

AGAiff

COLLABORATORS

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Contents

1	AGAiiff	1
1.1	AGAiiff Docs	1
1.2	AGAiiff Introduction	1
1.3	AGAiiff Installation	2
1.4	AGAiiff Using AGAiiff	2
1.5	AGAiiff Main Window	2
1.6	AGAiiff Main Window - Screen Mode Gadgets	3
1.7	AGAiiff Main Window - Picture Size Gadgets	3
1.8	AGAiiff Main Window - Save Range Gadgets	3
1.9	AGAiiff Main Window - Load Format Gadget	3
1.10	AGAiiff Main Window - Save Format Gadgets	3
1.11	AGAiiff Main Window - Color Format Gadgets	4
1.12	AGAiiff Picture Screen	5
1.13	AGAiiff Preferences	5
1.14	AGAiiff - ARexx Port	6
1.15	AGAiiff - ARexx Commands	7
1.16	AGAiiff - ARexx Commands	7
1.17	AGAiiff - ARexx Commands	7
1.18	AGAiiff - ARexx Commands	8
1.19	AGAiiff - ARexx Commands	8
1.20	AGAiiff - ARexx Commands	9
1.21	AGAiiff - ARexx Commands	9
1.22	AGAiiff - ARexx Commands	10
1.23	AGAiiff - ARexx Commands	10
1.24	AGAiiff - ARexx Commands	10
1.25	AGAiiff - ARexx Commands	11
1.26	AGAiiff - ARexx Commands	11
1.27	AGAiiff - ARexx Commands	12
1.28	AGAiiff - ARexx Commands	12
1.29	AGAiiff - ARexx Commands	12

1.30	AGAiiff - ARexx Commands	13
1.31	AGAiiff - ARexx Commands	13
1.32	AGAiiff - ARexx Commands	14
1.33	AGAiiff - ARexx Commands	14
1.34	AGAiiff - ARexx Commands	14
1.35	AGAiiff - ARexx Commands	15
1.36	AGAiiff - ARexx Commands	15
1.37	AGAiiff - ARexx Commands	16
1.38	AGAiiff - ARexx Commands	16
1.39	AGAiiff - ARexx Commands	16
1.40	AGAiiff - ARexx Commands	17
1.41	AGAiiff - ARexx Commands	17
1.42	AGAiiff - ARexx Commands	18
1.43	AGAiiff - ARexx Commands	18
1.44	AGAiiff - ARexx Script 'Startup.agaiiff'	18
1.45	AGAiiff - ARexx Script 'SaveRawAndCopper.agaiiff'	19
1.46	AGAiiff - ARexx Script 'SaveSprites.agaiiff'	19
1.47	rxs_info	19
1.48	AGAiiff - Running ARexx Scripts	19
1.49	AGAiiff Development History	19
1.50	AGAiiff What's left ?	19
1.51	AGAiiff Comprehensive Contents	20

Chapter 1

AGAiff

1.1 AGAiff Docs

```
++*****++
++          ++
++    A G A i f f Version 1.0          ++
++          ++
++        by Michael Krause          ++
++          ++
++*****++

01.  Introduction
02.  Installation
03.  Using AGAiff
04.  Main Window
05.  Picture Screen
06.  Preferences
07.  ARexx Port
08.  History
09.  What's left ?

10.  I N D E X
```

YOU MAY DO ANYTHING WITH THIS PROGRAM AS LONG AS
ALL FILES ARE SPREAD TOGETHER !
(also see <What's left ?>)

1.2 AGAiff Introduction

AGAiff is an IFF-to-RAW converter which can load all ILBM graphics supported by the AGA chipset. It is also able to save 24 Bit colors and sprites wider than 16 pixels. Some features make this program quite attractive:

- Running entirely under OS
-

- Coded as a Commodity
- Coded completely in fast Assembler
- Font-sensitive User Interface
- <MANY> different save formats
- Powerful ARexx-Port, supporting all stuff from the GUI
- Runs even from small Assembler Workdisks if you don't need ARexx, Hotkey and all Displaymodes
- ... and more !

