posten! - Overvej igen en check =)

Send betaling og udfyldt registreringskort til:

Jesper Skov
Sallingsundvej 47, st th
9220 Aalborg Ø

Hvis du har spørgsmål, er du velkommen til at ringe til mig:

98155062 (kl. 18-21)

Email: jskov@iesd.auc.dk

/Jesper

1.18 Cripples in FrexxEd

An unregistered FrexxEd features a few limitations/actions:

- * No file longer than approximately 60KB can be loaded into FrexxEd.
 - * The export to clipboard function (StringToClip()) is missing.
 - * An information requester will appear after a certain number of actions.
-

1.19 FrexxEd requirements

FrexxEd requires

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- \* AmigaDOS 2.04 Exec, Intuition, Dos, etc, etc...
- \* fpl.library version 12 (For all FPL-programs. Copyright © by FrexxWare.)
- \* reqtools.library version 37 (For all requester handling. Do use the V38, it's wonderful! Copyright © by Nico Francois.)

FrexxEd could use

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- * powerpacker.library version 20 (To pack/unpack powerpacked files. Files with ".pp" extension automatically get packed when saved and all packed files get unpacked when loaded if powerpacker.library is present. Copyright © by Nico Francois.)
- * xpkmaster.library version 1 (To pack/unpack xpk files. Copyright © by U. Dominik Mueller and Bryan Ford.)
- * xpkXXXX.library version ? (Special algorithm xpk-libraries! Copyright © by their authors.)

FrexxEd hardly works on systems featuring 512KB, and less are entirely out of the question!

FrexxEd can be run on systems without hard drives, but extensive use of its powers can not be done without fast access to stored data = hard drive.

1.20 Starting FrexxEd

After you have installed FrexxEd, make sure your system path includes the FrexxEd executable directory.

Type "Fred<enter>" on the shell command line or double click on the FrexxEd icon to start FrexxEd.

To make start a new editing session using an already started FrexxEd, you can start the program 'startfred' that is in the FrexxEd:bin/ drawer.

FrexxEd accepts a lot of command line/tooltype options.

When used from shell:

```
Fred [BACKDROP] [COPYWB] [DIRECTORY <dir>] [DISKNAME <name>] [INIT <file>]
[OMIT] [PORTNAME] [PRIO <num>] [SCREEN] [STARTUPFILE <file>] [WINDOW [?]]
[ICONIFY] [FILE <file>] [ [file1] [file2] [...] ]
```

When used from Workbench they are all entered as regular tooltypes.

The options are as follows:

BACKDROP Open FrexxEd in a backdrop window!

COPYWB	Open FrexxEd with the same height, width, font and other species of the workbench screen. Overrides the init file.
DIRECTORY	Default directory.
DISKNAME	Sets the name of the mounted filehandler.
EXECUTE	Executes the specified file as a FPL program after the startup procedure.
FILE	The following parameters are file patterns. If you are using more keywords than 'FILE', they must be written to the left of it.
ICONIFY	Makes FrexxEd start up in iconified state. As an appicon on the workbench window; doubleclick to deiconify.
INIT	Makes FrexxEd use the specified file name instead of the default init file.
OMIT	Ignores searching for, and executing, any init file. Makes the startup a little bit faster.
PORTNAME	Set the ARexx port name of FrexxEd. If the given name isn't unique, FREXXED.<num> will be used.
PRIO	Makes FrexxEd run with given priority.
PUBSCREEN	Makes FrexxEd open its screen as a public screen using the specified name. Default name is the same as the ARexx port name.
SCREEN	Open FrexxEd as a screen. Overrides the init file.
STARTUPFILE	Makes FrexxEd use the specified startup file instead of the one specified in the init file.
WINDOW	Open FrexxEd as a window. Overrides the init file.
?	A short text is presented describing the usage shortly.

FrexxEd also support wildcard file openings, which means that if you start FrexxEd with e.g. "Fred #?.c", all files in the current directory with the suffix ".c" will be loaded into memory in one buffer each.

If you'd like to edit a file with the same name as one of the keywords, you have to write FILE <file name>.

1.21 Loading files into a started FrexxEd

If you already have one copy of FrexxEd of memory running, you don't have to start another one when you want to edit a file through by kind of automatic editing.

Like when your favourite program wants to use an external program to edit a file, or when you set the tooltypes of your project icons.

How

~~~

'startfred' is the name of a program in the FrexxEd:bin/ directory which will load the file names specified into a running FrexxEd. 'startfred' can very well be used and specified as default tool in a project icon as well as external editor in programs like Directory Opus, DiskMaster and similar.

'startfred' accepts a command line option called 'STICKY' which then makes the program wait until the file(s) loaded has been quit/killed in FrexxEd.

Thanks to Mikael Säker for making this program!

Details

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'startfred' uses the ARexx program called FrexxEd:Rexx/FrexxEdStart.rx which also can be used stand-alone, but then not as i.e default tool.

'FrexxEdStart.rx' connects and uses only the FrexxEd running with ARexx port called 'FREXXED.1' - in normal cases the first copy started.

Thanks to Nicolas Dade for his extensions of the mentioned ARexx program.

1.22 FrexxEd support

WWW-page

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Get the latest FrexxEd and FPL versions, or read the FrexxEd manual online on the WWW-page at [HTTP://www.lysator.liu.se/~matax/Main.html](http://www.lysator.liu.se/~matax/Main.html). This page is organized and taken care of by Mathias Axelsson.

Bulletin Board System

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The FrexxEd support BBS (The Holy Grail) is a 24 hour, dual line, 2 Gigabyte bulletin board on which you can get in touch with the authors.

Problems, questions, discussions, thoughts, dreams, ideas, complaints, visions or whatever you want us to know about or want us to tell you about, are all having especially dedicated public mail areas. The FrexxEd mail area is distributed as a standard FidoNet echo mail area and is available for everyone interested ('FREXXED')!

FrexxEd might not always be as easy to use as other editors on the market. We will be there with the answers to your questions. Hopefully that fidonet talk will go international.

The latest executables, news, docs and utilities are available for download. There are areas containing FPL routines wherein you can upload your own FPL creations.

Mailing list

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For people outside of Sweden (but Swedes are welcome too!), we'll a keep

mailing list for FrexxEd discussions and bug reporting.

You can subscribe or unsubscribe to the 'frexxedm' mailing list by sending email to -> frexxedm-request@aobh.xs4all.nl. <-.

The commands understood by the ListSERV program are:

HELP

Lists this file. This is also sent whenever a message to ListSERV is received from which no valid command could be parsed.

ADD [address] frexxedm

DELETE [address] frexxedm

Adds or deletes the given address to or from the list specified. Mail is sent to the address given to confirm the add or delete operation. If you omit the 'address' the command will assume the mailbox that is in the From: line of the message. Note that SUBSCRIBE is a synonym for ADD; UNSUBSCRIBE for DELETE.

A command must be the first word on each line in the message. Lines which do not start with a command word result in this file to be sent. If no commands were found in the entire message, that message is completely ignored. A single message may contain multiple commands; some commands may result in a separate reply (namely FAQ, HELP) while others will just write something to the logfile. You will always receive a response to any command found in the mail.

One short example:

To: frexxedm-request@aobh.xs4all.nl  
Subject:

ADD myaddress@mysite  
FAQ

will add myaddress@mysite to the "frexxedm" and send the FAQ back in return.

Please note that it IS possible to add or delete someone else's subscription to a mailing list. This facility is provided so that subscribers may alter their own subscriptions from a new or different computer account. There is therefore some potential for abuse; I have chosen to limit this by mailing a confirmation notification of any addition or deletion to the address added or deleted including a copy of the message which requested the operation. At least you can find out who's doing it to you.

Note that you mail submissions to a mailing list by addressing mail to the list's name at this site (e.g., frexxedm@aobh.xs4all.nl). If you have any questions or need assistance, you can send email to postmaster@aobh.xs4all.nl for a human answer.

Yours sincerely,

Michiel Willems (Coordinator/moderator of the frexxedm mailing list)

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Private mails

~~~~~

Of course we can correspond in private mails, but then other people who have the same question(s) as you do won't get any answer(s), and we'll have to answer to the same question(s) more often!

1.23 Thanks to...

Thanks for ideas, moral and physical support, good software and decent documentation go to:

My girlfriend...

Anja Zettinger - Who puts up with me coding all these hours. FrexxEd demands *many* hours of coding... She has also helped me to remove some of my worst abuses of the English language in this manual, and by simply existing, she constantly reminds me that life is wonderful!

...our co-programmer...

Linus Nielsen - Old friend, bugs, plenty brainstorming ideas and not the least: he made most of the filehandler coding!

...FREXXED and R20_FPL (fidonet message areas) organizer..

Björn Stenberg - My brother!

...frexxedm coordinator (the mailing list)...

Michiel Willems - Dutch believer in the cause!

...our code enhancer...

Jesper Skov - Also a very frequent bug reporter and an idea source very few can match! Many FPL programs too...

...our contributors...

Mikael Säker - Brought us 'bin/startfred'!
 Björn Reese - For the 'bin/Barfly2Msg' and Assemble.FPL.
 Nicolas S Dade - For the 'icons/.appicon.info' and AppQuery.FPL fix.
 Niklas Angare - FlipComment.FPL
 Carsten Orthbandt - MHead.FPL, FACT_IBM.FPL and more! Also brought us lots of ideas to implement!
 Peter Carlsson - Devpac.FPL, FileType.FPL, ...
 Volker Güth - For the wordwrap alternative and for taking over the German translations...
 Bill Beogelein - Unbelievable amounts of ideas and suggestions...

...the registered FrexxEd users...

We wouldn't be so keen on continuing to make these updates if it weren't

for you!

...some of the best beta testers in alphabetical order...

Mathias Axelsson -	FPL user and AmiNet uploader. Holy keeper of the FrexxEd WWW-page. Thanks for the ETags source.
Stefan Boberg -	A4000/A3000, lots of reports with "strange" HW. Also thanks a lot for 'Lha' and moral support!!
Pontus Hagland -	Beta testing, FPL doubter (initially at least)!
Tommy Hallgren -	Protector of the Forth programming language... :) When will we get an etags parser?
Magnus Hjelm -	'030, concepts, ideas, complaints and reports!
Kenneth Johansson -	FPL and ARexx programming, icon drawings!
Per-Anders Josefsson -	Initial installer script.
Daniel Kahlin -	Enforcing, ideas, errors, bugs and A3000!
Per Klint -	Good friend with an Amiga 4000 without MMU.
Mathias Korsbäck -	Lots of complaining! .-)
Jonas Kvarnström -	Bugfinding, Picasso II, overscan protector!
Ola Lidholm -	Never surrenders!
Patrik Lundquist -	Got into FPL <u>really</u> fast and beautifully!
Lasse Mickos -	Author of the future FrexxEd supported library EasyUI!
Roger Nordin -	A2024 (1024 x 1024), early V39, filehandler idea and Menu.FPL conversion to Swedish!

FrexxEd wouldn't be like this without you guys!

...the translators...

Michiel Willems -	(Dutch) Thanks for making the Menu.FPL too!
Massimiliano De Otto -	(Italian) A really good work!
Rolf Kunisch -	(German) Well, you fixed it in the end, splendid!
Robert Ramiega -	(Polish) Not a standard language, but still...
Marc-Berco Fuhr -	(Danish) A nice piece of translation!
Stephane Zermatter -	(French) Thanx a lot, we needed that!

...and the software producers...

Edd Dumbill -	Author of Heddley which generated this very .guide file. Thanx for letting me use your beta versions and thereby finally complete this manual!! Drew our beautiful Magic WB icons! Great pal.
Nico Francois -	Author of regtools.library and powerpacker.library which both cooperate to make FrexxEd a better product.
Richard Stallman -	Author of GNU Emacs which has given me much inspiration and from where I have borrowed a few parts of this documentation.
Michael Sinz -	Author of the excellent tool Enforcer.
Carolyn Scheppner -	Author of the AllocMem/FreeMem patcher Mungwall.
SAS Institute -	Creators of a real fancy compiler environment.

...and finally..

IBM - Where I used to work and from where I've got lots of inspiration to the documentation. (The InfoExplorer concept under AIX is the best online help system I've ever seen...)

Frontec Railway Systems My current employer, which through its internet connection gives me much more contact and information with the rest of the [Amiga] world!

... the magazine review...

Datormagazin 5 out of 5 must be considered to be a fairly positive review, even though there were some glitches...

1.24 Things left to do...

FrexxEd Suggestions/ideas/new things

=====

FrexxEd is far from finished at this state. We develop FrexxEd constantly and we have a huge pile of ideas to implement, to code and to figure out how to code...

This is a list of what we hope to implement sooner or later. This is only things from the fantasy of us and other users of FrexxEd. Perhaps nothing of this will ever become reality, but perhaps a lot of it will...

Every idea is written alone with the name of at least one of the persons who have brought the idea to us. They are presented in a very *random* order here, without any meaning intended about which comes first and which comes last. If you have any idea or thought that is not presented here, write us a line and tell us about it!

New features/functions

=====

* Are there any info-variables (or any other way) to get values like:

- 1) The name of the function currently being executed.
- 2) The filename that #1 is located in.
- 3) The current line # within the function.
- 4) The current line # within the file.

5) The last keystroke that was hit (regardless of how long ago).

Bill

* > Replace(1, "x", "y", "bwf+");

Shouldn't that only be effecting the current marked-block, and nothing else?

Bill

- * Is there anyway to make the buttons that appear in Request() have keyboard equivalents? Underscore-marking gadgets have been a standard part of the AmigaOS for ages now.

Maybe something with like:

```
Request("My Text", "My Title", "_Many | Ma_ybe | M_ost | M_line | _All"
```

Bill

- * Whenever there's an error in my FPL code that is loaded at startup, I get the "Error at Line 186 of Path:FileName.FPL" requester. Is there a way to change that into a "LOAD" "CONTINUE" requester?

It would load the exact offending file, it would jump down to the offending line#, and we could edit it right then and there.

Bill

- * Is there a way for me to use RequestWindow() and create a list-view gadget but WITHOUT the string gadget underneath? (Perhaps a future release will allow the removal of the string-gadget. Perhaps by specifying a default &int instead of a default &string. After clicking OK, that int will contain the number of the choice picked.)

Bill

- * I considered using 20 checkmark-gadgets, but I can't figure out how to mutually exclude. (Perhaps a future release will allow an additional int parameter for checkmark-gadgets. Whichever bits are set, will mutually exclude those similarly marked checkmark-gadgets.)

Bill

- * How about making two global (uh, exported) variables containing the Customizing->Program position?

Jesper Skov

- * Something like "\$*'changes'?C: " to make your own changes-flag on the status line...

Daniel Stenberg

- * for the status line / window title :
Add functions like:
TitleCheck() and StatusCheck().
They would wait for a mouse-click in the titlebar and status-line.
(Titlebar or status-line dragging would NOT count as a click.)

The 2 functions would return the column # that the user clicked at.

We could set-up our status-line display to show the "cCiIbBmMpP" flags. Clicking on them would toggle them.

Bill Beogelein

- * replacing all occurrences start to finish?
do I have to save the line/column position myself, move to the top, do the replacing, and move back to the old line/column position? Which won't be where it was anyway because an unknown # of lines/characters have now been added and removed. So how is that done? A "G" flag would do it all.
(I.e, do not just search from current position)

Bill Beogelein

- * Is there any way for me to save the size (and position) of a zoomed-down window? Without that feature I always have to move and/or resize the window after zooming.

Maybe 4 new info-variables could be added to a future release:

zoom_height
zoom_width
zoom_xpos
zoom_ypos

Bill Beogelein

- * Maybe someday you'll consider adding an optional additional 4th parameter:
AssignKey("MyFuncIfTrue();", "'F4'", "changes", "MyFuncIfFalse();");

Bill Beogelein

- * More than one block marked at the same time. With different colors.

Bill Beogelein

- * "reversed" blocks. Using the same bitplane as the text.

Bill Beogelein

- * The screen/window title bar may hold an info string for the active buffer - that is, when the active buffer is changed, the title text is changed to the string of that buffer....

Jesper Skov

- * Ability to recognize left/right amiga key presses.

Bill Beogelein

- * Any chance of ever supporting a "Line Mark" along with the character and column marking modes?

bnystrom

- * Make FrexxEd capable of open itself as a "real" window (as opposite to a backdrop window) on its own public screen.

Carsten Orthbandt

- * Amiga symbols in the menu when the key sequence is *only* amiga and another

key.

Mathias Axelsson

- * Slider gadgets in request windows

Carsten Orthbandt

- * Independent cursor move 'layout' style, no stop at eol

Carsten Orthbandt

- * ability to Change status line bg pen

Carsten Orthbandt

- * I want the ability to lock the status display. If I display any text in the status line, it disappears immediately.

Carsten Orthbandt

- * A option to have the status line at the top of the text.

Carsten Orthbandt

- * I would like if it was possible to read the qualifier keys. (GetKey())

Jesper Skov

- * Busy-pointer activated by FPL, so that FPL programs that know they will take some time can show it, and at the same time block the windows of FrexxEd.

Emil Brink

- * How about a "Revert" in the default Menu (in the project menu)?
(Replace the buffer's contents with the contents of the file image.)

Jesper Skov

- * Is it possible to have control codes in the text affect the output?
colour/style control of text areas

Jesper Skov, Carsten Orthbandt, Emil Brink

- * Mouse pointer blanker for FrexxEd only. Without affecting the rest of the system.

Håkan Svensson

- * "Save & Quit" in the menu, in the style of CED.

Lars Magnusson

- * Folds!

Emil Brink, Peter Carlsson, Jorgen Larsen and a lot of others!

- * Idea to fix problem with big promptinfo windows: Only allow one row of infos... Add "prev" and "next" gadgets in the bottom to switch between different info vars (different columns as it is now)

Jesper Skov

- * FrexxEd as commodity!

Mikael Säker

- * When there is one FrexxEd running, and another one is started (with a file as parameter), the first FrexxEd will get an exception specifying the file name as parameter, and then the second FrexxEd won't have to get started!

Mikael Säker

- * "lock" line numbering. Making insertion/deletion after compiler errors not change the line numbers...

Niklas Larsson

- * Better [programmable] status line control

Jesper Skov and others

- * Reset colors should reset them to the "last saved" state, *NOT* the WB-colors

Mikael Saker

- * Add variable description to the CreateInfo() function!

Magnus Holmgren

- * Horizontal slider option.

Mikael Berglund

- * Move rectangular block. Text to the right of the block's left margin should be moved, the text on the left side should be left alone!

Mikael Berglund

- * SMART_REFRESH window

Tommy Hallgren

- * more native string routines! upper/lower case string would be nice. And right, left. Have a look at the string support in ARexx and make me happy

Jesper Skov

- * Images for Amiga, Alt and Control in the menu shortcuts!

Torsten Stolpmann

- * Why not have an own window for local/global user-defined variables?
(And the system ones have their own window(s))

Bjorn Reese

- * "Nicer GUI"

Michiel Willems

- * Clock on title bar

Michiel Willems

- * Free tab positions with `_real_` tabs.

Jesper Skov

- * Can I make the scroller not as wide. it is too wide at the moment and it would be nice to be able configure it under 'display'.

Edd Dumbill

- * CON: in a FrexxEd buffer!

Jesper Skov

- * ELisp to FPL converter

Jesper Skov

Ideas still left, brought by ourselves or beta testers...

- * Option to start the FrexxEd window on the frontmost screen at startup.
 - * Enable the function like `KeyPress("alt a");` to emulate an actual "alt a" press!
 - * Mark rectangle should not be limited by the last line's length
 - * Arrows on the sliders
 - * Custom buttongadgets on the status lines or perhaps only on the top of the window
 - * Multi-window FrexxEd
 - * Ability to split buffers horizontally
 - * Much more internal multitasking, "multithreading". Ability to activate e.g `about()` and when the window is still visible be able to scroll and edit the buffers.
 - * Better memory handling. Store buffers in a new/enhanced way
 - * The FrexxEd: filehandler. Access all files within FrexxEd through it. Both read and write.
-

- * File notification support. Warn when a buffer's file gets changed on disk!
- * Make resizing of a view squeeze the other smaller, instead of just let you drag the new view over the old ones.
- * Enable better possibilities to control the undo. Make FPL programs that do a lot of changes marked as ONE undo-step.
- * FrexxCON:, do a "newshell FrexxCON:" to get a shell in FrexxEd buffer!
- * Ability to edit files much larger than the internal memory by loading parts of it. (Caching of the most frequent viewed areas?) A homebrewed virtual memory system!
- * FrexxEd version using the current window, moving with escape sequences on standard out and using key input from standard in. Modem supporting kind of stuff. (FrexxEd as full screen editor in BBS programs?)
- * Ports to UNIX/Xwindows and OS/2.

1.25 Warranty

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY REDISTRIBUTE THE PROGRAM AS PERMITTED BELOW, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

1.26 Block concepts

There are many FrexxEd commands which operate on an arbitrary contiguous part of the current buffer. To specify the text for such a command to operate on, you set "the block start" at one end of it, and move the cursor to the other end. The text between the cursor and the mark is called "the block". You can move the cursor to adjust the boundaries of the region. It doesn't matter which one comes earlier in the text.

Once the block start has been set, it remains until it is set again. The mark remains fixed with respect to the preceding character if text is inserted or deleted in the buffer.

For example, if you wish to convert part of the buffer to all upper-case, you can use the 'UpCase' command, which operates on the text in the block. You can first go to the beginning of the text to be capitalized, type 'amiga-b' ('BlockMark') to put the block start there, move to the end, and then invoke 'UpCase'. Or, you can set the block start at the end of the text, move to the beginning, and then invoke UpCase().

Beside the common block there is also a rectangular block. The rectangular block affect rectangular areas of the text: all the characters between a certain pair of columns, in a certain range of lines. Rectangular blocks are useful with text in multicolumnar formats, such as perhaps code with comments at the right, or for changing text into or out of such formats. All commands works just as well on a rectangular block as on a common one.

Block operations such as BlockCopy() and BlockSave() affects the currently marked block if there exists one (without changing the current default "block buffer") and on the "block buffer" if there isn't.

FrexxEd supports an unlimited number of blocks.

Blocks, Buffers and Macros =====

FrexxEd has a unique block concept. All existing blocks are simply buffers, but by having a little "block bit" set (in the local info variable 'type'), they don't appear in regular editing. (Macros are in the same way buffers, but with another bit set!)

By having the blocks stored and visible like that, all functions that handles buffers can likewise handle blocks (and macros). Blocks can be edited like regular buffers and buffers can be inserted as if they were blocks!

There are two named block buffers by default that might be of your interest. The first one is called "DefaultBlock" and is the buffer to which all regular block operations will send the text if no special block buffer is specified. "YankBuffer" is the name of the block buffer to which all functions that appends text to the yank buffer add text to.

Operating on the block =====

Once you have created an active block, you can do many things to the text in it:

Note that all block operating functions also accept an optional block name which enables cutting of several blocks without losing the original ones and much more.

- * Kill it with BlockCut(). (It is first copied into the default "cut buffer".)
 - * Save it in the default "cut buffer" with BlockCopy().
 - * Convert case with UpCase() or DownCase().
 - * Indent it with BlockMove().
-

* Append the block to an already existing "cut buffer" with `BlockCopyAppend()` or `BlockCutAppend()`.

Viewing/editing blocks
=====

If you're using the 'Menu.FPL' menu, supplied in the default FrexxEd package, there is an item under the 'Block' title, called something like 'Edit blocks'. Select that item, and then select one of the blocks in the list that appears, and voila! There's a block to edit...

1.27 Character set

FrexxEd's way of representing ASCII characters on screen
=====

Due to the great flexibility you get by changing system font, it's impossible for an application to have proper representations for every ASCII code to every available font.

If you take a look at other text editor they all have their own way of solving this problem. GNU Emacs uses only 7-bit ASCII and symbolizes all the rest as ^@ to ^Z (from ASCII 0 to 31) and \nnn, where nnn is an octal number (from ASCII 128 to 255). CygnusEd creates reversed @ to Z to represent 0 to 31 and runs the rest as usual. Some editors just hope that the system surrounding shows the letters in a comfortable way (which it usually doesn't!).

FrexxEd solves the problem by having it customizable! By using the FrexxEd ASCII Convert Table (FACT), which among other things defines what to view for each ASCII code.

Each ASCII code holds a string and a number of different flags. The flags tell FrexxEd which kind of character the ASCII code is. The flags are not exclusive but can be combined. Several functions act according to the flag settings of the different characters.

Each entry in FrexxEd can have a different FACT. By using the `FACTCreate()` and `FACTDelete()` new FACTs can be made and removed. Change from one FACT to another in an entry by setting the 'fact' info variable to the name of the desired FACT.

Each FACT is easy changeable and editable using the `FACT()` function:

```
FACT([name], char, tags...);
```

'name' can be specified and should be if you want to change the contents/looks of a single FACT.

'char' is the ASCII number of the character you'd like to change the definition of, or one of the 'special' codes:

- 1 End Of File string
- 2 ContinuedLine string (if a line continues at the edge of the window)
- 3 Fold start character (displayed to the left of a line with fold)

- 4 Fold area character (displayed to the left of a shown folded area)
- 5 Fold margin fill character (which the fold margin will consist of)

The tags are as following:

~~~~~

- 'S', "string" - The output string. See the string format description below.
- '(', 'c' - The character is a left parenthesis that should match the character 'c'.
- ')', 'c' - The character is a right parenthesis that should match the character 'c'.
- 'W' - The character is a word symbol (abcdEFGH).
- ' ' - The character is a white space (space, tab).
- '!' - The character is a symbol (!"#%\$%).
- 'N' - The character generates a newline. (This must only be modified before any buffers are loaded into FrexxEd.) ASCII code 10 usually does this. Not combinable with the TAB flag. The output string for that character will be printed before the newline action to enable "visual end of line".
- 'T' - The character generates a tab step (as ASCII code 9 usually does). Not combinable with the 'N' tag. A TAB character will make the text to continue at the next tab stop. The space to the next tab stop will be filled up with the text of the output string.
- 'U', 'c' - The character is an uppercase with the matching lowercase 'c'.
- 'L', 'c' - The character is a lowercase with the matching uppercase 'c'.
- 'E', 'X' - Erase (clear) any of the flags 'S()W !NTUL' or all with a '-'.  
If 'S' is cleared, the default string will be set.

#### EXAMPLES

```
/* Make a reversed EndOfFile character */
FACT(-1, 'S', "#REnd of file!");

/* 'a' has only word-flag */
FACT('a', 'W');

/* Tab is white-space, performs tab and outputs space */
FACT('\t', ' ', 'T', 'S', " ");

/* To make tab output "Banana" instead */
```

```
FACT('\t', ' ', 'T', 'S', "Banana");
```

```
/* Parentheses are set like this */  
FACT('<', '!', '(', '>');
```

String format:  
=====

Zero length strings are supported. When the cursor is passing a zero length string, it will make a visual stop.

The string specified might contain characters not defined in the font. The appropriate "not-existent-in-the-font-character" will then appear instead of the wanted character, there is nothing we can do about it! If you don't want the character, change the FACT.

String controllers:

"#R" turns on reversed string for the following characters

"#U" turns on underline

"#B" turns on bold

"#I" turns on italic

"#r" turns off reverse

"#u" turns off underline

"#b" turns off bold

"#i" turns off italic

"#N" or "#n" resets to normal text.

(BOLD and UNDERLINE should not be combined, that goes for ITALIC with any other flag too.)

## 1.28 Controlling the display

Since only part of a large buffer fits in the window, FrexxEd tries to show the part that is likely to be interesting. The display control commands allow you to specify which part of the text you want to see.

If a buffer contains text that is too large to fit entirely within a window that is displaying the buffer, FrexxEd shows a contiguous section of the text. The section shown always contains the point.

"Scrolling" means moving text up or down in the window so that different parts of the text are visible. Scrolling forward means that text moves up, and new text appears at the bottom. Scrolling backward moves text down and new text appears at the top.

Scrolling happens automatically if you move point past the bottom or top margins of the window. You can also explicitly request scrolling with the commands in this section or by dragging the knob of the vertical scrollbar.

```
`shift cursor down'
    Scroll forward (a windowful number of lines) (PageDown()).

`shift cursor up'
    Scroll backward (PageUp()).
```

## 1.29 Erasing text

```
`backspace'
    Delete the character before the cursor (Backspace()).

`delete'
    Delete the character after the cursor (Delete()).

`amiga shift k'
    Kill to the end of the line (DeleteEol()).

`amiga k'
    Kill a line at a time (DeleteLine()).

`control delete'
    Kill forward to the end of the next word (DeleteWord()).

`control backspace'
    Kill back to the beginning of the previous word
    (BackspaceWord()).
```

The backspace key deletes the character before the cursor, another key, 'delete', deletes the character after the cursor, causing the rest of the text on the line to shift left. If 'delete' is typed at the end of a line, that line and the next line are joined together.

## 1.30 File handling

The basic unit of stored data on Amiga is the "file". To edit a file, you must tell FrexxEd to examine the file and prepare a buffer containing a copy of the file's text. This is called "loading" the file. Editing commands apply directly to text in the buffer; that is, to the copy inside FrexxEd. Your changes appear in the file itself only when you "save" the buffer back into the file.

Most FrexxEd commands that operate on a file require you to specify the file name. (Saving is an exception; the buffer knows which file name to use for that.) File names are specified using the file requester to make it easier to specify long file names and paths.

Each buffer has a default directory, normally the same as the directory where FrexxEd was started from. When FrexxEd reads a file name, if you do not

---

specify a directory, the default directory is used. If you specify a directory in a relative fashion, with a name that does not start with a device name and a colon (or without device name), it is interpreted with respect to the default directory.

For example, if you start FrexxEd standing in the directory named `'dh0:codingx/c/src'` and loads the file `'foo'`, which does not specify a directory, it is short for `'dh0:codingx/x/src/foo'`. `'//junk'` would stand for `'dh0:codingx/junk'`. `'new/foo'` would stand for the filename `'dh0:codingx/c/src/new/foo'`.

Detailed information in the sections:

- Loading files
- Saving files
- Icons
- Compresssion
- Encryption

## 1.31 Loading files

Loading files  
=====

"Loading" a file means copying its contents into FrexxEd where you can edit them. FrexxEd replaces the contents in the current buffer when you load a file. If more than one file was selected, the following files will be put in newly created buffers. We say that FrexxEd has loaded the file that it was created to hold. FrexxEd constructs the buffer name from the file name. If more than one buffer have the same name, FrexxEd will number them. For example, a file named `'/usr/rms/FrexxEd.tex'` would get a buffer named `'FrexxEd.tex'`. If there already is a buffer with that name, a unique name is constructed by appending `'(2)'`, `'(3)'`, and so on, using the lowest number that makes a name that is not already in use.

Each view's status line shows the name of the buffer that is being displayed in that view, so you can always tell what buffer you are editing.

The changes you make with FrexxEd are made in the FrexxEd buffer. They do not take effect in the file that you loaded, or any place permanent, until you "save" the buffer. Saving the buffer means that FrexxEd writes the current contents of the buffer into its loaded file.

If a buffer contains changes that have not been saved, the buffer is said to be "modified". This is important because it implies that some changes will be lost if the buffer is not saved. The status line displays whether the buffer is modified.

To load a file, use the command `Load()`. (With the name of the file you wish to load as argument).

If the specified file does not exist and could not be created, or cannot be read, then an error results. The error message is printed in the status line, and includes the file name which FrexxEd was trying to load.

---

What if you want to create a file? Just load it. FrexxEd prints ``(New File)'` in the status line but in other respects behaves as if you had loaded an existing empty file. If you make any changes and save them, the file is created.

If you load a nonexistent file unintentionally (because you typed the wrong file name), just make a new try and load the file you wanted.

If the file you specify is actually a directory, load will fail and display an error message in the status line.

Specifying a wildcard as a filename is quite all right. All files matching the pattern will be loaded.

Buffers names will always achieve the same case as the file has on disk when using load.

## 1.32 Saving files

```
Saving files
=====
```

"Saving" a buffer in FrexxEd means writing its contents back into the file that was loaded in the buffer. The entire path and filename will be echoed in status line when the buffer is saved.

```
`amiga w'
  Write the current buffer in its loaded file (Save()).
```

```
`amiga W'
  Save the current buffer in a specified file, and record that
  file as the one loaded in the buffer (SaveAs()).
```

After saving is finished, FrexxEd prints a message such as

```
Wrote df0:utils/foo/gnu.tasks
```

If the option `'save_icon'` is set to "always" for the saved buffer, FrexxEd will write an icon for that file. Read further below in the icons section!

If FrexxEd is about to save a file and sees that the date of the latest version on disk does not match what FrexxEd last read or wrote, FrexxEd generates an exception that can be caught, notifying you about this fact. That is because it probably indicates a problem caused by simultaneous editing and requires your immediate attention.

By default FrexxEd saves all files using a "safe save" method, which first stores the file on disk in a temporary name and then renames that file into the destination name. Switch off the global `'safe_save'` variable to force FrexxEd not to use it...

## 1.33 Icons

---



## Icons =====

When FrexxEd saves a buffer with the 'save\_icon' option set to "always", it first checks that there is no icon currently stored for the saved file. If it is, FrexxEd won't do anything about it.

If there wasn't any previous icon, FrexxEd will check the extension (the text to the right of the rightmost dot '.') of the file name, and look in the directory "FrexxEd:icons/" for an icon that matches "<extension>.info". If such a file is found, `_that_` will be copied and used. If no extension icon is used in the file name, `".none.info"` will be used.

If FrexxEd fails to load such an extension icon, `".default.info"` will be used. If that also fails, the internal icon will be used.

The AppIcon used by FrexxEd is found/used as the file called 'FrexxEd:Icons/.AppIcon.info'.

'save\_icon' can be set to 'parent', which means that FrexxEd will only create an icon for the file if the file's parent directory has an icon! It was added to FrexxEd to enable transparently having directories with files without icons and some with icons. FrexxEd checks the parent dir to find out the situation in this case! Idea from Roger Nordin.

The internal icon images (both the default text icon and the AppIcon image) are drawn by Kenneth Johansson! Thank you *\*very\** much for them, dude!!

Magic WB icons in the distribution package are drawn by Edd Dumbill.  
\*Thanks!\*

## 1.34 Compression

### Compresssion =====

FrexxEd supports the compression supported by the custom libraries 'xpk' and 'powerpacker'. To be able to use the compressions, you must have the proper libraries installed in LIBS: when FrexxEd is started.

If you have the libraries installed in LIBS: and load a packed file, FrexxEd will unpack the file when loading (if the 'unpack' setting is enabled). Packed files get their 'pack\_type' info variable set to the used type.

If the 'pack\_type' is "PP20" when a file is saved, it will be powerpacked before storage. All other 'pack\_type's will use regular XPK packing algorithms.

Loading packed files without having the libraries required installed, will make FrexxEd load the file just as it is stored on disk; most probably only a mess!

Example:  
~~~~~

We would like to pack a recently edited file with the XPK packer algorithm called NUKE. Then we make the right buffer the current one, select the menu item "Customizing->Settings->Locals" and enter "NUKE" in the 'pack_type' field, press OK and then save the buffer as usual.

1.35 Encryption

Encryption
=====

FrexxEd supports the encryptions supported by the custom library 'xpk'. To be able to use the encryption/decryption features, you must have the proper libraries installed in LIBS: at startup.

Use the local variable 'pack_type' combined with writing your chosen password in the 'password' field to write a file in encrypted form. Reading such a file will force up a requester, prompting for password. Failing to enter the proper password will make FrexxEd fail to load the file.

Loading an encrypted file without the 'unpack' info variable set will make FrexxEd load and view the binary (encrypted) data.

1.36 GUI/Workbench

As an editor running in a Graphical User Interface (GUI) environment, FrexxEd simply has to support a number of different things regarding the workbench.

- * FrexxEd is indeed startable from workbench and will read all files sent to it (when project files e.g. have specified FrexxEd as their default tool).
 - * FrexxEd accepts tooltypes with the same names and types as from the CLI command line.
 - * FrexxEd can be opened as an AppWindow, which means that it recognizes all icons dropped in the FrexxEd window. The files are as default included in the current buffer at the current position. If FrexxEd fails in opening it's window as an AppWindow it will retry every time its window is reactivated.
 - * FrexxEd can open an AppIcon, which means that all icons dropped on FrexxEd's AppIcon will be included in the current buffer at the current position. If Workbench wasn't opened when FrexxEd was first started, a new try will be done each time the FrexxEd window is reactivated. AppIcon does serve its purpose best when using FrexxEd on another screen than Workbench. 'FrexxEd:Icons/.AppIcon.info' is the one FrexxEd will try to load before using the internal.
 - * FrexxEd uses locale.library if present. If your selected language is among those we have catalogs for, you might get a great deal of all texts in FrexxEd using your own native language. If FrexxEd has no support for your
-

native language and you would like to make it have it, get in touch!