1.3 AGAiiff Installation

AGAiiff requires:

- MC68020
- Kickstart 3.0 (Version 39)
- LIBS:asl.library

Making life much easier:

- LIBS:commodities.library
- LIBS:rexxsyslib.library
- REXXMaster running
- Provided ARexx-Scripts in REXX:
- HardDisk
- Workbench running -> All displaymodes can be used..

Note:

To enable AA-ChipSet don't forget 'SetPatch' in your startup-sequence.
Nevertheless, AGAiiff runs even on the old ChipSet !

1.4 AGAiiff Using AGAiiff

AGAiiff can be started from both Workbench or CLI. When loading from WB, you can specify whether the window is to pop up immediately using the icon's tool type 'CX_POPUP=NO/YES'. If there's already a copy of AGAiiff running, it's window is opened and brought to front - no second copy is run.

1.5 AGAiiff Main Window

The upper left corner of the window represents a small ScreenMode requester, showing all monitors/displaymodes available in the system. On the right side of that window you set the Load Format, Save Format and Colors Format. Using the whole width is a text line showing messages and errors. Beneath it there are gadgets for loading and saving files, for Running ARexx Scripts, removing the commodity from system and for changing the Picture Size and Save-Range. To switch between this Window and the Picture Screen, use right mousebutton.

1.6 AGAiiff Main Window - Screen Mode Gadgets

The listview gadget shows all available monitors and displaymodes, like in DPaint AGA. The only difference is that you select HAM or Halfbrite in the Gadget below. If the program can't find any entries for this list - that's true when Workbench is not running - a default list is used. And here we have another advantage of this tool: It will support most future extensions on the chipset, because the graphics.library supports the code with the new displaymodes !

Selecting 'RESHOW' when a picture is in memory forces AGAiiff to redisplay it with the new attributes selected here. 'RESTORE' restores the old values.

1.7 AGAiiff Main Window - Picture Size Gadgets

This feature will be only useful, when RAW pictures are loaded and the original size has to be adjusted. And because you can't load RAWs, these gadgets are disabled. Sorry again.

1.8 AGAiiff Main Window - Save Range Gadgets

If you don't want to save the whole picture, you can here select a range. After loading a picture, the range includes the whole picture. Yes, that's all.

1.9 AGAiiff Main Window - Load Format Gadget

This version does only support loading of IFF-ILBM graphics, so this Gadget is disabled. Sorry.

1.10 AGAiiff Main Window - Save Format Gadgets

Upper gadget:

IFF-ILBM

Not implemented yet.

RAW Normal

Saves raw, uncrunched data, one bitplane after the previous one, beginning with the lowest-order plane.

RAW Modulo

(Often seen as 'RAW-BLIT')

The same as RAW normal, but the planes are interleaved, that means e.g. when you have a 3 planes picture:

- 1. Line / 1. Plane
 - 1. Line / 2. Plane
 - 1. Line / 3. Plane
-

- 2. Line / 1. Plane
- 2. Line / 2. Plane
- etc.

That's the same as setting the SA_Interleaved tag when opening an Intuition-Screen.

No Picture

Saves no bitplane data, and so lets you save pure color data.

Copper

Saves a copperlist according to the lower color gadget (12Bit or 24Bit), initializing the color values.

Note: No color data else is attached (Top/Bottom gadget) !

Sprite

Saves sprite data which is the same as RAW Modulo data, but with Control data at the top and at the bottom. The control data's length corresponds to the width of one line. Sprites must have a width of 16, 32 or 64 pixels and a depth of 2 or 4 planes ! 4-planed Sprites must be displayed using the attaching of two Sprite channels, so it is divided into two sprites with each 2 planes. The sprite with the lower two planes is saved at first.

Mask

Saves mask data, where one pixel represents a pixel with a color unlike 0 in the original picture. Saves the same plane copied for each other plane in RAW Modulo format.

Note: No color data else is attached (Top/Bottom gadget) !

Mask 1plane

Same as before, but only 1 plane.

Lower gadget:

File

Saves a normal file

dc.w

Saves an ASCII Assembler data dump using the dc.w directive. In the preferences you can specify what data width to use, that means dc.b, dc.w or dc.l !