- * FrexxEd supports clipboard device communication. Cut or copy a block and then export it makes it available for the rest of the system. Using import block imports the system clipboard to the current blockbuffer.
- * FrexxEd supports mouse block marking, vertical slider dragging (with instant window updates) and mouse positioning of the cursor.
- * FrexxEd can be set to use a custom keymap.
- * FrexxEd uses two different custom fonts. All user interface parts is fully font sensitive.
- * FrexxEd allows different icons to be used when saving buffers with different extensions.
- * FrexxEd allows itself to get iconified. An iconified FrexxEd appears only as an AppIcon in the Workbench window. Doubleclick the AppIcon to deiconify FrexxEd again.
- * FrexxEd brings its screen and/or window to front if its AppIcon is double-clicked.
- * The volume mounted by FrexxEd appears just like a regular disk on the Workbench main window. Double-click on its icon to visualize the contents of the disk's FrexxEd. Move files in and out of it just like with regular disks.

1.37 Inserting text

To insert printing characters into the text you are editing, just type them. This inserts the character into the buffer at the cursor (that is, at "point"). The cursor moves forward. Any characters after the cursor move forward too. If the text in the buffer is 'FOOBAR', with point before the 'B', then if you type 'XX', you get 'FOOXXBAR', with point still before the 'B'.

To "delete" text you have just inserted, use backspace. Backspace deletes the character BEFORE the cursor (not the one that the cursor is on top of or under; that is the character AFTER the cursor). The cursor and all characters after it move backwards. Therefore, if you type a printing character and then type backspace, they cancel out.

To end a line and start typing a new one, press enter. This inserts a newline character in the buffer. If point is in the middle of a line, enter splits the line. Typing backspace when the cursor is at the beginning of a line rubs out the newline before the line, thus joining the line with the preceding line.

Customization information: backspace runs the command named 'Backspace();' enter runs the command 'Output("\n")', and self-inserting printing characters run the command 'Output(char)', which inserts whatever character was typed to invoke it.

If you prefer to have text characters replace (overwrite) existing text rather than shove it to the right, you can enable overwrite mode (by setting

'insert_mode' to Off).

1.38 Point location

To do more than insert characters, you have to know how to move point. There's always possible to move your mouse and click where you want to the cursor to be or use one of the following commands for moving it. (The default key-sequence first and the function invoked within parentheses.)

```
'cursor right'
    Move forward one character (CursorRight()).

'cursor left'
    Move backward one character (CursorLeft()).

'control cursor right'
    Move forward one word (CursorRightWord()).

'control cursor left'
    Move backward one word (CursorLeftWord()).

'cursor down'
    Move down one line, vertically (CursorDown()). This command attempts
    to keep the horizontal position unchanged, so if you start in
    the middle of one line, you end in the middle of the next.
    When on the last line of text, you won't come any further.

'cursor up'
    Move up one line, vertically (CursorUp()).

'amiga j'
    Request a number and move cursor to that line. Line 1 is the
    beginning of the buffer (GotoLine()).
    If you specify two numbers, the cursor move to the column the
    second number specify.
```

1.39 Running commands by name

The FrexxEd commands that are used often or that must be quick to type are bound to keys - short sequences of characters - for convenient use. Other FrexxEd commands that do not need to be brief are not bound to keys; to run them, you must refer to them by name.

A command name is, by convention, made up of one or more words, separated by writing each word with the first character in uppercase; for example, PageDown() or DeleteLine(). The use of English words makes the command name easier to remember than a key made up of obscure characters, even though it is more characters to type. Any command can be run by name, even if it is also runnable by keys.

The way to run a command by name is to start with 'shift escape' (invoking the function Prompt()), type the command in FPL syntax, and finish it with

enter.

Double-clicking on a function name will make FrexxEd try to run that function with `"();"` added to the end of it. If that function accepts invokes without parameters, it will run OK, otherwise an error message will be brought to you!

All functions (even functions created by you through FPL) are possible to activate from the prompt (in fact even the `Prompt()` command itself!).

Simply write the command line in FPL syntax and it'll be interpreted when you press enter.

`Prompt()` uses the list requester with all available functions in a list ready to get clicked!

* SEE the `FPLuser.guide` for further description of the language FPL.

1.40 Screen organization

FrexxEd divides the screen into several areas, each of which contains its own types of information. The largest area, of course, is the one in which you usually see the text you are editing.

When you are using FrexxEd, the screen is divided into a number of "views". Initially there is one text view occupying all but the last line. The text view can be subdivided vertically into multiple text views, each of which can be used for a different file. The view the cursor is in is the "current view" in which editing takes place. The other windows are just for reference unless you select one of them. (TECH NOTE: future versions of FrexxEd will have the ability to put single chosen buffers in their own `_real_` windows.)

Each view's last line is a status line describing what is going on in that window. Its primary purpose is to indicate what buffer is being displayed above it in the window; and whether the buffer's text has been changed on or not.

Point - Where the cursor will be when that view/buffer is active

Status line - The reversed video line at the bottom of every view

1.41 Point

When FrexxEd is running, the cursor shows the location at which editing commands will take effect. This location is called "point". Other commands move point through the text, so that you can edit at different places in it.

While the cursor appears to point AT a character, point should be thought of as BETWEEN two characters; it points BEFORE the character that the cursor appears on top of. Sometimes people speak of "the cursor" when they mean "point", or speak of commands that move point as "cursor motion" commands.

If you are editing several files in FrexxEd, each file has its own point location(s). A file that is not being displayed remembers where point is so that it can be seen when you look at that file again.

When there are multiple text views, each view has its own point location. The cursor shows the location of point in the selected window. This also is how you can tell which window is selected. If the same buffer appears in more than one window, point can be moved in each window independently.

The point location is stored in an "entry". By default each file has one entry to hold the cursor position, and if two or more views are viewing the same file they will have one entry each while visible.

To make FrexxEd able to remember several cursor positions in the same file, without viewing them, we introduced the SplitEntry() function. It will make a duplicate of the current entry and then there will exist two remembered cursor positions of that file. If a view holding such entry is removed, the cursor position will still be remembered.

1.42 Status line

Each text view's last line is a "status line" describing what is going on in that window. When there is only one text view, the status line appears at the bottom of the screen. The status line is in inverse video.

The "status line" is used to display small amounts of text for several purposes and when there's no need for texts, this gives information about the buffer being displayed in the window: the buffer's name, what position the cursor is in, whether the buffer's text has been changed, and a few other things...

If a command cannot be executed, it may print an "error message" in the status line.

Some commands print informative messages in the status line. Sometimes the message tells you what the command has done, when this is not obvious from looking at the text being edited. Sometimes the sole purpose of a command is to print a message giving you specific information. Commands that take a long time often display messages ending in '...' while they are working, and add 'done' at the end when they are finished.

The information of the status line is user customizable and can be made to contain nearly anything. Below is the default/built-in look described.

The status line is by default build up as:

~~~~~

<File name>                      <Flags>              Line: <num>    Col: <num>

Description:

~~~~~

File name Name of the buffer (sometimes replaced by a user message)

Flags Different flags:

c = Buffer (C)hanged
 I = (I)nsert mode
 b = (b)lock is marked
 B = (B)lock is released
 M = (M)acro is being recorded
 P = (P)ack mode (the 'pack_type' setting is not empty)
 R = (R)ead-only buffer/file

Line Current line number

Col Current column position

NOTE:

~~~~

Both "Line" and "Col" are localized strings that might differ to these in your native language.

## 1.43 Search and replace

Like other editors, FrexxEd has commands for searching and replacing occurrences of a string.

By invoking the requested search (as default on shift amiga s) or the requested replace (as default on amiga shift r) you'll be presented a requester with a list holding up to the 100 most recent search and replace strings. Type the string you want to search for, or select on one in the list.

By clicking on the buttons below the search/replace field(s), you can change the search/replace conditions.

Search/replace non-printable characters is done by using the C- style escape sequence standard:

|                   |                                              |
|-------------------|----------------------------------------------|
| <code>\a</code>   | - Alert (bell)                               |
| <code>\b</code>   | - Backspace                                  |
| <code>\f</code>   | - Form feed (new page)                       |
| <code>\n</code>   | - New-line                                   |
| <code>\r</code>   | - Carriage return                            |
| <code>\t</code>   | - Horizontal tab                             |
| <code>\v</code>   | - Vertical tab                               |
| <code>\</code>    | - Backslash                                  |
| <code>\xhh</code> | - Where hh is a two digit hexadecimal value. |
| <code>\nnn</code> | - Where nnn is a three digit octal value.    |

When replacing (without the 'no-prompt' flag), the cursor will be placed on each match and a line similar to '(y/n/q/a/g)' will be visible in the status line and FrexxEd will wait for your reaction. Press any of these keys:

|                  |                                                 |
|------------------|-------------------------------------------------|
| <code>'y'</code> | - Yes, replace this                             |
| <code>'n'</code> | - No, don't replace this                        |
| <code>'q'</code> | - Quit replacing (escape key is also accepted)  |
| <code>'a'</code> | - All (replace all without viewing the changes) |
| <code>'g'</code> | - Global (replace all and view the changes)     |

### Search options =====

- \* only Words  
The string is an entire word and not any kind of substring.
- \* Case sensitive  
As default the search is case insensitive and with this flag enabled, FrexxEd will see a difference in e.g "hello" and "Hello".
- \* Forward search  
Search forwards!
- \* Inside block  
Search only within the currently marked block. If the block isn't marked. this flag won't be visible.
- \* Prompt replace (only replace flag)  
Prompt for confirmation before replacing.
- \* Limit wildcard  
If using wildcard option, this flag makes the wildcard line oriented instead of the buffer limited version.
- \* Wildcards  
Wildcards are since 1.3 true UNIX-style regular expressions. They are extremely powerful and sometimes quite hard to use.

### Replace String =====

When using regular expression search, you have possibility to use parts of the matched string in the replace string!

It can refer to all or part of what is matched by the search string. '\&' in the replace string stands for the entire text being replaced. '\D', where D is a digit, stands for whatever matched the Dth parenthesized grouping in the search string. To include a '\' in the text to replace with, you must give '\\'. FrexxEd also supports the '/' instead of the real '\' in all kinds of regular expressions!

For example,

```
Replace("c[ad]+r", "\\&-safe");
```

replaces (for example) 'cadr' with 'cadr-safe' and 'cddr' with 'cddr-safe'.

```
Replace("(c[ad]+r)-safe", "\\1");
```

performs the inverse transformation.

## 1.44 Regular expressions

---



## Syntax of Regular Expressions

=====

NOTE: The characters ``` and `'` are used in this chapter to limit discussed strings. If the text is discussing the string `'foobar'`, you should not consider the quotes as part of the string. The string is then simply the `foobar` word!

Regular expressions have a syntax in which a few characters are special constructs and the rest are "ordinary". An ordinary character is a simple regular expression which matches that same character and nothing else. The special characters are `$.^.*+?[]()|/\#`. Any other character appearing in a regular expression is ordinary, unless a ``` precedes it.

For example, `'f'` is not a special character, so it is ordinary, and therefore `'f'` is a regular expression that matches the string `'f'` and no other string. (It does *not* match the string `'ff'`.) Likewise, `'o'` is a regular expression that matches only `'o'`. (When case distinctions are being ignored, these regexps also match `'F'` and `'O'`, but we consider this a generalization of "the same string", rather than an exception.)

Any two regular expressions A and B can be concatenated. The result is a regular expression which matches a string if A matches some amount of the beginning of that string and B matches the rest of the string.

As a simple example, we can concatenate the regular expressions `'f'` and `'o'` to get the regular expression `'fo'`, which matches only the string `'fo'`. Still trivial. To do something nontrivial, you need to use one of the special characters. Here is a list of them.

`'.` (Period)'

is a special character that matches any single character except a newline. Using concatenation, we can make regular expressions like `'a.b'` which matches any three-character string which begins with `'a'` and ends with `'b'`.

`'*'`

is not a construct by itself; it is a postfix operator, which means to match the preceding regular expression repetitively as many times as possible. Thus, `'o*'` matches any number of `'o's` (including no `'o's`).

`'*'` always applies to the *smallest* possible preceding expression. Thus, `'fo*'` has a repeating `'o'`, not a repeating `'fo'`. It matches `'f'`, `'fo'`, `'foo'`, and so on.

The matcher processes a `'*'` construct by matching, immediately, as many repetitions as can be found. Then it continues with the rest of the pattern. If that fails, backtracking occurs, discarding some of the matches of the `'*'`-modified construct in case that makes it possible to match the rest of the pattern. For example, matching `'ca*ar'` against the string `'caaar'`, the `'a*'` first tries to match all three `'a's`; but the rest of the pattern is `'ar'` and there is only `'r'` left to match, so this try fails. The next alternative is for `'a*'` to match only two `'a's`. With this choice,

the rest of the regexp matches successfully.

`'+'`

is a postfix character, similar to `'*'` except that it must match the preceding expression at least once. So, for example, `'ca+r'` matches the strings `'car'` and `'caaaar'` but not the string `'cr'`, whereas `'ca*r'` matches all three strings.

`'?'`

is a postfix character, similar to `'*'` except that it can match the preceding expression either once or not at all. For example, `'ca?r'` matches `'car'` or `'cr'`; nothing else.

`'#'`

this character is not part of the original UNIX/Emacs RE, but added by us to enable even better expressions. `'#'` matches any number of characters until the string following it matches. I.e, searching for `'foo#bar'` will find the first occurrence of the word `'foo'` followed by any number of characters and then the word `'bar'`. To make the REs even more like Amiga-style, we allow a following `'?'`-character after the `'#'`-character without changing the meaning of it. Thus, `'foo#?bar'` will match just as good.

`'[ ... ]'`

is a "character set", which begins with `'['` and is terminated by a `']'`. In the simplest case, the characters between the two brackets are what this set can match.

Thus, `'[ad]'` matches either one `'a'` or one `'d'`, and `'[ad]*'` matches any string composed of just `'a's` and `'d's` (including the empty string), from which it follows that `'c[ad]*r'` matches `'cr'`, `'car'`, `'cdr'`, `'caddaar'`, etc.

You can also include character ranges in a character set, by writing two characters with a `'-'` between them. Thus, `'[a-z]'` matches any lower-case letter. Ranges may be intermixed freely with individual characters, as in `'[a-z$%.]'`, which matches any lower case letter or `'$'`, `'%'` or period.

Note that the usual special characters are not special any more inside a character set. A completely different set of special characters exists inside character sets: `']'`, `'-'` and `''`.

To include a `']'` in a character set, you must make it the first character. For example, `'[ ]a'` matches `']'` or `'a'`. To include a `'-'`, write `'-'` at the beginning or end of a range. To include `''`, make it other than the first character in the set.

`'[^ ... ]'`

`'[^'` begins a "complemented character set", which matches any character except the ones specified. Thus, `'[^a-z0-9A-Z]'` matches all characters *except* letters and digits.

`''` is not special in a character set unless it is the first character. The character following the `''` is treated as if it were first (`'-'` and `']'` are not special there).

A complemented character set can match a newline, unless newline is mentioned as one of the characters not to match. This is in contrast to the handling of regexps in programs such as `'grep'`.

`'^'`

is a special character that matches the empty string, but only at the beginning of a line in the text being matched. Otherwise it fails to match anything. Thus,  `'^foo'` matches a `'foo'` which occurs at the beginning of a line.

`'$'`

is similar to  `'^'` but matches only at the end of a line. Thus, `'xx*$'` matches a string of one `'x'` or more at the end of a line.

`'|'`

specifies an alternative. Two regular expressions A and B with `'|'` in between form an expression that matches anything that either A or B matches.

Thus, `'foo|bar'` matches either `'foo'` or `'bar'` but no other string.

`'|'` applies to the largest possible surrounding expressions. Only a surrounding `'( ... )'` grouping can limit the scope of `'|'`.

Full backtracking capability exists to handle multiple uses of `'|'`.

`'( ... )'`

is a grouping construct that serves three purposes:

1. To enclose a set of `'|'` alternatives for other operations. Thus, `'(foo|bar)x'` matches either `'foox'` or `'barx'`.
2. To enclose a complicated expression for the postfix operators `'*'`, `'+'` and `'?'` to operate on. Thus, `'ba(na)*'` matches `'bananana'`, etc., with any (zero or more) number of `'na'` strings.
3. To mark a matched substring for future reference.

This last application is not a consequence of the idea of a parenthetical grouping; it is a separate feature which is assigned as a second meaning to the same `'( ... )'` construct. In practice there is no conflict between the two meanings. See `'\D'` for an explanation of this feature.

`'\'` or `'/'`

has two functions: it quotes the special characters (including `'\'` and `'/'`), and it introduces additional special constructs.

Because `'\'` quotes special characters, `'\$'` is a regular expression which matches only `'$'`, and `'\['` is a regular expression which matches only `'['`, etc.

Note: for historical compatibility, special characters are treated as ordinary ones if they are in contexts where their special meanings make no

sense. For example, `*foo` treats `*` as ordinary since there is no preceding expression on which the `*` can act. It is poor practice to depend on this behavior; better to quote the special character anyway, regardless of where it appears.

For the most part, `\` followed by any character matches only that character. However, there are several exceptions: two-character sequences starting with `\` which have special meanings. The second character in the sequence is always an ordinary character on their own. Here is a table of `\` constructs.

`\D`

after the end of a `( ... )` construct, the matcher remembers the beginning and end of the text matched by that construct. Then, later on in the regular expression, you can use `\` followed by the digit `D` to mean "match the same text matched the `D`th time by the `( ... )` construct."

The strings matching the first nine `( ... )` constructs appearing in a regular expression are assigned numbers 1 through 9 in order that the open-parentheses appear in the regular expression. `\1` through `\9` refer to the text previously matched by the corresponding `( ... )` construct.

For example, `(.*)\1` matches any newline-free string that is composed of two identical halves. The `(.*)` matches the first half, which may be anything, but the `\1` that follows must match the same exact text.

If a particular `( ... )` construct matches more than once (which can easily happen if it is followed by `*`), only the last match is recorded.

`\`

matches the empty string, provided it is at the beginning of the buffer.

`\'`

matches the empty string, provided it is at the end of the buffer.

`\b`

matches the empty string, provided it is at the beginning or end of a word. Thus, `\bfoo\b` matches any occurrence of `foo` as a separate word. `\bballs?\b` matches `ball` or `balls` as a separate word.

`\B`

matches the empty string, provided it is *not* at the beginning or end of a word.

`\<`

matches the empty string, provided it is at the beginning of a word.

`\>`

matches the empty string, provided it is at the end of a word.

---

`'\w'`

matches any word-constituent character. The syntax table determines which characters these are.

`'\W'`

matches any character that is not a word-constituent.

`'\sC'`

matches any character whose syntax is C. Here C is a character which represents a syntax code: thus, 'W' for word constituent, '(' for open-parenthesis, etc. See the FACT description for more details!

`'\SC'`

matches any character whose syntax is not C.

The constructs that pertain to words and syntax are controlled by the setting of the FACT.

## 1.45 Undoing changes

FrexxEd allows all changes made in the text of a buffer to be undone, up to a certain amount of change ('undo\_max' number of bytes or 'undo\_steps' number of steps). Each buffer records changes individually, and the undo command always applies to the current buffer. Usually each editing command makes a separate entry in the undo records, but some commands such as 'replace' make many entries, and very simple commands such as self-inserting characters are often grouped to make undoing less tedious.

`'amiga u'`

Undo one batch of changes (usually, one command worth) ('Undo').

`'amiga U'`

Restart the undo session ('UndoRestart').

The command 'amiga u' is how you undo. The first time you give this command, it undoes the last change. Point moves to the text affected by the undo, so you can see what was undone.

Consecutive repetitions of the 'amiga u' commands undo earlier and earlier changes, back to the limit of what has been recorded. If all recorded changes have already been undone, the undo command prints an error message on the status line and does nothing.

Any command that somehow changes the buffer breaks the sequence of undo commands. Starting at this moment, the previous undo commands are considered ordinary changes that can themselves be undone. Thus, you can redo changes you have undone by typing 'amiga U' ('UndoRestart') and then using more undo commands.

If you notice that a buffer has been modified accidentally, the easiest way to recover is to type 'amiga u' repeatedly until the 'c' disappear from the front of the status line. At this time, all the modifications you made have been canceled. If you do not remember whether you changed the buffer deliberately, type 'amiga u' once, and when you see the last change you made

undone, you will remember why you made it. If it was an accident, leave it undone. If it was deliberate, redo the change as described in the preceding paragraph.

Whenever an undo command makes the 'c' disappear from the status line, it means that the buffer contents are the same as they were when the file was last read in or saved.

Undo is switchable on/off locally for every single buffer using the setting 'undo'.

## 1.46 List gadget

Plenty functions featuring selection or input requesters use the same requester for ease and recognition. In some occasions it's used only to get a selection from you out of the list and in some to get a string (that also might be picked from the list), but in all cases you can control it 100% using the keyboard.

Special keystrokes:  
=====

- \* amiga <?>      Pressing amiga and a key (written in the window to the right of a check box, with an underline beneath) will toggle that check box's condition.
- \* amiga v          Paste the current block contents in the string gadget.
- \* cursor down      Select the word below the currently selected one.  
                      If no word was selected, the first one is chosen.
- \* cursor up        Select the word above the currently selected one.
- \* shift cursor down    Select the last word in the list.
- \* shift cursor up     Select the first word in the list.
- \* escape            The same action as clicking on the Cancel button.
- \* return            First deactivates the current string input field.  
                      Then it is the same action as clicking on the 'OK' button.
- \* tab                (Only usable when using two input fields.)  
                      Toggle current input field.

Clicking on a word in the selection list makes it the current selected one. Double clicking is the same as choosing a word and pressing Ok.

## 1.47 Using multiple buffers

The text you are editing in FrexxEd resides in an object called a "buffer". Each time you open a file, a buffer is created to hold the file's text.

---

At any time, one and only one buffer is "selected". It is also called the "current buffer". Often we say that a command operates on "the buffer" as if there were only one; but really this means that the command operates on the current buffer (most commands do).

When FrexxEd makes multiple views, each view has a chosen buffer which is displayed there, but at any time only one of the views is selected and its chosen buffer is the selected buffer. Each view's status line displays the name of the buffer that the view is displaying.

Each buffer has a name, which can be of any length, and you can select any buffer by giving its name. Most buffers are made by opening files, and their names are derived from the files' names. But you can also create an empty buffer with any name you want. A newly started FrexxEd has a buffer named "\*noname\*". The distinction between upper and lower case does not matter in buffer names.

Each buffer records individually what file it has opened and whether it is modified. A lot of FrexxEd settings are "local to" a particular buffer, meaning its value in that buffer can be different from the value in other buffers.

Each buffer has an entry, which keeps track of, among other things, the cursor position. All buffers start with one entry and can therefore only have one remembered cursor position (when none are being viewed). By duplicating an entry, FrexxEd offers an unlimited number of entries to the same buffer, and therefore can remember plenty cursor positions even if the buffer isn't viewed in that many views.

```
Selecting buffers
=====
```

```
'alt cursor up'
Select next buffer on screen ('NextView').
```

```
'alt cursor down'
Select previous buffer on screen ('PrevView').
```

```
'alt cursor left'
Select next buffer that is not visible on screen ('NextHidden').
```

```
'alt cursor right'
Select previous buffer that is not visible on screen ('PrevHidden').
```

```
'amiga g'
Select a buffer (starts an FPL program that uses the PromptBuffer()
function), or simply view all buffers that are currently in memory.
```

## 1.48 View concepts

FrexxEd can split the screen into two or many views, which can display parts of different buffers, or different parts of one buffer.

Basic view

---

=====

When multiple views are being displayed, each view has a FrexxEd buffer designated for display in it. The same buffer may appear in more than one view; if it does, any changes in its text are displayed in all the views where it appears. But the views showing the same buffer can show different parts of it, because each view has its own value of point.

At any time, one of the views is the "selected view"; the buffer this view is displaying is the current buffer. The cursor shows the location of point in this view. Each other view has a location of point as well, but since there is only one cursor there is no way to show where those locations are.

Commands to move point affect the value of point for the selected FrexxEd view only. They do not change the value of point in any other FrexxEd view, even one showing the same buffer. The same is true for commands such as 'NextBuf' to change the selected buffer in the selected view; they do not affect other views at all.

Each view has its own status line, which displays the buffer name, modification status etc.

Splitting views  
=====

'amiga d'

Split the selected view into two views, one above the other. The two views each get half the height of the view that was split. Future versions of FrexxEd will include ability to split buffers horizontally too.

Using other views  
=====

'alt cursor up'  
Select previous view ('PrevView').

'alt cursor down'  
Select next view ('NextView').

To select a different view, use 'alt cursor up/down'. The 'previous' buffer is the one above the current (if the current is the uppermost view, the previous is the buffer at the bottom) and the 'next' buffer is the one below the current (if the current is the bottommost view, the next is the buffer at the top).

Deleting and rearranging views  
=====

'amiga delete'  
Get rid of the selected view ('RemoveView').

'amiga l'  
Get rid of all views except the selected one ('MaximizeView').

'amiga +'  
Resize the selected view ('ResizeView').

---



The space occupied by the deleted view is given to the view below. Once a view is deleted, its attributes are forgotten; there is no automatic way to make another view of the same shape or showing the same buffer. But the buffer continues to exist, and you can select it in any view with 'amiga g'.

To readjust the division of space among existing views, use 'amiga +' (it enables you to change the size of the currently selected view) or click and drag using the mouse.

## 1.49 Using macros

To record a sequence of actions and then re-play them, is what we refer to as "macros".

Record a macro

~~~~~

FrexxEd allows the user to at any time invoke the function 'MacroRecord', which by default is done with the key sequence amiga-m (when done, the window and screen title will say 'begin recording'). All actions followed that function invoke will then be recorded. You stop the recording by calling the function again; by pressing amiga-m. You are then supposed to enter the key sequence which you think should replay your recorded sequence of actions. The entered key sequence should be terminated by pressing 'escape'.

Replay a macro

~~~~~

Now, the actions can get replayed by pressing the given key sequence!

Format of the macro

~~~~~

The macro is stored and run as a FPL program. Every single action recorded is translated into FPL function invokes, thus enabling the user to view the macro and by that understand what it does, and further more, if the recorded script happens to do something wrong, it is dead easy to make small adjustments.

Edit/view macros

~~~~~

Select the menu item brought with the Menu.FPL file called "Special->Edit macros..." and select the macro you want to edit. They're named with a unique name partly built by the key sequence you assigned it to!

Execute a buffer with a key

~~~~~

In the menu brought to FrexxEd through the execution of Menu.FPL, the menu item "Special->Fastkey buffer exec..." assigns a key sequence to the execution of the current buffer. Convenient to use when you have a FPL program in a buffer and want to execute it repeatedly.

* SEE MacroRecord() in the function reference.

1.50 Long lines

If you add too many characters to one line, without breaking it with a return, the line will grow longer than the window is able to visualize. All characters that do not fit in the width of the screen or window do not appear at all. They remain in the buffer, temporarily invisible. There is no limit of a single line's length.

There is no way to see if a line is longer than the screen but to try to move the cursor to the end of the line, as default. There is although a FACT controllable char named "ContinuedLine" which is visualized at the right of all lines longer than the width of the window. If the line is longer than the screen is wide, the screen will scroll to the left (the amount of cursor steps FrexxEd will scroll is set in 'move_screen') when the cursor reach the column specified in 'marg_right' (actually that number is the number of characters from the right edge).

The screen will scroll back to the right when the cursor hits the 'marg_left' column of the screen.

1.51 Filehandler

(Big thanks to Linus Nielsen who brought us the code which made this feature possible.)

What's the filehandler?

~~~~~

Each started FrexxEd mounts a virtual disk. By reading or writing to that disk, you can access the buffers of FrexxEd from outside the editor without having to mess with temporary files. You can for example compile a source that never has been saved, straight from within FrexxEd, or you can re-direct the output from a command straight into a FrexxEd buffer.

What's it called?

~~~~~

By default, the disk name of the first started FrexxEd will become 'FrexxEd0:', the disk name of the second FrexxEd will be 'FrexxEd1:' and so on. By using the command line option or tool type called 'DISKNAME' you can set the name that FrexxEd will use.

How can I use it?

~~~~~

Workbench users will notice it immediately after FrexxEd has been started since the icon of the disk will appear in the Workbench main window (actually, the default disk icon will appear since there won't be any 'Disk.info' file in the FrexxEd disk!). It can then be used just like the standard ram disk. The only difference is that the contents of the FrexxEd disk will also be viewable/editable from within FrexxEd.

Shell users can view all buffers in FrexxEd by typing "dir FrexxEd0:" just like the contents of any other drawer or disk is listed.

All programs that operate on files can use the FrexxEd0: drive instead of any other drive.

Identical filenames

~~~~~

Since FrexxEd allows more than one file with the same name loaded, there is a

slight problem to visualize all buffer names correctly. If there is more than one occurrence of a file name, the second and the following names will then be displayed as "<name>,<num>". I.e, having two buffers named "foobar" will make them appear as "foobar" and "foobar,2"

What restrictions are there?

~~~~~

The FrexxEd disk doesn't support directories. All files copied to the disk or buffers created in the editor reside in the same 'root' directory/drawer.

Files can't be renamed to a name that already is being used in the same disk/editor (as can be done within the editor).

Modified files, the file that the cursor is currently in or files that are referred to by the editor can't be deleted. They will simply return 'object in use'.

Files without names (displayed as "\*noname\*" within the editor) will be named "noname" when accessed from the filehandler.

FrexxEd can't be quit as long as there is any program or process that has the FrexxEd disk locked or opened in some way. Attempting to do so will make FrexxEd display a requester saying it can't quit.

All packet types are not supported. For a technical and detailed summary, see the list further down.

The volume can still be accessed even though the editor is locked up with things like displaying a requester or similar.

Things to think of

~~~~~

If you select 'Window->Snapshot->...' in the Workbench menu when the FrexxEd disk is selected, you will get a Disk.info or <filename>.info file created inside FrexxEd...

Technically speaking, exactly what packets does the handler reply to?

~~~~~

ACTION\_COPY\_DIR  
ACTION\_DISK\_INFO  
ACTION\_END  
ACTION\_EXAMINE\_NEXT  
ACTION\_EXAMINE\_OBJECT  
ACTION\_FINDINPUT  
ACTION\_FINDOUTPUT  
ACTION\_FINDUPDATE  
ACTION\_FREE\_LOCK  
ACTION\_INFO  
ACTION\_IS\_FILESYSTEM  
ACTION\_LOCATE\_OBJECT  
ACTION\_READ  
ACTION\_RENAME\_OBJECT  
ACTION\_SAME\_LOCK  
ACTION\_SEEK  
ACTION\_SET\_DATE  
ACTION\_SET\_COMMENT  
ACTION\_SET\_PROTECT

---

ACTION\_WRITE

## 1.52 Using folds

What is a fold?

~~~~~

Folding is a way to prevent certain parts of the buffer from being viewed. By making well placed folds, you can make the buffer much more easier overviewed and understood.

When making a fold, the first line will remain visible and the rest will be hidden. Let's say we have a text like the following:

```
1: This program was cracked on request of Demax/Delight. I must admit that
2: it took me some hours to crack it (mainly because i'm lazy and tired),
3: but now I can even make a FrexxEd auto-registrator for new versions (if
4: the authors doesn't change protection) but I won't cause i'm too lazy...
5: This little crack note was written in FrexxEd.
```

and we fold line 1 to 4. Then the text on the screen will look like:

```
1: This program was cracked on request of Demax/Delight. I must admit that
5: little crack note was written in FrexxEd.
```

You will also notice a little 'fold mark' at the left of the first line of each fold that informs the viewer about the fact that there is a fold there. That fold mark character is changeable through the FACT.

Dealing with folds

~~~~~

You can at any time remove the fold, making it look like the original unfolded text again, or you can unfold the folded area just temporarily and fold it again later. FrexxEd even offers the possibility to display the fold only, hiding everything else.

Normally, you block mark a few lines and invoke the 'Fold()' function to make the area into a fold.

By calling the function 'FoldShow()' you unfold the fold currently under the cursor, and make it displayed. 'FoldShow()' makes the fold visible, but still remembers all lines that are in the fold. To hide the fold again, just invoke the 'FoldHide()' function.

To remove a fold, invoke the 'FoldDelete()' function standing on a fold, and the text will get unfolded before the fold information is removed.

The most used fold functions are easily invoked by using the menu brought to FrexxEd through the Menu.FPL program, and there, under the Edit title.

Saving/loading folded buffers

~~~~~

To make a loaded buffer get folded just the way it was when it was saved, FrexxEd inserts strings that tell about where the folds start and end when saving a buffer. The strings used will get custom strings written on both sides of them to enable them to appear as comments to programs that use/access/read the saved file...

The info variable 'fold_save' turns this feature on and off. If the variable is set to off, no fold marks will be saved and no marks will be recognized when a folded file is being loaded.

Search/replace in folded buffers

~~~~~

The search and replace functions feature a flag that enables or disables the function from searching inside the folded areas.

Folds displayed on screen

~~~~~

There are a few different things that handles the setup of the display of each fold.

First, you can set the 'fold_width' info variable to set the width of the margin which FrexxEd will use for fold-information only. It will appear to the left of the rest of the lines.

Secondly, you can change the characters that are used within the margin to display the folds. A buffer with a fold being showed can look like:

```
AAA /* nonsense */
1>A /* First line of fold */
1BA /* second line of fold area */
1BA /* this is the last line of the fold */
AAA /* non-folded real-looking line! */
```

Where the characters '>', 'A' and 'B' all are changeable with the FACT() function! The setup like the example above is accomplished by using:

```
FACT(-3, 's', ">");
FACT(-4, 's', "B");
FACT(-5, 's', "A");
```

1.53 Customizing and Configuration overview

Modern text editors of today's computing societies do often include features for recording a sequence of actions for later replaying. So called macros. They are often even capable of changing fonts and when looking especially at the Amiga market, they all have ARexx ports. Text editors of today are made to be altered by the users of them.

FrexxEd is a modern editor in a world of change. FrexxEd is indeed changeable too, in more ways than any other text editor I've ever seen in my life, including editors in operating systems like UNIX (Xwindows), OS/9(000), OS/2, MS-DOS (Windows) and AmigaDOS.

We have constructed FrexxEd with the goal that everyone should be able to make FrexxEd to suit their needs and to do exactly whatever it is that you think a text editor should do. Therefore we provide bazillions of different ways to make FrexxEd different than default.

If you, after have read through this section, still can't think of a way to solve you problem; get in touch and we'll make it possible. If not by using the current customizing tools, we'll figure out a way to support it in the next FrexxEd version!

1.54 Change colours

The current version of FrexxEd has a very limited support for using different colours.

FrexxEd uses the four first system pens for all graphics.

Adjust the colors by selecting the menu item 'Customizing->Colours->Adjust'. The colour values will be stored together with all the rest of the info variables when you save them.

The names of the info variables that hold the 12-bit colour representation values are called 'colour0', 'colour1', 'colour2' and 'colour3'.

Also selectable is which pen FrexxEd should use to display the information on the right part of the status line. By setting the info variable 'pen_info' you tell FrexxEd which pen to use.

1.55 How to change font

In a GUI environment, the selection of the right font for the right moment is important for the user to feel comfortable. FrexxEd uses two different fonts for best look. One is used as 'system font', the main text edit font used in the editing area as well as in the status lines. That font must be non-proportional. The other font is used everywhere else where fonts are used: in requesters, information windows and in the menus.

The easiest way to change the fonts is to use the menu items:

"Customizing->Font->System font" for changing the first font and
"Customizing->Font->Request font" for changing the second one.

ADVANCED INFORMATION:

* See the info variables "system_font" and "request_font" in the 'change settings' section.

1.56 How to change settings

(Remember that some of the strings mentioned in this text may not be the same using locale.library and a non-English language.)

FrexxEd provides a bunch of "settings" (also referred to as "info variables") that are meant to be altered (or some simply read) by the user to make FrexxEd alter its way to do things. Just remember to save the settings to make them take effect every time you start FrexxEd in the future.

Available "settings" are dependent of what FPL programs that have been run since such programs can add new ones as well as alter existing ones.

The "settings" are easily controlled using the menu items, under the "Customizing" label. Some of them are global, that affect the entire FrexxEd,

and some are local (buffer-specific).

To get a more detailed definition of the variables, which kind, what range they can be altered within, and similar information, refer to the Functions.guide manual and the ReadInfo() function description!

This is the full and verbose FrexxEd internal info variable reference!