P! - gadget:

Opens the Save Format Preset Window. Look into the ARexx chapter for details.

1.11 AGAiff Main Window - Color Format Gadgets

Upper gadget:

No Colors

Don't append any color data.

Top

Attach color data at the top of the file.

Bottom

Append color data.

Lower gadget:

12 Bit

Only 12 Bit data, good old A500 style (\$000,\$f00,\$aaa etc.)

24 Bit

24 Bit data, as one longword per color, e.g.

\$00ff0000 for red

\$00ff8800 for brown etc.

24 Bit HL

24 Bit data, saves higher and lower nibble of the RGB values separately, and that first all higher parts of all colors, then all lower parts of them.

24 Bit HLi

Works as the one before, but 'interleaves' the High / Low data of each color, that means: higher part of first color, lower part of first color, higher part of second color, lower part of second color etc.

24 Bit LH

Works as 24 Bit HL, but first saves lower part, then the higher one.

24 Bit LHi

Works as 24 Bit HLi, but first saves lower part, then the higher one.

Pheew. So that's that.

1.12 AGAiiff Picture Screen

When you've loaded a picture, AGAiiff tries to open a screen in the desired resolution and depth. The resolution is changed to a default resolution if needed. When this Screen is active, you can switch between there and the Main Window using the right mousebutton. Using the left one, you can select a range the save functions will operate on.

1.13 AGAiiff Preferences

Use Topaz/8 Decides whether the program is font-sensitive.

Data DC-Size Specifies the kind of data files written as 'dc.w'-Data will have (dc.b / dc.w / dc.l).

Use Activates the new selections.

Close-Gadget Cancels the new selections.

1.14 AGAiiff - ARexx Port

Control Functions

USETOPAZ
DCSIZE
VERSION
STATUS
QUIT

User Communication Functions

REQUESTFILE
REQUEST
TYPETEXT

Graphical User Interface Control Functions

LOCKGUI
UNLOCKGUI
SHOWGUI
HIDEGUI

Preset List Control Functions

CLEARPRESETS
ADDPRESET
SETPRESET

ARexx List Control Functions

CLEARAREXXMENU
ADDAREXXMENUITEM

I/O Functions

LFORMAT
SFORMAT
CFORMAT
LOAD
SAVE
RESHOW
NOSHOW
RESTORE

Picture Modifying Functions

PICSIZE
DEPTH
DISPMODE
RANGE

ARexx Scripts provided with this package

Startup
SaveRawAndCopper
SaveSprites
Info

How To Run Scripts

Note:

Parameters in <>'s are decimal unsigned integer numbers !
Parameters in []'s are strings !
Parameters in {}'s don't need to be specified !

1.15 AGAiiff - ARexx Commands

SYNTAX

UseTopaz {OFF}

FUNCTION

Switches on / off fontsensitivity.

INPUTS

If 'off' is specified, AGAiiff uses the Workbench's Screen Font.
Else it uses topaz/8.

RESULTS

RESULT =
RC = 0

BUGS**SEE ALSO**

1.16 AGAiiff - ARexx Commands

SYNTAX

DCSize <n>

FUNCTION

Selects dc.x data size

INPUTS

n: 0 Byte (dc.b)
 1 Word (dc.w)
 2 Long (dc.l)

RESULTS

RESULT =
RC = 0, or 10 if error

BUGS**SEE ALSO**

1.17 AGAiiff - ARexx Commands

SYNTAX

Version

FUNCTION

Returns a versionstring.

INPUTS

None

RESULTS

RESULT = [versionstring]

RC = 0

BUGS

SEE ALSO

1.18 AGAiiff - ARexx Commands

SYNTAX

Status <n>

FUNCTION

Returns information about AGAiiff's status.