NAME ====	DESCRIPTION =====
'appicon'	Tells FrexxEd that it should bring up an AppIcon on the Workbench screen. AppIcons are the kind of icons that regular disk devices are. Dropping an icon on FrexxEd's AppIcon will invoke the 'IconDrop' exception. By default it will include the dropped file at the current position.
'appwindow'	Tells FrexxEd that it should make its window an AppWindow. AppWindows enables Workbench users to inform FrexxEd when he/she drops icons in the FrexxEd window. Dropping an icon in FrexxEd's window will invoke the 'IconDrop' exception. By default it will include the dropped file at the current position.
'arexx_port'	Each started FrexxEd will get its own unique ARexx port. This variable holds the name of this invoke's port.
'auto_resize'	Tells FrexxEd if it should adjust its size after the selected font's size. If this is enabled, FrexxEd will adjust window size whenever it is resized, to not make any gap within the window.
'autosave'	When enabled, this will make FrexxEd generate the 'AutoSave' exception after 'autosave_interval' number of changes has been done to a buffer.
'autosave_interval'	Controls the number of changes required to generate the 'AutoSave' exception if 'autosave' is enabled.
'autoscroll'	Tells intuition to let the screen scroll when the mouse pointer reaches when edge of the visible area of a screen larger than visible.
'block_begin_x'	Holds the start column of the current block
'block_begin_y'	Holds the start line of the current block
'block_end_x'	Holds the end column of the current block
'block_end_y'	Holds the end line of the current block
'block_exist'	This is 0, 1 or 2 if a block is currently: 0 - not marked 1 - marked at the cursor 2 - marked and released from the cursor

'block_id'	Block ID of the current block.
'block_type'	Type of the currently marked block. 1 = normal, 2 = rectangle
'buffers'	Holds the number of buffers in this FrexxEd.
'byte_position'	The actual byte position of the current line. That means that *each* character is read as one single byte, independent of what the character may look like on screen.
'changes'	Holds the number of changes done to the buffer since it was last saved or loaded.
'colour0'	Holds the 4 bit color value of color 0.
'colour1'	Holds the 4 bit color value of color 1.
'colour2'	Holds the 4 bit color value of color 2.
'colour3'	Holds the 4 bit color value of color 3.
'column'	The column number of the current cursor position.
'comment'	File comment to the current buffer.
'comment_begin'	String that precedes the fold information FrexxEd stores when a folded file is saved.
'comment_end'	String that follows the fold information FrexxEd stores when a folded file is saved.
'counter'	A constantly increasing number that increases one step on every internal action of FrexxEd. Read it for whatever purpose you like.
'current_screen'	The name of the screen this FrexxEd is opened on.
'cursor_x'	The cursor position relative the left border of this view.
'cursor_y'	The cursor position relative the upper border of this view.
'default_file'	Which default file that was read initially at startup.
'directory'	Default directory. FrexxEd changes to this directory when it runs. All file operations are done with the specified directory as if FrexxEd was started in that directory. An empty string make FrexxEd use the "real" startup directory.
'display_id'	Which display ID the FrexxEd screen is using.
'disk_name'	Name of the mounted volume this FrexxEd has mounted.
'ds_Days'	The modification date of the buffer's file in number of days since the 1st of January 1978.
'ds_Minute'	The modification date of the buffer's file in number of minutes since 00:00 the day specified in 'ds_Days'.

'ds_Ticks'	The modification date of the buffer's file in number of ticks (seconds * 50) since the full minute in the 'ds_Minute' field.
'entries'	Number of existing entries in this FrexxEd.
'expand_path'	How to expand the path at load time. "Off" - not at all, "Relative" - expand path names without semicolon and "All" - expand all path names. Using the "Off" version makes it possible to change current directory of FrexxEd and then store all files loaded relative in different dirs than they were loaded from. Version "Relative" enables the user to change the destination of an assign in the middle of an editing session and then saved files will use the new dir. "All" will disable all chances of storing the file in a different dir that it was brought from. It will use the exact volume name, even changing diskette in df0: will be denied! Using the info variable from an FPL program will give you the following cycle values: 0 - Off 1 - Relative 2 - All
'fact'	The name of the FACT to use in this entry.
'file_name'	The file name of the buffer.
'file_number'	File number of the buffer. If more than one buffer has the same file name, they will get different file numbers.
'file_path'	Path name of the buffer.
'fold_save'	Whether fold information should be included when a file is saved, and whether folded information should get interpreted when files are loaded.
'fold_width'	Width of the margin to use for fold information.
'fpl_debug'	Tells FrexxEd to run all FPL programs in debug mode or not.
'fpl_path'	Which directories that should be searched through at each FPL file execution. Default is first current directory and then 'FrexxEd:FPL/'.
'fragmentation'	Number of fragmentations of the buffer.
'fragmentation_size'	Total size of the fragmentations.
'full_file_name'	The full file name as FrexxEd knows it. That is, path and file name joined together the proper way.
'iconify'	Holds information whether FrexxEd is iconified.
'insert_mode'	Characters that are output in the buffer should insert themselves in the text if this is enabled, otherwise they write

over the existing data.

'keymap'	Specify the name of your especially designed keymap here and that keymap will be used within FrexxEd. No string means that the system default is used.
'language'	The language the system was using when FrexxEd was started. This string is the same as locale uses. That is, the name of the language is the locale name, the name the speakers of the language use. I.e, swedish would make it contain 'svenska, german 'deutsch' and so on...
'line'	The line number of the current position.
'line_counter'	If enabled, FrexxEd will display each line number to the left of the actual lines in the view.
'line_counter_width'	When using line counter, this is the width of the line counter field that FrexxEd will use.
'line_length'	The length in number of bytes of the current line.
'lines'	The amount of lines in the current buffer.
'macro_key'	If this is a buffer than was created by a macro recording, this variable will hold the key sequence assign to its execution.
'macro_on'	If this is true, macro recording is in progress!
'marg_left'	These four "settings" specifies the number of cursors from each edge where the screen should move. If the margin is hit, FrexxEd moves the screen in that direction.
'marg_lower'	
'marg_right'	
'marg_upper'	
'mouse_x'	In which column of the view the mouse button was pressed.
'mouse_y'	In which line of the view the mouse button was pressed.
'move_screen'	The amount of cursor steps that FrexxEd should move the screen at a time when the left or right margin is hit by the cursor.
'overscan'	Overscan type in intuition secret code!
'pack_type'	This tells FrexxEd how to pack this file when it is to be stored on disk. All files that are unpacked when loaded will get this set to the previously used packing type. "PP20" will force powerpacker to be used when packing, and all other types will be up to xpkmaster.library. If the specified packing type isn't known to xpk, any save action will fail. Some widely used algorithms include: BLZW, NUKE, IMPL, HUFF and more. The packing type is always a four-letter word. Files with a ".pp" suffix is automatically powerpacked when saved (that is using the "PP20" packing type).

NOTE: This option does rely on third party library support. xpkmaster.library is copyrighted by its authors, and Urban Dominik Müller, umueller@amiga.physik.unizh.ch, is one of the leading ones. powerpacker.library is copyrighted by Nico Francois, nico@augfl.be.

- 'password' If the file previously read and/or should be encrypted when saved, this is the password that was used/should be used. This can only be used together with a XPK pack type string that supports encryption! See the File Handling section.
- 'pen_info' Pen number of the information on the right half of the status line.
- 'popup_view' Tells FrexxEd in which way you would like new views to show up on the screen. Should they 'replace' the current, should they 'split' the current or should they take use of the 'full' window?
Using the info variable from an FPL program will give you the following cycle values:
0 - Replace
1 - Split
2 - Full
- 'protection' The protection bits of the current buffer as one string. Each bit has its own letter. They can be specified in any order. The letters used are the ones that the AmigaDOS 'protect' command uses: "RWEDSPA". (R)ead, (W)rite, (E)xecute, (D)elete, (S)cript, (P)ure, (A)rchive and (H)idden.
- 'protectionbits' The protection bits of the current buffer as one integer. The bits are defined exactly as defined in dos/dos.h, see further details under the ReadInfo() description.
- 'public_screen' The name of the public screen to open FrexxEd on. When FrexxEd already is opened, this will show you the name of the current screen FrexxEd is opened on.
- 'real_screen_height' The "real_#?" variables holds the actual values that their names tell. Those variables without the "real_" prefix are the wished valued.
- 'real_screen_width'
- 'real_window_height'
- 'real_window_width'
- 'real_window_xpos'
- 'real_window_ypos'
- 'replace_buffer' The string in the 'replace buffer', that is the string that will replace the search string when a replace is performed.
- 'request_font' The font name and size used in all requesters and the menus.
- 'request_pattern' The pattern used in the filerequester.
- 'right_mbutton' If enabled, tells FrexxEd that you would like to have the right mouse button programmable. If disabled, the right mouse button will only bring up the menus.
-

'rwd_sensitive' If enabled, tells FrexxEd that it should care about the protection bits of the files it reads and writes.

'safe_save' If enabled, FrexxEd will always save buffers by first creating a unique file name and then try to rename that file to the name of the "real" file. If the file name is any kind of link, saving will fail if 'safe_save' is enabled.

'save_icon' 'never' saves any icons
'always' saves icons when anything is written to disk
'parent' saves an icon if the parent directory has an icon. See the File handling section.
Using the info variable from an FPL program will give you the following cycle values:
0 - Never
1 - Always
2 - Parent

'screen_depth' The number of bitplanes that the FrexxEd screen uses.

'screen_height' The preferred height of the FrexxEd screen.

'screen_width' The preferred width of the FrexxEd screen.

'search_block' The search/replace flag search/replace within block.

'search_buffer' The current search string. Could also be used to read strings from the search history.

'search_case' The search/replace flag search/replace case sensitive.

'search_forward' The search/replace flag search/replace forward.

'search_flags' The search/replace flags as one int. This is mainly to be used for programs that wants to be able to reset all search flags after the program is done.

'search_fold' The search/replace flag whether to search/replace within folded areas of a buffer.

'search_limit' The search/replace flag search/replace limit wildcards at end of line.

'search_prompt' The replace flag query before replace.

'search_wildcard' The search/replace flag search/replace wildcard is used.

'search_word' The search/replace flag search/replace to match only words.

'shared' Number of entries to the same buffer.

'shared_number' Number of this entry among the entries to the same buffer.

'show_path' If enabled, FrexxEd will show as much as possible of the path to the files in the status lines, otherwise simply the file name part of it.

'size'	The size in bytes of the current buffer.
'slider'	<p>This cycle gadget lets you select slider. You can turn it off or select left/right. When using FrexxEd in a window, this has no effect, but the slider will always be put on the right side. By default FrexxEd puts the slider on the right side. Using the info variable from an FPL program will give you the following cycle values:</p> <p>0 - None 1 - Right 2 - Left</p>
'startup_file'	This is the name of the FPL program to run when FrexxEd is started. Several programs can be specified by separating them with ' '.
'status_line'	This variable describes the format of the status line. See the dedicated status line customizing chapter for details.
'system_font'	The font name and size of the screen/text font of FrexxEd.
'tab_size'	Width of the TAB character.
'taskpri'	The exec priority of this FrexxEd process.
'topline'	The number of the topmost line of the view.
'top_offset'	The line of the window that the current view starts at.
'type'	<p>Buffer type bitmask:</p> <p>Bit 0 = standard file buffer Bit 1 = macro buffer Bit 2 = block buffer Bit 3 = invisble buffer. Buffers with this bit set will generally not become visible.</p>
'undo'	Undo on/off for this buffer.
'undo_lines'	Number of undo lines stored in the undo buffer for this buffer.
'undo_max'	The maximum amount of bytes to use for undo buffers in whole FrexxEd.
'undo_memory'	Amount in bytes that the undo buffer currently uses.
'undo_steps'	The maximum amount of undo steps to store in one undo buffer.
'unpack'	If enabled, FrexxEd will unpack loaded files whenever such a file is read and the proper library exist in LIBS:. If 'unpack' is disabled, no unpacking/decryption will be performed.
'version'	The version number of the running FrexxEd. The number is built like Version * 10000 + Revision.

'version_id' The version ID string of the running FrexxEd.

'view_columns' Number of columns in the view.

'view_lines' Number of lines in the view.

'views' Number of views in the window.

'visible' Holds non-zero if the entry is visible.

'window' Select how you want FrexxEd to startup as default. 'screen', 'window' or 'backdrop'.
Using the info variable from an FPL program will give you the following cycle values:
0 - Screen
1 - Window
2 - Backdrop window

'window_height' The height which FrexxEd should use when it opens a window.

'window_pos' Whether to use the x and y positions of the FrexxEd opening relative the 0,0 of the host screen, or relative the visible display clip of the screen. 'Absolute' or 'Visible'.
Using the info variable from an FPL program will give you the following values:
0 - Visible
1 - Absolute

'window_width' The width which FrexxEd should use when it opens a window.

'window_xpos' The x position of the FrexxEd opening. See 'window_pos'.

'window_ypos' The y position of the FrexxEd opening. See 'window_pos'.

ADVANCED INFORMATION:

* See the functions ReadInfo(), SetInfo() and PromptInfo() in the Functions.guide manual.

1.57 How to change startup behaviour

As can be read more about in the "PROGRAMMING FREXXED, Startup functions" chapter, FrexxEd executes none, one or more FPL programs when started. You can easily change which file(s) by selecting the menu item "Customizing->Settings->Globals" and enter the file name in the 'startup_file' field. Several names should be separated with a vertical bar '|'. FrexxEd will search for the file(s) first as specified and then in the 'FrexxEd:FPL/' directory.

Easy n' quick:

~~~~~

Put the FPL programs you want executed at startup in the FrexxEd:Startup/ directory. Remove them from there if you don't want them executed at startup!

Put the macros you always want to use in FrexxEd in the FrexxEd:Startup/ directory. Remove them from there if you don't want those macros at startup!

The FrexxEd:Rexx/ShowFPL.rx (thanks to Edd Dumbill for that one) ARexx program makes it a lot easier for you to select FPL programs to run at startup. It even installs/removes the programs for you!

## 1.58 How to change the FACT

The FrexxEd ASCII Convert Table (FACT) is responsible for how ASCII codes are represented in the editor window, whether the character is lower or upper case and things like what kind of character it is.

Notice that the End Of File string/character is represented by ASCII character code -1, and the string/character written at the right of a line that continues past the right edge of the window is represented by -2.

There is currently no easy user interface way to change the FACT. There is only the FACT() function way.

See also:

"GENERAL EDITING CONCEPTS, Character set"

"PROGRAMMING FREXXED, FPL function descriptions, FACT()"

## 1.59 How to change keymap

The system's global keymap may not always be the best to edit with. Perhaps you would like keyrepeat on the 'return' key (as another famous Amiga editor turns on automatically when you enter that editor), maybe you would like to change the position of some commonly used programming symbols or something else.

Enter the window appearing when the menu item "Customizing->Settings->Globals" is selected and change the 'keymap' field to the name of your desired keymap. If you want FrexxEd to use that on every startup, make sure you save the settings after the change.

ADVANCED INFORMATION:

See also:

"Customizing: change setting", PromptInfo(), SetInfo()

## 1.60 How to change action on keys

All users using a text editor has different backgrounds. Depending on your background, you have different opinions, likings and habits when it comes to which key-sequence that does what you like. You might want the delete line function to exist on the MS-DOS style "control y", or the amiga style "amiga k" or perhaps the UNIX style "control k".

---

FrexxEd provides an easy interface to change the placement of different functions, with `AssignKey()`. Running a small FPL program holding the following line:

```
AssignKey("DeleteLine();", "control y");
```

will make FrexxEd run the `"DeleteLine();"` program whenever "control y" is pressed! By typing something else instead of "control y", you can decide by yourself which key sequence you want to invoke that `"DeleteLine();"` program. Likewise, you can change the program to hold any valid FPL program to be ran when the specified key-sequence is pressed!

Multiple key-presses are specified just by adding the keys in one long sequence. E.g, to make the key-sequence "control x" and "control c" (GNU Emacs "quit all" key sequence) close down FrexxEd, specify a line similar to:

```
AssignKey("QuitAll();", "control x control c");
```

Running simple line like:

```
AssignKey();
```

will make FrexxEd to display a requester to be filled out with the proper information (key sequence and FPL program).

A lot of keys have names recognized by FrexxEd when written inside single quotes. Naming such a key is much easier than trying to enter the output of an actual press on that key. These keys are:

| Key       | Description               |
|-----------|---------------------------|
| ===       | =====                     |
| F1-F10    | The function keys         |
| F11-F20   | The shifted function keys |
| Backspace | The backspace key         |
| Bspc      | As above                  |
| Del       | The delete key            |
| Delete    | As above                  |
| Help      | The help key              |
| Up        | The cursor up key         |
| Down      | The cursor down key       |
| Right     | The cursor right key      |
| Left      | The cursor left key       |
| Escape    | The escape key            |
| Esc       | As above                  |
| Enter     | The return/enter key      |
| Return    | As above                  |
| Tab       | The tabulator key         |
| Space     | The space key             |
| Spc       | As above                  |

#### \* ADVANCED INFORMATION

See 'change mouse' - change the mouse buttons the same way!  
See `AssignKey()` function in the function reference.



## 1.61 How to change icon images

When saving files, FrexxEd will examine the state of the 'save\_icon' info variable, and if that is enabled/on, FrexxEd will store an icon together with the file. If there already is an icon present, nothing will be done to it.

You control which icon FrexxEd will put there, by copying your favourite icons to the FrexxEd:icons/ directory and name them as:

```
<extension>.info -    for files that have file name extensions
.none.info -         for files without file name extensions
.default.info -      for files that is saved and none of the above icons
                      was found/matched
```

If none of the icon files is found when FrexxEd is supposed to save with an icon, FrexxEd will use its own internal icon.

In the following examples, we think of the 'save\_icon' option to be enabled and that no icon is already present.

### EXAMPLES

1. You save a file named 'foobar.c':

FrexxEd will first try to use the file named "FrexxEd:icons/c.info" and if that doesn't exist, FrexxEd will use "FrexxEd:icons/.default.info".

2. You save a file named 'startup-sequence':

FrexxEd will first try to use the file named "FrexxEd:icons/.none.info" and if that doesn't exist, FrexxEd will use "FrexxEd:icons/.default.info".

\* See also the "Filehandling->Icons" section

## 1.62 How to change the menu setup

One of the most basic parts in the Amiga GUI is the menu and the menu items. FrexxEd includes a default menu setup, which holds some of the more important but yet basic functions of a text editor.

SEE Default menu setup

Changing the menu setup is yet again a simple matter of running an FPL program. A menu structure building program can look like:

```
MenuAdd("t", "Project");
MenuAdd("i", "Clear", "Clear();", "amiga c");
MenuAdd("i", "Open", "Open();", "amiga o");
MenuAdd("i", "Save", "Save();", "amiga s");
MenuAdd("i", "About", "About();", "amiga ?");
MenuAdd("i", "Kill", "Kill();", "amiga q");
MenuAdd("i", "Quit all", "QuitAll();", "amiga Q");
```

```

MenuAdd("t", "Customizing");
MenuAdd("i", "Colors");
    MenuAdd("s", "Adjust", "ColorAdjust();"); /* no shortcut */
    MenuAdd("s", "Reset", "ColorReset();"); /* no shortcut */
MenuAdd("i", "Settings");
    MenuAdd("s", "Locals", "PromptInfo(-1);");
    MenuAdd("s", "All locals", "PromptInfo(-2);");
    MenuAdd("s", "Globals", "PromptInfo(0);");
    MenuAdd("s", "Save", "SetSave();");
MenuAdd("i", "ScreenMode", "Screenmode();");

MenuBuild();

```

See also:

```

"Function reference: MenuBuild"
"Function reference: MenuAdd"

```

## 1.63 How to change mouse button actions

FrexxEd is controllable with the mouse. You may mark blocks, place the cursor and select current view (by default).

All mouse actions are of course defineable. A mouse action is in FrexxEd read as a keypress, and therefore is the mouse-modifying done just as you modify keypresses.

The mouse actions are named like:

| name                 | when                                     |
|----------------------|------------------------------------------|
| ~~~~~                | ~~~~~                                    |
| Mouse<button>        | mouse button pressed down                |
| Mouse<button>Up      | mouse button released                    |
| Mouse<button>Drag    | mouse button held down while mouse moved |
| Mouse<button>Double  | mouse button rapidly pressed twice       |
| Mouse<button>Tripple | mouse button rapidly pressed three times |

where <button> is "Left", "Right" or "Middle" (without quotes). The names can be used with the AssignKey() just like with keys.

### EXAMPLE

Open a file (!) when the left mouse button is pressed:

```
AssignKey("Open();", "MouseLeft");
```

### Note:

The right mouse button is only able to read if the 'right\_mbutton' info variable is enabled. Do also note that if that is enabled, you can only bring up the menus when the pointer is on the window title border.

See also:

```
"Function refernce: AssignKey()"
```

## 1.64 Save your changes

When you have altered all info variables to what you believe is a reasonable default environment for your editing, you should save them.

'Customizing->Save...' will bring up a file requester to enable you to save them in the same file as they were loaded from. By default that file is called FrexxEd.default and is positioned in FrexxEd:FPL/. FrexxEd features a command line and tool type option that enables it use another file on startup.

The saved file is a generated FPL program. If you save several different environments in different files, you can easily 'transform' into one of the other environments by simply executing that file as an FPL program. (I.e by selecting the menu item 'Special->Execute FPL file...'.)

NOTE:

FrexxEd only saves info variables in the .default file. All other changes and modifications have to be saved in their own proper ways. Also notice that local info variable will get their 'default' value stored in the .default file, not any local value.

## 1.65 Change the status line

FrexxEd offers since version 1.6 a very customizable status line. You control the contents of the status line by changing the contents of the global info variable called 'status\_line'.

\* SEE Screen orientation, status line

'status\_line' can include a number of different flags which will make different information to appear. The flags are written in the style:

\$<flag>

where <flag> is one or more letters that specifies which data to include and possibly even in which format.

Flags available are:

- a - The ASCII character on the current cursor postion.
- A - The ASCII character number of the current cursor position.
- b - boolean display. This should be follwed by the TRUE letter, the FALSE letter and an info variable name within single quotes (''). See example 3 below.
- c - Column number of the current cursor position.
- C - The column number string! In English, that is "Col:".
- f - The six standard flags in a bunch. They're shown as 'cIbMpR' which means in left-to-right order: buffer is changed, insert mode, block

is being marked, a macro is being recorded, the buffer is loaded/saved using some compression and finally the buffer is read-only.

l - Line number of the current cursor position.

L - The line number string! In English, that is "Line:".

n - Number of changes done to the current buffer.

P - The page number of the current cursor position. Page is simply line number / 66.

p - The line number of the current page.

r - Number of lines in the current buffer.

s - Current buffer size.

x - Display the following information in lowercase hexadecimal.

X - Display the following information in uppercase hexadecimal.

' - Special! By specifying \$('<info variable name>', you can add the contents of any info variable to the status line.

#### EXAMPLES

1. Make a status line that includes the flags and the buffer size:

```
"$f Size: $s"
```

2. Make a status line that includes the ASCII character under the cursor displayed in lowercase hexadecimal and the contents of the 'comment' info variable:

```
"Char: $xA Comment: $('comment'"
```

- 3- Make the status line show a 'Y' if we've switched on the 'appicon' setting and 'N' if we haven't:

```
"AppIcon: $bYN'appicon'"
```

## 1.66 Patch internal functions

FPL programs/scripts in FrexxEd have more than one hundred and fifty internal functions that they can call to create the effect they want. They use Load() to load a file, Search() to search for strings and so on.

There is times when you discover that one or more of those internal functions don't do the exact things that you want them to do. FrexxEd provides a method to do so: hooks!

"Hooks" are functions called before or after an internal function or exception. There can be any amount of hooks, both before and after the internal function/exception. All hooks have the ability to cancel the rest of

the hooks, and if it is a "before"-hook, it can cancel the running of the function/exception it has hooked. If a hook returns a non-zero number, the following functions in the hook-chain will be cancelled.

There are also a few other times you can change the way things happen with hooks. FrexxEd generates named exceptions in some occasions, events that you can hook! One example of such an event is the 'IconDrop' event, which occurs when an icon is dropped on FrexxEd's AppIcon or AppWindow. The event will be called, but 'IconDrop' is no function and does not exist as a function!

Hooks can be made to only get executed if a specified info variable is set to a non-zero value (if numerical) or non zero length (if strings) or the other way around, if the variable is preceded with an exclamation mark.

The hooking is done with the functions Hook() or HookPast(). For further details of how to use it, see the function reference chapter! Notice that the hook-functions must be declared using the exact parameters as the hooked function does, or an entirely new program that can be executed.

Removing hooks is done with the function 'HookClear', which accepts three parameters: the name of the function, the name of the hook to remove and the name of the dependent variable. This function removes all hooks that matches the parameters. I.e, specifying only the hooked function will clear all hooks on that function, specifying only the name of the hook will clear all hooks in the system using that name and specifying only the name of the dependent variable will remove all hooks in the system dependent on that variable! These parameters can be combined in any way. NOTE: HookClear() removes hooks from both Hook() and HookPast() function calls, all matches will be cleared!

Examples  
=====

Example 1. We patch 'Load()' (which can take a string as parameter) to call the function 'Load\_hook()' (which we have declared). Our function must accept just a single string as a parameter. The hook is created like:

```
Hook("Load", "Load_hook");
```

Example 2. We patch the same function again, but this time we want our function to be called with the string "foobar" when it is invoked:

```
Hook("Load", "Load_hook(\"foobar\");");
```

Example 3. We look at the example function "Save()". We decide that we don't want any program to perform a save of the current buffer if it isn't modified:

```
export int Save2(string Filename)
{
    if(strlen(Filename))
        /* It isn't the default buffer that is about to be saved! */
        return (0);

    if(! ReadInfo("changes"))
        /* No changes has been done to the current buffer! */
        return (1); /* don't save! */
}
```

---

```
}  
Hook("Save", "Save2");
```

Example 4. We want a function to be run right after every call to `Output()`, using the same parameters as is sent to `Output()`:

```
HookPast("Output", "My_own_func", "");
```

Example 5. We want a function to be run right after every call to `Output()`, but only if the info variable 'ninja' is non-zero:

```
HookPast("Output", "My_own_func", "ninja");
```

Example 6. We want a function to be run right after every call to `Output()`, but only if the info variable 'ninja' \*IS\* zero:

```
HookPast("Output", "My_own_func", "!ninja");
```

Example 7. We want a function to be run right before every call to `Output()`, but only if the info variable 'ninja' \*IS\* zero:

```
Hook("Output", "My_own_func", "!ninja");
```

Example 8. We want to remove the hook just added with example 7:

```
HookClear("Output", "My_own_func");
```

Example 9. We want to remove all hooks in FrexxEd that depends on the "c-mode" variable:

```
HookClear("", "", "c-mode");
```

Example 10. We want to remove all hooks on the `Output()` function:

```
HookClear("Output");
```

Example 11. We want to call our backup function "Backup" whenever the "AutoSave" exception is generated:

```
Hook("AutoSave", "Backup");
```

Things to consider

=====

Hooks is perhaps the most powerful way to change things in FrexxEd. Not even the built-in functions are spared from the user's customizing capabilities. But think twice before you use this function. In most cases it's not really a patch you want to do, but a clean and nice function defined by yourself. Remember that your hooks should make all kinds of FPL programs to still work if they call the function you have hooked.

Therefore:

- \* Don't change the actual behaviour of a function. If you copy a function created by someone else, I think you would like to have that to work as that person coded it to work!

- \* Don't patch more than necessary. Always consider coding an entire new function instead!
- \* Many hooks make the function run slower. Especially important on machines with non-impressive(!) processors...
- \* Make the patches depend on an info variable as often as possible. E.g, if you create a few special patches to make editing text files easier, then make them depend on the 'TextFile' variable! It also makes it lot easier to remove the patches again if wanted.
- \* If you don't specify an entire FPL program syntax in the second parameter in the Hook() call, the specified function must accept the *\*exact\** same parameters as the hooked function!

NOTE

====

This is very powerful stuff. You can manipulate a lot with this, but think about compatibility with other scripts. Have in mind that you might (sooner or later) receive other FPL programs from us or from other sources, and that you really would want them to work in your environment without too much problems with your patches, don't you?

See also:

"PROGRAMMING FREXXED: Exceptions"  
"Customizing: change setting"

## 1.67 Programming FrexxEd: survey

This manual has earlier stated that FrexxEd is fully programmable, and function driven, but what does that mean? How does that affect us? And most important: how can we take advantage of it?

Every single keystroke invokes a function. Every menu item selection invokes a function, or in some cases a number of functions. Every mouse button press invoke a function. Anything you would like FrexxEd to do is done through a function. Most keypresses invokes the 'Output' function and outputs the string found in the keymap. The menu item "About" invokes the function named 'About'.

Most users of FrexxEd will not have to think about things like that. Most users of FrexxEd will never feel an urge to change a strange behaviour of the editor, never put the functions on other keys than the default settings or add functions that enhances the FrexxEd environment and makes life easier to the user. But some do. To those who would like to control FrexxEd to the very limit, to those who would like to modify the editor to suit their needs and habits, to those, FrexxEd offers a highly controllable and customizable editor through the interpreting language FPL (Frexx Programming Language).

## 1.68 Introduction to FPL

---

FPL (Copyright © 1992-1995 by FrexxWare) is a shared library based interpreting language \*very\* similar to the C programming language. The library is named "fpl.library" and must be located in your LIBS: directory to enable FrexxEd to start.

FPL is an entire programming language with lots of syntax rules, variable handing, functions (defining, declaring and calling), expresions and all those other things that define a programming language. To get fully acquainted with all of that, I must refer to the 'FPLuser.guide' documentation.

This manual will describe how to use FPL in FrexxEd. Function names mentioned in here will either be within quotes ('function') or have a pair of open-close parentheses added to the function name (function()), or sometimes the both ways are applied. The mentioning of a function name is only to inform you of the name, not in any way which arguments it accepts or values it returns, unless otherwise is written.

For a complete reference on all functions that FrexxEd provides to the FPL programs, refer to the 'Functions.guide' also included in this package!

If you end up making any kind of FPL program that you think that the FrexxEd community would be able to take advantage from, or simply enjoy, don't hesitate to send it to us for inclusion in future releases or special FPL packages.

## 1.69 Programming FrexxEd

Programming FrexxEd is very easy. FrexxEd provides a couple of functions that enables execution of specified files, buffers and/or macros:

- \* ExecuteBuffer()  
Executes the current of specified buffer.
- \* ExecuteFile()  
Executes a named file.
- \* ExecuteLater()  
Executes a string later. Later is in this case after all other actions that FrexxEd is "scheduled" to do is done; after the current function.
- \* ExecuteString()  
Executes a string.
- \* AssignKey()  
Assigns an FPL program to a certain key sequence.
- \* Prompt()  
(Placed as default on the short cut "shift escape".) Lets you enter an FPL program in a requester input field. The list view in the requester displays all currently available functions, including functions written and exported by you.

You have also received FPL programs that add such functions to the menu item

---



for fast invokes, and there you may also find functions like "ExecuteBlock" which will execute the current block buffer as an FPL program...

## 1.70 Storing FPL programs

Of course you can store the FPL program wherever you please, on floppies, in ram disks or in the S: directory. FrexxEd supplies by default an FPL directory ("FrexxEd:FPL/") in which all FPL programs is put that is included in the distribution package.

It is recommended that you put your FPL programs elsewhere. You may alter the 'fpl\_path' info variable to make FrexxEd scan other directories when searching for FPL programs to run.

If you change an FPL program that was included in the FrexxEd original archive, we recommend you to keep the original in FrexxEd:FPL/ and to store your new version in another directory which is put before the FPL/ directory in the 'fpl\_path' variable. The original program is likely to get re-stored at its place whenever you install an update!

## 1.71 Documenting FPL programs

Since anybody can extend FrexxEd at any time by adding functions through FPL programs, we have set a small standard of how to document the FPL programs to enable users to share any program with anybody.

Remember to separate all FPL programs as much as possible. Do not put too many different functionalities into one single file, its much better to split them (the files) up.

The standard is built up with a few keyword strings that must be included and below those, a free-form documentation area. That area is although recommended to feature a few headlines. (See the documentation template file, 'FrexxEd:FPL/xxxx.FPL.README'.)

Document file format  
=====

The header must start with a line with at least 20 pound signs (#). Before that, anything can be written/included. After those pound signs there should be a newline again and then should there should follow keywords and descriptions with one keyword per line in the format like: "keyword: description".

Keywords that must be included:

|         |                                                             |
|---------|-------------------------------------------------------------|
| File    | - Name of the file that this file documents.                |
| Author  | - Real and full name of the FPL programmer.                 |
| Email   | - Electronic mail address to the FPL programmer.            |
| Short   | - Short description of this file. Useful for fast searches. |
| Version | - <Version number>.<Release number>                         |
| Date    | - Common amiga-style date string dd.mm.yy                   |

---

Local settings - All local settings this file uses  
 Global settings - All global settings this file uses  
 Keysequence - All keysequences this file occupies  
 Type - What sort of functions that this file contains:  
         Hook/function/key/FACT/Menu.  
 Prereq - Which file or files that this file requires to be run  
         before this file can be used.

End the header with a line like the one that began the header. Following the end of the header is a free-format description of the file.

Example file  
 =====

```
#####
File: FooBar.FPL
Author: Daniel Stenberg
Email: dast@sth.frontec.se, FidoNet 2:201/328
Short: Fools the operator
Version: 1.0
Date: 22.4.94
Local settings: ("_foo" is hidden)
Global settings: "foobar"
Keysequence:
Type: Hook
Prereq:
#####
```

FUNCTION

    Descriptive text about the functionality.

BUGS

    Known bugs or weaknesses

SEE ALSO

    Similar functions

## 1.72 Global symbols in FrexxEd

In FPL, you can declare global symbols in a program. You can even declare symbols to be of the 'export' kind, which make them accessible from any other FPL program. Ex:

```
int export batch_mode=0; /* TRUE/FALSE if in batch mode or not */
```

When this variable get cached, all FPL programs can read and write this variable. The same goes of course for functions, most effectively declared as:

```
int export MyFunction(int foobar)
{
    /* Program body */
}
```

This function will after caching also be accessible everywhere from all FPL

programs.

FPL demands however that files that exports or are using global symbols (variables or functions) must be cached (held in memory) so that FPL can refer to that file if a symbol from it is accessed. FrexxEd allows only FPL programs executed from files to be cached. Programs executed with `ExecuteBlock()` or `Prompt()` will loose their global and/or exported variables as fast as that program ends. As long as you don't want to chache anything, or if you want to try out your new functions, they are prefered to be used before `ExecuteFile()`.

## 1.73 Listing functions

With the function `Prompt()` (as default on "shift escape") you get a list of all current available functions. You may enter a valid FPL program in the requester to execute small FPL programs. All exported FPL functions will also be included in the list.

See also:

"Running commands by name", `Prompt()`

## 1.74 Startup functions

At startup, FrexxEd are searching the current directory and `FrexxEd:FPL/` for an FPL program called `"FrexxEd.default"`. That file is executed and afterwards, the `'startup_file'` info variable tells FrexxEd which FPL program(s) to interpret before anything else happens in the editor (after the screen/window has been opened).

The `'startup_file'` program(s) is/are to be looked upon as a startup-sequence in which you can assign keys, execute FPL programs, design menus and much, much more! If you write your own FPL programs and want them to be inserted in the FrexxEd environment at every startup, such a file execution is perfect. `'FrexxEd:FPL/User.FPL'` was added for that purpose only!

When the startup program (`FrexxEd.default`) is executed, only a subset of the FPL functions are present, which greatly limitates the actions available. (The startup functions are marked with a `"[*]"` symbol in the function reference.)

A startup function that sets all general info variables are generated by the `SetSave()` call, which can be invoked with the menu item `"Customizing->Settings->Save"`.

See also:

"Starting FrexxEd"

## 1.75 ARexx and FPL

The ARexx solution of FrexxEd is as simple as it can be. All input to FrexxEd from the ARexx port is interpreted as an FPL program!

---

Read more in the Functions.guide manual about the functions:

- \* ARexxResult()  
This function lets the user set the ARexx return code and "result" string of the FrexxEd ARexx call.
- \* ARexxRead()  
Returns the contents of an ARexx variable.
- \* ARexxSend()  
Sends a string to a specified ARexx port and received the returned string.
- \* ARexxSet()  
Set the contents of an ARexx variable.
- \* FindPort()  
Find or wait for a system/ARexx port.

## 1.76 Using search and replace from FPL

To use of decent search and replace functions are not smaller from within FPL programs than in regular interactive use, and FrexxEd supplies a powerful interface to fast search and replace functions.

- \* SEE Using search and replace

Search/replace options

~~~~~

When using search and replace interactively, the user can set the options by clicking on the different buttons of the search and replace request windows. FPL programs can of course alter those settings, but can also perform searches and replaces that ignore them.