INPUTS

n: 0 returns pathname of actual picture or empty string.
1 returns picture size (<X> <Y>)
2 returns depth
3 returns selected save range (<X1> <Y1> <X2> <Y2>)
4 returns DisplayMode (decimal number)
5 -> "1" if GUI is hidden, else "0"
6 returns address and length of the original decrunched
ILBM data (RAW-Modulo) as (<address> <length>)

RESULTS

RESULT = [result as described above]

RC = 0, or 10 in case of error (wrong <n>)

BUGS

SEE ALSO

1.19 AGAiiff - ARexx Commands

SYNTAX

Quit

FUNCTION

Exit AGAiiff and free all system resources.

INPUTS

None

RESULTS

RESULT =

RC = 0

BUGS

Doesn't work.

SEE ALSO

1.20 AGAiff - ARexx Commands

SYNTAX

Requestfile [windowtitle]

FUNCTION

Displays an ASL-Filerequester with the desired windowtitle

INPUTS

windowtitle: Title of the requesterwindow

RESULTS

RESULT = [pathname] or empty string

RC = 0

BUGS

SEE ALSO

1.21 AGAiff - ARexx Commands

SYNTAX

Request [text]

FUNCTION

Displays a normal requester with OK / Cancel gadgets using the Intuition/EasyRequestArgs function.

INPUTS

text: Requester text.

RESULTS

RESULT =

RC = 1 for OK, 0 for Cancel

BUGS

SEE ALSO

1.22 AGAiiff - ARexx Commands

SYNTAX

TypeText [text]

FUNCTION

Prints a text into the Main Window's message line.

INPUTS

text: Textline to be printed. No LF's or similar.

RESULTS

RESULT =

RC = 0

BUGS

SEE ALSO

1.23 AGAiiff - ARexx Commands

SYNTAX

LockGUI

FUNCTION

Locks the Graphical User Interface, so that all clicks etc. won't be noticed. Use this in ARexx scripts that must not be interfered by the user.

This call uses a nest counter.

INPUTS

None

RESULTS

RESULT =

RC = 0

BUGS

SEE ALSO

UNLOCKGUI

1.24 AGAiiff - ARexx Commands

SYNTAX

UnlockGUI

FUNCTION

Unlocks the GUI.

INPUTS

None

RESULTS
 RESULT =
 RC = 0

BUGS

SEE ALSO
 LOCKGUI

1.25 AGAiff - ARexx Commands

SYNTAX
 ShowGUI

FUNCTION
 Opens the Main Window.

INPUTS
 None

RESULTS
 RESULT =
 RC = 0 if success, 10 if error.

BUGS

SEE ALSO
 HIDEGUI

1.26 AGAiff - ARexx Commands

SYNTAX
 HideGUI

FUNCTION
 Closes the Main Window and unloads a possibly loaded picture.

INPUTS
 None

RESULTS
 RESULT =
 RC = 0

BUGS

SEE ALSO
 SHOWGUI

1.27 AGAiff - ARexx Commands

SYNTAX

```
ClearPresets
```

FUNCTION

Clears the save format preset list.

INPUTS

None

RESULTS

```
RESULT  =
```

```
RC      = 0
```

BUGS

SEE ALSO

ADDPRESET, SETPRESET

1.28 AGAiff - ARexx Commands

SYNTAX

```
AddPreset [name]
```

FUNCTION

Adds a preset to the save format preset list. The actual save format and color format gadgets are saved.

INPUTS

name: Name the preset will appear under.

RESULTS

```
RESULT  =
```

```
RC      = 0
```

BUGS

SEE ALSO

CLEARPRESETS, SETPRESET

1.29 AGAiff - ARexx Commands

SYNTAX

```
SetPreset [name]
```

FUNCTION

Set the save format and color format gadgets according to the preset called [name].

INPUTS

name: Preset to set up.

RESULTS
 RESULT =
 RC = 0, or 10 if error (preset [name] doesn't exist)

BUGS

SEE ALSO
 CLEARPRESETS, ADDPRESET

1.30 AGAiff - ARexx Commands

SYNTAX
 ClearARexxMenu

FUNCTION
 Clears ARexx Menu List.

INPUTS
 None

RESULTS
 RESULT =
 RC = 0

BUGS

SEE ALSO
 ADDAREXXMENUITEM

1.31 AGAiff - ARexx Commands

SYNTAX
 AddARexxMenuItem [title] SCRIPT [scriptname without .agaiff]

FUNCTION
 Adds the item to the ARexx List.

INPUTS
 title: Title to appear under in the ARexx List.
 scriptname: Corresponding script.
 Note: 'SCRIPT' must be specified.

RESULTS
 RESULT =
 RC = 0, or 10 if error

BUGS

SEE ALSO
 CLEARAREXXMENU

1.32 AGAiiff - ARexx Commands

NOTE

Not implemented yet.

SYNTAX

LFormat [lformatstring]

FUNCTION

Sets the load format.

INPUTS

lformatstring: IFF,RAWNORM,RAWBLIT

RESULTS

RESULT =
RC = 0

BUGS

SEE ALSO

SFORMAT, CFORMAT

1.33 AGAiiff - ARexx Commands

SYNTAX

SFormat [sformatstring]

FUNCTION

Sets the save format

INPUTS

sformatstring: IFF,RAWNORM,RAWBLIT,COPPER,SPRITE,MASK,MASK1,NOPIC
FILE,DC

RESULTS

RESULT =
RC = 0

BUGS

SEE ALSO

LFORMAT, CFORMAT

1.34 AGAiiff - ARexx Commands

SYNTAX

CFormat [cformatstring]

FUNCTION

Sets the colors format.

INPUTS
 cformatstring: 12BIT,24BIT,24BITLH,24BITLHI,24BITHL,24BITHLI
 NOCOLS,TOP,BOTTOM

RESULTS
 RESULT =
 RC = 0

BUGS

SEE ALSO
 LFORMAT, SFORMAT

1.35 AGAiiff - ARexx Commands

SYNTAX
 Load [filename] {NOSHOW}

FUNCTION
 Loads a picture.

INPUTS
 filename: Pathname of the picture.
 NOSHOW: If specified, don't show the picture.

RESULTS
 RESULT =
 RC = 0, or 5 if Error (can't load file)

BUGS

SEE ALSO
 LFORMAT

1.36 AGAiiff - ARexx Commands

SYNTAX
 Save [filename]

FUNCTION
 Saves a file.

INPUTS
 filename: Pathname of the file.

RESULTS
 RESULT =
 RC = 0

BUGS
 Doesn't return error codes.

SEE ALSO
SFORMAT, CFORMAT

1.37 AGAiiff - ARexx Commands

SYNTAX
Reshow

FUNCTION
The same as the RESHOW button in the Main Window.

INPUTS
None

RESULTS
RESULT =
RC = 0

BUGS

SEE ALSO
NOSHOW, RESTORE

1.38 AGAiiff - ARexx Commands

SYNTAX
Noshow

FUNCTION
Disable showing the picture until the next RESHOW.

INPUTS
None

RESULTS
RESULT =
RC = 0

BUGS

SEE ALSO
RESHOW, RESTORE

1.39 AGAiiff - ARexx Commands

SYNTAX
Restore

FUNCTION
Restore the picture data like depth, picsize and displaymode and

```
do a RESHOW.
```

INPUTS

```
None
```

RESULTS

```
RESULT =  
RC = 0
```

BUGS

SEE ALSO

```
RESHOW
```

1.40 AGAiiff - ARexx Commands

NOTE

```
Not implemented yet.
```

SYNTAX

```
PicSize <x> <y>
```

FUNCTION

```
Change Picture Size
```

INPUTS

```
x:    X Size in pixels  
y:    Y Size in pixels
```

RESULTS

```
RESULT =  
RC = 0
```

BUGS

SEE ALSO

```
DEPTH, DISPMODE
```

1.41 AGAiiff - ARexx Commands

SYNTAX

```
Depth <a>
```

FUNCTION

```
Set depth of the picture.
```

INPUTS

```
a:    Depth.
```

RESULTS

```
RESULT =  
RC = 0
```

BUGS

SEE ALSO

PICSIZE, DISPMODE

1.42 AGAiiff - ARexx Commands

SYNTAX

DispMode <a>

FUNCTION

Set DisplayMode.