The options are set in a string of the syntax <flags><operator>, where <flags> are single characters for each flag and <operator> is '+' if the flags to the left should get set, '-' if they should get cleared and '=' if they should be the only flags set.

Available flag-letters are:

```
search_block      'b'
search_case       'c'
search_forward    'f'
search_limit      'l'
search_prompt     'p'
search_wildcard   'w'
search_word       'o'
```

```
#1: SearchSet("fc");
```

Sets the global search flags to 'search_forward' and 'search_case'.

```
#2: Search("a");
```

Will search for the first occurrence of the string 'a' and use the settings

already set by the user or previous programs.

```
#3: Search("a", "f=");
```

Will use the 'search_forward' setting only when searching (this does **not** alter the global settings).

```
#4: Search("a", "f-");
```

Will search as the settings tell, but with the 'search_forward' setting switched off (this does **not** alter the global settings).

Read/Write options

~~~~~

All the mentioned search and replace options are also readable and writeable as global, boolean info variables. They are named like above, with that 'search\_' prefix to all names.

In programs that do a lot of search and/or replace, it can be handy to first set the options the program requires, and then when the program is finished, restore the old options. It is handy to read from and write to the info variable 'search\_flags' which is all search flags represented as an integer. Do not assume that the bits represent flags identical all the time.

SEE ALSO

```
Search()
Replace()
SearchSet()
ReplaceSet()
ReplaceMatch()
```

## 1.77 Dealing with info variable

What's an info variable

~~~~~

Info variables are in plain words numbers or strings associated with a name. The way FrexxEd uses to store and use internal preferences.

FrexxEd has a large amount of internal info variables, that can be read and referenced in the 'change settings' chapter as well as in the function reference manual in the ReadInfo() function.

Any FPL program is also capable of creating, using and saving new custom info variables to be used by that and other FPL programs. This paragraph is intended to shortly describe some things to consider when making and using your own info variables.

How to change a custom info variable

~~~~~

"Custom" variables (that were created by an FPL program) are visible in the general customizing windows (brought up with PromptInfo()) and editable just like all the other are.

How to make one

~~~~~

With the `ConstructInfo()` function, an FPL program can create info variables. They can be given a lot of different characteristics. An info variable is referred to by its name, so first of all you should select what to call it. Use a plain english word that describes pretty good what it stands for, avoid short nonsense words.

- Name, any word of any length. It must be unique, not previously used in FrexxEd. The info variable name is case sensitive.

You must then decide whether the variable should be local or global:

- Local = Each buffer will have its own value/string in the variable
- Global = There is only one value/string for the entire FrexxEd

The info variable must have a type which is string, integer, cycle or boolean.

- Strings hold any length of characters in any combination
- Integers hold signed 32-bit numbers. An integer info variable can have a specified minimum and maximum number to prevent the user from selecting absurd values.
- Cycles hold a number within the specified range. When an info variable modification window is brought up, the different cycle values are represented by different strings.
- Booleans hold a number that is either non-zero or zero, like a digital switch on or off.

You can also set a few different attributes like

- Writeable. This info variable will get its value/string stored on disk together with the rest of the FrexxEd info variables. `SetSave()` is the function that causes them to get stored.
- Read-only. Such an info variable can only get read after it has been created.
- Hidden. A hidden info variable doesn't show up in the normal customizing windows (the alter local/global info variable windows).

Each setting can be sorted into a category to help the user filter out interesting info variables

- Display
- IO = file handling stuff
- Screen
- System = misc things

When you create the info variable, you should also consider one of the most important things

- Default value/string. The value/string that appears in the info variable after it has been created (and no value was stored in and read from the `FrexxEd.default` file).

For the advanced user, `ConstructInfo()` features things like

- `FPLmodify` = make a specified FPL program to get executed each time the created info variable gets changed. (See also chapter 'things to think of' below.)
- `FPLreq` = makes this info variable get a button in a info variable modify window. When that button is pressed, the FPL program known as '`FPLreq`' will be executed. The returned value/string will become the new contents of the info variable.

How to alter one

~~~~~

---

SetInfo() is the function to use when changing the contents of an info variable. To think of when dealing with local info variables is that you can use SetInfo() to set the info variable of a specified buffer, of the current buffer, of the default buffer or of all buffers.

Saving info variable

~~~~~

When SetSave() is invoked, FrexxEd will generate an FPL program that will set all internal info variables to their current value. All custom info variables that were created as 'Writeable' will get their current value stored too. The difference is that the custom info variables' values/strings are stored in a way which makes FrexxEd use that value as default value as soon as the variable is created.

Things to think of

~~~~~

- \* Local info variable get their "default" value stored, not the value from the current or any other buffer (unless, of course, it is identical to the default's value/string). The default value is changed with SetInfo(0, ...).
- \* The 'FPLmodify' program will get called \*each\* time the variable is changed. When using local variables, SetInfo() can set all buffers at one call. It will make the 'FPLmodify' program to get called once for every buffer in memory (including those hidden ones like 'DefaultBlock' and 'DefaultYank').

## 1.78 Debugging FPL programs

Bugs

~~~~~

All programs sometimes fail to do their work properly. By a typing or structural mistake, the program simply doesn't do what the author wants it to. Then, debugging is required.

FPLdb

~~~~~

FrexxEd is since the 1.5 release distributing the 'FPLdb' debugger program within the FrexxEd release archive (in the FrexxEd:bin/ directory) and by using that little tool, you can get a pretty good idea what the FPL programs do.

FPLdb outputs all interpreted lines of all programs that are run in debug-mode.

Debug-mode

~~~~~

By altering the 'fpl_debug' info variable inside FrexxEd, you make all FPL programs execute in debug-mode. A program can also force that itself by invoking the debug() function with a non-zero parameter.

Only programs that run in debug-mode will produce any output in the FPLdb window. All other programs run just as usual.

Notes

~~~~~

- \* Read more in the FPLdb.doc file!

- \* Try not to run more than one program at a time in debug-mode with FPLdb activated as the output will become pretty confusing!
- \* Programs can very well run in debug-mode even if FPLdb isn't started.
- \* You are more than welcome to help us develop FPLdb. Things like break-points and variable watches can very well be made.

## 1.79 Exceptions

FrexxEd generates exceptions on some specific occasions. Those exceptions can be trapped and be programmed to perform actions. A perfect example of this is when a user drops an icon on the FrexxEd AppIcon or AppWindow. The exception generated then is called 'IconDrop', and right after the exception, FrexxEd will do what it thinks should be done when 'IconDrop' is received.

To alter or insert the functioning of an exception, just Hook() or HookPast() the exception just as done with regular internal functions. The exception can be looked upon exactly as if it were a function. The only thing is that you can never call it. Exceptions even get parameters that you can pass to your hook.

Available exceptions are currently:

```
AllEvents
AutoSave
FPL_Error
FileChanged
GetFile
GotFile
MenuSelect
IconClick
IconDrop
ResizeWindow
SameName
SliderDrag
```

## 1.80 AllEvents

NAME      AllEvents

PARAMETERS

int ID -      Function ID

DESCRIPTION

Generated when an event is happening. That is when any function is called within FrexxEd. This exception is invoked very often and \*should\* \*not\* be extensively hooked since that will cause a \_major\_ system slowdown! This exception will get called with an integer parameter that is merely an internal function ID of the function that is to happen right after this exception.

---



NOTE: The number should only be used in purposes that makes \*no\* connection between the function ID and the actual function since the IDs may very well be altered between versions or even releases of FrexxEd.

SEE ALSO

"Exceptions", "Patching internal functions"

## 1.81 AutoSave

NAME AutoSave

PARAMETERS

int BufferID - Buffer ID of the buffer that sent this exception

DESCRIPTION

Generated when 'autosave\_interval' number of changes has been done in a buffer that has the 'autosave' flag enabled. The buffer ID of the buffer that this affects is sent as parameter. Nothing is done outside of a hook when this exception is called. Any actions must be done in the hook.

SEE ALSO

"Exceptions", "Patching internal functions"

## 1.82 BufferKill

NAME BufferKill

PARAMETERS

int ID - BufferID

DESCRIPTION

Generated when the buffer is removed from memory. It is either killed through the Kill() function, or removed due to that FrexxEd is about to exit.

SEE ALSO

"Patching internal functions"

## 1.83 FileChanged

NAME FileChanged

PARAMETERS

DESCRIPTION

Generated when a file is to be saved, and the file on disk has been

---

changed since it was last saved or loaded into FrexxEd.

SEE ALSO

"Exceptions", "Patching internal functions"

## 1.84 FPLError

NAME FPLError

PARAMETERS

|                      |                          |
|----------------------|--------------------------|
| int Line -           | Line number              |
| string Program -     | Program name             |
| string Description - | Error description string |

DESCRIPTION

Generated when an FPL program error has occurred. Default action is to bring up a requester saying so!

SEE ALSO

"Exceptions", "Patching internal functions"

## 1.85 GetFile

NAME GetFile

PARAMETERS

|               |                                    |
|---------------|------------------------------------|
| string Path - | Path of the file to be loaded      |
| string Name - | File name of the file to be loaded |

DESCRIPTION

Generated when a file is to be opened. The parameters sent to this function are the path name and the file name of a file ready for loading. Returning a non-zero value will abort the loading of the file. When using multiple selection or wildcard file loadings, this exception will always occur once for every selected/matching file.

SEE ALSO

"Exceptions", "Patching internal functions"

## 1.86 GotFile

NAME GotFile

PARAMETERS

|               |                                    |
|---------------|------------------------------------|
| string Path - | Path of the file to be loaded      |
| string Name - | File name of the file to be loaded |

DESCRIPTION

Generated when a file has to been loaded into FrexxEd. The parameters

---

sent to this function are the path name and the file name of the file that was loaded.

Returning a non-zero value will *\*NOT\** abort the loading of the file. Use the 'GetFile' exception for such matters! When using multiple selection or wildcard file loadings, this exception will always occur once for every loaded file.

SEE ALSO

"Exceptions", "Patching internal functions"

## 1.87 IconClick

NAME IconClick

PARAMETERS

int Iconified - Deiconfied state TRUE/FALSE.

DESCRIPTION

Generated when the appicon has been doubleclicked.

SEE ALSO

"Exceptions", "Patching internal functions"

## 1.88 IconDrop

NAME IconDrop

PARAMETERS

string FullName - Full path name of the dropped file

DESCRIPTION

Generated when the user dropped an icon in the FrexxEd AppWindow or AppIcon (we won't see any difference between such two invokes). This exception gets the full path name to the icon's file sent as parameter. If a hook function does not abort the exception actions, the file will be inserted at the current position in the current buffer.

SEE ALSO

"Exceptions", "Patching internal functions"

## 1.89 MenuSelect

NAME MenuSelect

PARAMETERS

int Tnum - Title number

int Inum - Item number

int Snum - Subitem number

## DESCRIPTION

Generated when a menu item has been selected. The parameters sent with this exception are the same that can be used as parameters to i.e MenuRead(). Returning a non-zero value will abort the menu item execution.

## EXAMPLE

Make a little function that displays all menu execution programs in requesters before they are performed for real:

```
export int menu_hook(int title_no, int item_no, int sub_no)
{
    string type, str, program, key;
    MenuRead(&type, &str, &program, &key, title_no, item_no, sub_no);
    Request( program );
}
Hook("MenuSelect", "menu_hook");
```

## SEE ALSO

"Exceptions", "Patching internal functions"

## 1.90 ResizeWindow

NAME      ResizeWindow

## PARAMETERS

none

## DESCRIPTION

Generated when the window size gets changed (resizebutton, zoom gadget or changed through settings).

## SEE ALSO

"Exceptions", "Patching internal functions"

## 1.91 SameName

NAME      SameName

## PARAMETERS

|                  |                                     |
|------------------|-------------------------------------|
| string NewFile - | Full path name of the new file      |
| int BufferID -   | Already existing buffer's buffer ID |

## DESCRIPTION

Generated when a file is to be opened, and it uses the same name as another buffer already does. This exception sends the full file name and buffer id as parameters. Returning a non-zero value will abort the loading of the file.

## SEE ALSO

"Exceptions", "Patching internal functions"

---

## 1.92 SliderDrag

NAME SliderDrag

PARAMETERS  
none

DESCRIPTION  
Generated when the vertical slider is dragged.

SEE ALSO  
"Exceptions", "Patching internal functions"

## 1.93 FrexxEd made easy

FREXXED FOR DUMMIES or QUICK GUIDE FOR BEGINNERS  
=====

This document  
~~~~~

This document is aimed to you who haven't previously experienced FrexxEd. Since this is an editor packed with advanced options and tricky features, it is a lot to learn. This is a guide for you who have an interest in getting to know the first basics.

FrexxEd is kind of based on the programmability, but this chapter is meant to avoid all talk about that and to concentrate at the first meeting with FrexxEd.

I will assume that you haven't done any big changes to the setup environment.

Installation
~~~~~

To be able to use FrexxEd, you must have it installed on your hard disk. Since you read this, I assume that you already have done that.

Start-up  
~~~~~

Double-clicking on the FrexxEd icon will start FrexxEd. Shell users can enter "cd frexxed:" followed by "fred".

FrexxEd starts up on a screen. The screen mode and number of colors used by FrexxEd should be the same as your workbench screen uses.

Menu
~~~~~

The menu strip attached to the FrexxEd screen has a custom way of specifying key qualifiers: "C" is for 'control', "A" is for 'amiga' and "Alt" is for 'Alt'. That makes a key sequence that looks like "AC-b" equal the key press 'amiga control b'. (Note that both the left and right qualifiers are valid.)

Default menu description

Preferences  
~~~~~

The first and easiest things you can do to improve the look and feeling of FrexxEd is to change screenmode, select colors and change fonts. If you would prefer FrexxEd to start up in a window by default, you should alter the 'window' cycle gadget in the Customizing->Globals->Screen window and then resize and position the window as you want it to be at start-up.

Select "Customizing->Save" and accept the default file name.

Macros

~~~~~

If you would like your FrexxEd to feature any macros at startup, you should record the macros as usual, and then save them in the FrexxEd:Startup/ drawer with .macro extensions. All those macros are loaded at startup time.

#### Requesters

~~~~~

FrexxEd is using the reqtools.library for requester handling. If you would like to alter i.e the sizes (and other things) of the font/file requesters, you must use the reqtools prefs utility ((C) by Nico Francois).

Advanced setup

~~~~~

Try the ARexx script FrexxEd:Rexx/ShowFPL.rx. It automatically generates an amigaguide document which you can use to install/deinstall FPL programs that your FrexxEd should execute at startup. FPL programs are run to extend the capabilities of FrexxEd.

## 1.94 Default menu setup

#### Default menu description

~~~~~

The default menu is localized, and exists in several different languages. This document deals with the ones existing when this is written.

The menu description will be put up like:

- * Menu title name (in english/svenska/nederlands/polski/deutch)
- *I Item name (in english/svenska/nederlands/polski/deutch)
 - English description
- *S Sub item name (in english/svenska/nederlands/polski/deutch)
 - English description

from left to right, top to bottom...