INPUTS

a: DisplayMode ID (decimal long int)

RESULTS

RESULT =

RC = 0, or 5 if no picture was loaded.

BUGS

SEE ALSO

DEPTH, PICSIZE

1.43 AGAiiff - ARexx Commands

SYNTAX

Range <x1> <y1> <x2> <y2> {FULLPIC}

FUNCTION

Set save range.

INPUTS

x1/y1: One Corner of the range.

x2/y2: Two Corner of the range. (?)

FULLPIC: Specify this to select the whole picture.

RESULTS

RESULT =

RC = 0

BUGS

SEE ALSO

1.44 AGAiiff - ARexx Script 'Startup.agaiiff'

This script is called once when AGAiff was loaded. So you should put your Preferences, Presets and other Setup stuff here. The original script by me contains the most important save format settings and the ARexx Menu items for the rest of the scripts.

1.45 AGAiff - ARexx Script 'SaveRawAndCopper.agaiff'

This is an example of how easy AGAiff is to use with the ARexx Port. After loading a picture you just start this script, enter a filename and then you get a RAW-Normal picture and the corresponding 12 Bit Copperlist at once.

1.46 AGAiff - ARexx Script 'SaveSprites.agaiff'

This one is useful if you want to build large pictures using the sprite channels of the old chipset (16 pixel wide sprites). It splits a picture into different sprites, what you have to do on your own when using other IFF-Converters !

1.47 rxs_info

Simply shows how to use the STATUS command.

1.48 AGAiff - Running ARexx Scripts

In the script 'Startup.agaiff' you should add some 'ADDAREXXMENUITEM' entries. These will appear in the window you open with the ARexx-Button in the Main Window. When selecting one of them, the corresponding script is started immediately. Ofcourse you can start them from Shell using the 'rx' command.

1.49 AGAiff Development History

Version 1.0 Release A (01-Mar-94)
First public release.

1.50 AGAiff What's left ?

- * Copyright !! Don't touch, don't look at, don't use, don't say it's name, just S P R E A D this program including the complete set of files:

```
REXX (dir)
  Info.agaiff
  Info.agaiff.info
  SaveRawAndCopper.agaiff
  SaveRawAndCopper.agaiff.info
  SaveSprites.agaiff
  SaveSprites.agaiff.info
  Startup.agaiff
  Startup.agaiff.info
REXX.info
AGAiff
AGAiff.info
AGAiff.guide
AGAiff.guide.info
```

YOU MAY DO ANYTHING WITH THIS PROGRAM AS LONG AS ALL FILES ARE SPREAD TOGETHER !

- * I hope this code supports all future extensions on the graphics chipset, because all handling is done via the graphics.library's 'DisplayInfoDataBase'. According to Commodore Frankfurt, the AAA chipset is going to be out in Autumn 1994, so we'll see...
- * And this is the To-Do-List:
- IFF Saving
 - Loading of RAW pictures

1.51 AGAiff Comprehensive Contents

Contents of this manual:

```
Introduction
Installation
Using AGAiff
Main Window
  Screen Mode
  Picture Size
  Save Range
  Load Format
  Save Format
  Colors Format
Picture Screen
Preferences
ARexx Port:
  How To Run ARexx Scripts
  Control Functions
  USETOPAZ
  DCSIZE
  VERSION
  STATUS
  QUIT
  User Communication Functions
```

REQUESTFILE
REQUEST
TYPETEXT
 Graphical User Interface Control Functions
LOCKGUI
UNLOCKGUI
SHOWGUI
HIDEGUI
 Preset List Control Functions
CLEARPRESETS
ADDPRESET
SETPRESET
 ARexx List Control Functions
CLEARAREXXMENU
ADDAREXXMENUITEM
 I/O Functions
LFORMAT
SFORMAT
CFORMAT
LOAD
SAVE
RESHOW
NOSHOW
RESTORE
 Picture Modifying Functions
PICSIZE
DEPTH
DISPMODE
RANGE
 ARexx Scripts provided with this package
Startup
SaveRawAndCopper
SaveSprites
Info
History
The Rest