Menu titles

~~~~~

- \* Project/Arkiv/Projekt/Projekt/Projekt
- \* Block/Block/Blok/Blok/Block
- \* Edit/Editera/Verander/Edycja/Bearbeiten
- \* Move / Förflytta / Verplaats/ Ruch/Widok / Bewegen

- \* Search/replace Sök/ersätt Vind Szukanie Suchen
- \* Customizing/Inställningar/Veranderen/Ustawienia/Einstellungen
- \* Special/Special/Special/Specialne/Spezial

## 1.95 Project menu title

- \*I Clear/Rensa/Schoon/Wyczyść/Löschen
    - This clear/empty the current buffer. If modified, a requester will appear, querying if this really is what you want.
  - \*I New/Ny/Nieuw/Nowy/Neu
    - A new empty buffer without name is created. (It will be visible as "\*noname\*" in the status line.)
  - \*I Open/Öppna/Openen/Otwórz/Öffnen
    - Pops up a file requester. The selected file is loaded into a new buffer.
  - \* SEE Loading files
  - \*I Load/Läs in/Laden/Wczytaj/Laden
    - Pops up a file requester. The selected file is loaded and replaces the current buffer. If the current buffer is modified, a requester will appear to ask if you really want to abandon your changes. If more than one file is selected, the first will be loaded into the current buffer, but the rest will be loaded into new buffers. NOTE: files larger than approximately 60KB can only get loaded into a registered FrexxEd.
  - \* SEE loading files.
  - \*I Insert file/Skjut in/Voeg file in/Dołącz zbiór/Einfügen
    - Pops up a file requester. The selected files are inserted at the current position in the buffer.
  - \*I Rename/Döp om/Hernoem/Zmień nazwę/Umbenennen
    - Enter a new file name in the file requester. The current buffer will then get renamed to the entered name.
  - \*I Save/Spara/Bewaar/Zapisz/Sichern
    - Store the contents of the buffer on disk. If the buffer is unnamed, a requester will appear, prompting for a file name to use.
  - \* SEE Saving files
  - \*I Save changes/Spara ändringar/Bewaar veranderingen/Zapisz zmiany/Änderungen sichern
    - Store the contents of the buffer on disk, but only if the buffer has been changed since last loaded or saved. If the buffer is unnamed, a requester will appear, prompting for a file name to use.
  - \*I Save as/Spara som/Bewaar als/Zapisz jako/Sichern als
    - Store the contents of the buffer on disk in the specified file name.
-

A file requester will appear to enable file name to get entered. If the specified file name already exists, you will be asked if that file should be overwritten.

- \*I Save All/Spara allt/Bewaar alles/Zapisz wszystkie/Alles sichern
  - Store all buffers in memory to disk.
- \*I Save all changes/Spara alla ändringar/Bewaar alle veranderingen/Zapisz wszystkie zmiany/Alle Änderungen sichern
  - Store all modified buffers in memory to disk.
- \*I Save project/Spara projekt/Bewaar projekt/Zapisz projekt/Projekt sichern
  - To save a project is to save information about all buffers currently in memory. Which buffers, cursor positions and other information is stored. This function prompts for a file name to use with a regular file requester. The projects do have an especially made drawer where they should be put for easy and fast project overview.
- \*I Load project/Läs in projekt/Laden projekt/Wczytaj projekt/Projekt laden
  - Load a project. Enter project name in the file requester and all will be set up like saved in the project file.
- \*I Print/Skriv ut/Print/Drukuj/Drucken
  - Sends the current buffer to the printer.
- \*I Iconify/Ikonifiera/Iconify/Ikonifikacja/Iconifizieren
  - Close down the FrexxEd screen/window and make it exist as an AppIcon only. Doubleclick on the AppIcon to make the screen/window appear again.
- \*I About/Om FrexxEd/Over/O autorach/Über
  - Displays an information window. Tells about who made FrexxEd, how much memory FrexxEd has allocated and how much memory there is free in the system.
- \*I Kill/Stäng/Sluiten/Zamknij okno/Schliessen
  - Kills and exits the current buffer. If the buffer is modified, you will be asked whether you really want to discard your changes.
- \*I Quit all/Avsluta/Stoppen Alles/Zamknij wszystkie/Alles Beenden
  - Exits FrexxEd.

## 1.96 Block menu title

- \*I Mark/Markera/Markeren/Zaznacz/Markieren
    - Starts or stops "regular" block marking.
  - \* SEE Block marking
  - \*I Mark rectangle/Markera rektangel/Markeer vierkant/Zaznacz prostokąt/Kolumne markieren
    - Starts or stops rectangular block marking.
  - \*I Cut/Klipp ut/Knip/Wytnij/Ausschneiden
-



- Cuts the block out of the buffer. The marked block is removed and copied into the block buffer.
  - \*I Cut append/Klipp ut & lägg till/Knip bijvoegen/Wytnij i doîâcz/  
Ausschneiden & Anhängen
    - Cuts the block out of the buffer and appends it to the end of the block buffer.
  - \*I Copy/Kopiera/Kopieer/Skopiuuj/Kopieren
    - Copies the marked block to the block buffer.
  - \*I Copy append/Kopiera & lägg till/Kopieer bijvoegen/Skopiuuj i doîâcz/  
Kopieren & Anhängen
    - Copy the marked block to the end of the block buffer.
  - \*I Delete/Radera/Verwijder/Skasuj/Löschen
    - Deletes the marked block from the buffer. The block buffer is \*not\* affected.
  - \*I Insert/Skjut in/Invoegen/Wstaw/Einfügen
    - Insert the block buffer at the current position as a "regular" block.
  - \*I Insert rectangle/Skjut in rektangel/Invoegen vierkant/Wstaw prostokât/  
Kolumne einfûgen
    - Insert the block buffer at the current position as a rectangle block.
  - \*I Load/Läs in/Laden/Wczytaj/Laden
    - Brings up a file requester and loads the specified file into the block buffer.  
NOTE: files larger than approximately 60KB can only get loaded into a registered FrexxEd.
  - \*I Save/Spara/Bewaar/Zapisz/Sichern
    - Brings up a file requester and stores the current block buffer or marked block as a file with the specified name.
  - \*I Print/Skriv ut/Print/Drukuj/Drucken
    - Sends the marked block to the printer.
  - \*I Edit blocks/Editera block/Verander bloks/Edycja bloku/Blöcke bearbeiten
    - Lets the user select which block buffer to edit. Then makes that block buffer visible in the window and enables editing in it. By default, there will only exist one block buffer called DefaultBlock.
  - \*I Export to clipboard/Exportera till klippotek/Exporteer naar clipboard/  
Wstaw do clipboard'a/Clipboard exportieren
    - Exports the marked block or the block buffer to the clipboard. Thus enabling other programs to access the text.  
NOTE: only available in the registered version.
  - \*I Import from clipboard/Importera från klippotek/Importeer van clipboard/  
Pobierz z clipboard'a/Clipboard importieren
    - Imports the clipboard contents to the block buffer.
  - \*I Move/Indentera/Verplaats/Przesuï/Verschieben
    - Starts an interactive mode in which you can move the marked block horizontally by using the cursor and tab keys. Cancel the operation
-

with escape or q, and put the block on the selected position by pressing return.

\*I Sort/Sortera/Sorteer/Posortuj/Sortieren

- Brings up a small requester in which you can decide how to sort the block buffer or marked block. The field number is which white space separated field it should sort according to, forward means in a-z order and case sensitive makes difference between 'A' and 'a'.

\*I Change case/Byt gemen/versal/Verander hoogte/Zamieï wielkość liter Groß/Klein wechseln

- Changes case on the letters in the marked block. Marking a block holding the text "Hello" and invoking this function will convert the text to "hELLO".

\*I Lower case/Till gemener/Verlaag hoogte/Zamieï na maïe literary/Block Groß

- Converts the letters in the marked block to uppercase. If the text "Hello" is marked before invoking this function, it will convert the text to "HELLO".

\*I Upper case/Till versaler/Verhoog hoogte/Zamieï na duïe literary/Block Klein

- Converts the letters in the marked block to lowercase. If the text "Hello" is marked before invoking this function, it will convert the text to "hello".

## 1.97 Edit menu title

\*I Delete line/Radera rad/Verwijder regel/Skasuj linię/Zeile löschen

- Removes the current line from the buffer.

\* SEE Erasing text

\*I Delete to EOL/Radera till slut på rad/Verwijder naar EVR/Skasuj do końca linii/Bis Zeilenende löschen

- Removes all characters to the end of the current line.

\*I Delete word/Radera ord höger/Verwijder woord/Skasuj słowo/Wort löschen

- Deletes the word immediately under/to the right of the cursor.

\*I Backspace word/Radera ord vänster/Backspace woord/Skasuj słowo z lewej/Wort links löschen

- Deletes the word immediately under/to the left of the cursor.

\*I Fold/Veck

- Contains a submenu with all the fold-related menu items
- \* See Using folds

\*S Delete/Radera

- Remove the fold at the current position, and bring back the text to the normal state.

\*S Show/Visa

- Display the contents of the fold at the current line.
- \*S Hide/göm
  - Hide the fold at the current line
- \*S Show exclusive/Visa enbart
  - Show only the contents of this fold.
- \*S Hide exclusive/Göm enbart
  - Abort the 'show exclusive' mode.
- \*S Show all/Visa alla
  - Show all folds.
- \*S Hide all/Göm alla
  - Bring all folds to the hidden state.
- \*I Undo/Ångra/Maak ongedaan/Cofnij zmiany/Rückgängig machen
  - Undoes the latest change. Repeated invokes will undo earlier changes.
  - \* See Undo concepts
- \*I Undo restart/Ångra omstart/Herstart ongedaan maken/Undo Restart/  
Neu Rückgängig
  - Restart the undo session. This enables the user to start undoing the changes done by recent 'undo' invokes.
- \*I Yank/Skjut in slask/Yank/Yank/Löschpuffer
  - Inserts the last sequence of deleted letters. Character deletes that removes more than one character add the deleted string to the yank buffer.
- \*I Insert buffer/Skjut in buffer/Invoegen buffer/Wstaw bufor/  
Puffer einfügen
  - Pops up a requester asking for which buffer to insert at the current position.

## 1.98 Move menu title

- \*I Maximize view/Maximera vy/Maximale grote scherm/Powiëksz widok/  
Ansicht maximal
    - Make the current view the only view in the window.
    - \* SEE View concepts
  - \*I Remove view/Stäng vy/Verwijder scherm/Usuï widok/Ansicht entfernen
    - Hide this view. This only makes the view dissapear. The buffer will remain in memory, just not visible.
  - \*I Resize view/Ändra storlek på vy/Verander scherm/Zmieï rozmiar/  
Größe ändern
    - If you by some reason don't want to drag in the status line to resize the current buffer. Selecting this menu item lets you enter the resize manually.
-

- \*I Goto next view/Nästa vy/Ga naar volgende view/Pokaû nastëpny/  
Nächste Ansicht
    - Jumps to the next view in the window. If there is only one view, nothing will happen.
    - \* SEE Using multiple buffers
  - \*I Goto previous view/Föregående vy/Ga naar vorige view/  
Pokaû poprzedni/Vorige Ansicht
    - Jumps to the previous view in the window. If there is only one view, nothing will happen.
  - \*I Next buffer/Nästa buffer/Volgende buffer/Nastëpny bufor/  
Nächster Puffer
    - Jumps to the next buffer in the list. If the buffer isn't visible, the current view will display the next buffer. If the buffer is visible, the cursor will be moved there.
  - \*I Previous buffer/Föregående buffer/Vorige buffer/  
Poprzedni bufor/Voriger Puffer
    - Jumps to the previous buffer in the list. If the buffer isn't visible, the current view will display the previous buffer. If the buffer is visible, the cursor will be moved there.
  - \*I Split view/Dela vy/Splits scherm/Rozdziel widok/Ansicht teilen
    - Make two views display this buffer. Each view gets its own cursor position, block mark, etc.
  - \*I Right word/Nästa ord/Rechts van woord/  
Przesuï sië o sîowo w prawo/Wortschritt rechts
    - Moves the cursor one word to the right.
  - \*I Left word/Föregående ord/Links van woord/  
Przesuï sië o sîowo w lewo/Wortschritt links
    - Moves the cursor one word to the left.
  - \*I Match character/Motsvarande tecken/Vergelijk karakter/  
Znajdû odpowiadajâcy znak/Zeichenpaar suchen
    - Moves the cursor to the character that matches the one currently under the cursor. Matching characters are by default (), [], <> and {}.
  - \*I Goto buffer/Gå till buffer/Ga naar buffer/Przejdû do bufora/  
Puffer wählen
    - Moves the cursor to the buffer selected in the requester. If the buffer isn't visible, the current view will be made to display it. If the buffer is visible, the cursor will be put in that view.
  - \*I Goto line/Gå till rad/Ga naar regel/Przejdû do linii/  
Zeile wählen
    - Moves the cursor to the line entered in the requester.
  - \*I Goto latest change/Gå till senaste ändring/  
Ga naar laatste verandering/Przejdû do ostatniej zmiany/  
Letzte Änderung
    - Moves the cursor to the position of the last change. Repeated invokes move the cursor to earlier changes.
-

NOTE: Depending on what the changes actually were, the positions will not be exact.

## 1.99 Search menu title

- \*I Repeat search forward/Repetera sökning framåt/  
Herhaal vinden voorwaards/Powtórz szukanie w przód/  
Vorwärtssuche wiederh.
  - Continue to search forward for the search string. If no previous search has been done, the search requester will appear for the user to fill in.
- \* SEE Search and replace
- \*I Repeat search backward/Repetera sökning bakåt/  
Herhaal vinden achterwaards/Powtórz szukanie wstecz/  
Rückwärtssuche wiederh.
  - Continue to search backward for the search string. If no previous search has been done, the search requester will appear for the user to fill in.
- \*I Search/Sök/Vind/Szukaj/Suchen
  - Bring up the search requester. When 'OK' has been pressed, it searches according to the selections.
- \*I Repeat replace/Repetera ersättning/Herhaal vervangen/  
Powtórz zamianę/Ersetzen wiederholen
  - Continue a previous replace session. If no previous replace has been done, the replace requester will appear for the user to fill in.
- \*I Replace/Ersätt/Vervang/Zamień/Ersetzen
  - Bring up the replace requester. When 'OK' has been pressed, it replaces according to the selections.
- \*I Block to search buffer/Blok till söktext/Blok naar vind buffer/  
Blok do bufora poszukiwań/Blok in Suchpuffer kopieren
  - Copies the contents of the marked block or block buffer to the search buffer. A following search (or replace) will then search for that text.
- \*I Block to replace buffer/Blok till ersättningstext/  
Blok naar vervang buffer/Blok do bufora zamiany/  
Blok in Ersatzpuffer kopieren
  - Copies the contents of the marked block or block buffer to the replace buffer. A following replace will then replace the search string with that text.

## 1.100 Customizing menu title

- \*I Colours/Färger/Kleuren/Kolory/Farben
- \*S Adjust/Justera/Verander/Ustaw/Einstellen

- Brings up a palette requester enabling the user to change the palette used in the FrexxEd screen.
  - \*S Reset/Återställ/Reset/Ustawienia początkowe/Zurücksetzen
    - Resets the colours back to the colors set in the system preferences.
  - \*I Locals/Lokala/Lokale/Lokalne/Lokale Einst.
    - Brings up a requester window that hold buffer unique preferences. Altered preferences affect the current buffer only.
  - \*I All locals/Alla lokala/Alle lokale/Wszystkie lokalne/Alle lokalen Einst.
    - Brings up a requester window with the buffer unique preferences. When 'OK' is selected, the preferences is set to all buffer in memory, as well as the default values for the preferences. Newly created buffers will get the values from the default values.
  - \*I Globals/Globala/Globalen/Globalne/Globale Einst.
    - \*S Screen/Skärm/Scherm/Ekran/Bildschirm
      - Brings up a requester window with the global screen preferences.
    - \*S IO/IO-hantering/IO/ Operacje we/wy Ein-/Ausgabe
      - Brings up a requester window with the global IO preferences.
    - \*S Display/System Vyer/System Scherm/Systeem Wyświetlanie/System Bildschirm/System
      - Brings up a requester window with the global display and system preferences.
    - \*S All globals/Alla globala/Alle globale/Wszystkie globalne/Alle globalen Einst.
      - Brings up a requester window with all global preferences. If the screen size is small or if the font size is big (or both), this window may not fit on your screen. Cancel the window by pressing escape and use one of the above three specialized windows in those cases.
  - \*I Program/Program/Program/Program/Program
    - This menu item doesn't do anything! It is here for one reason only: When custom FPL programs is run, they should add their own preference requesters as sub items to this menu item.
  - \*I Save/Spara/Bewaar/Zapisz/Sichern
    - Brings up a file requester and saves the default setup with that file name. That file name is by default called FrexxEd:FPL/FrexxEd.default and that will be used on each normal FrexxEd startup.
  - \* SEE Change start-up environment
  - \*I Font/Teckensnitt/Font/Czcionka/Zeichensatz
    - SEE Change fonts
    - \*S System font/Systemtecken/Systeem font/Systemowa/Systemzeichensatz
      - This lets the user select which fixed width font FrexxEd should use as 'system' font. It is used in the main text screen and status line.
    - \*S Request font/Requesttecken/Verzoek font/Űâdaï systemowych/
-

Fensterzeichensatz

- This lets the user select which font FrexxEd should use as 'request' font. It is used in the menu and all requesters.

\*S Both fonts/Båda/Allebei de fonts/Obie/Beide Zeichensätze

- This lets the user select which fixed width font FrexxEd should use. This function sets both system and request fonts at the same time.

\*I Screenmode/Skärläge/SchermMode/Tryb ekranu/Bildschirmmodus

- Brings up a screenmode requester and lets the user select in which screenmode the FrexxEd screen should run. When FrexxEd is used as window, this function sets the mode to use next time FrexxEd is used as a screen!

\*I Clone WB/Kopiera WB/Kopieer WB/Skopiuj WB/Kopieren WB

- Clones the Workbench screen. This makes the FrexxEd screen look as similar as the WB screen as possible. It copies screen size, number of colors, the palette, the fonts, etc. If FrexxEd is used as a window on a public screen, this function will clone everything from the host screen which FrexxEd is on.

\*I Reset FACT/Återställ FACT/Reset FACT/Ustawienie początkowe FACT/  
FACT zurücksetzen

- Reset the FACT to internal default. The FACT is the internal control table which controls how different ASCII codes should be represented on screen.

\* SEE Character set and Change the FACT

## 1.101 Special menu title

\*I Macro record/Makroinspelning/Makro opnemen/Nagrywanie makra/  
Makro aufnehmen

- Starts or stops macro recording. To record a macro is to make FrexxEd remember a sequence of actions and the ability to re-play those actions again when the given key sequence is pressed.

\* SEE Using macros

\*I Edit macros/Editera makro/Verander makros/Edycja makra/Makros bearbeiten

- Lets the user select a macro and displays it on screen. Thus enabling editing of the macro.

NOTE: This requires at least some knowledge of the programming language FPL.

\* SEE Programming FrexxEd

\*I Load macro/Load macro/Load macro/Wczytaj makro/Makro laden

- Loads a previously saved macro. The file name is entered in a regular file requester.

\*I Save macro/Save macro/Save macro/Zapisz makro/Makro speichern

- Saves a previously recorded macro. Which macro to save is selected in a list requester and the file name is entered in a regular file requester.

- \*I Execute buffer as FPL/Kör buffer som FPL/Voer buffer als FPL uit/  
Wykonaj bufor/Puffer als FPL ausführen
    - Runs the contents of the current buffer as an FPL program.  
NOTE: This requires at least some knowledge of the programming language FPL.
  - \* SEE Programming FrexxEd
  - \*I Execute block as FPL/Kör block som FPL/Voer blok als FPL uit/  
Wykonaj blok/Block als FPL ausführen
    - Runs the contents of the marked block or block buffer as an FPL program.  
NOTE: This requires at least some knowledge of the programming language FPL.
  - \*I Execute FPL file/Kör FPL program/Voer FPL bestand uit/  
Wykonaj zbiór/Datei als FPL ausführen
    - Lets the user select a file that is run as an FPL program.  
NOTE: This requires at least some knowledge of the programming language FPL.
  - \*I Prompt/Prompter/Prompt/Prompt/Befehle
    - Brings up a requester holding a list with all FPL functions available at the moment. A full FPL program can be entered in the input field, or a function that accepts invoke without parameter can be doubleclicked.  
NOTE: This requires at least some knowledge of the programming language FPL.
  - \* SEE Running commands by name
  - \*I Assign key/Tilldela tangent/Ken toets toe/Tastenzuweisung
    - Enables the user to assign a FPL program execution to a key sequence.  
NOTE: This requires at least some knowledge of the programming language FPL.
  - \* SEE Change keys
  - \*I Fastkey buffer exec/Snabbexekvera buffer/Puffer Taste zuweisen
    - Lets the user assign a key sequence that will execute the current buffer as an FPL program.  
NOTE: This requires at least some knowledge of the programming language FPL.
  - \*I Buffer info/Bufferinformation/Buffer informatie/Informacje o buforze/  
Pufferinformation
    - Displays information about the current buffer in a window. The information includes size, tab size, changes, file name, file path, date and other data.
  - \*I Help/Hjälp/Hilfe
    - \*S General/Allmänt/Allgemein
      - Starts 'amigaguide' displaying Frexxed:docs/FrexxEd.guide.
    - \*S Functions/Funktioner/Funktionen
-



- Starts 'amigaguide' displaying Frexxed:docs/Functions.guide.

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