

# **Graphicconverter V1.5.3**

A converter for the Macintosh®

## **Documentation**

©1992, Thorsten Lemke

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# 1. Introduction

## 1.1. Possibilities

Graphicconverter converts the most famous ATARI, Amiga and IBM formats to Macintosh formats and back.

Additional you can edit pictures and generate lists with picture informations.

## 1.2. Requirements

Graphicconverter needs a Mac II (or LC), System 7 and 2 MB free memory.

## 1.3. Registration

Graphicconverter is Shareware. You can test the program. If you like it, you should registrate yourself.

The registration costs:

Germany	\$20
Europe	\$25
Rest of the world	\$30

Send the money to the following address:

Thorsten Lemke  
Insterburger Str. 6  
W-3150 Peine  
Germany

The registration contains two updates.

A german version is also available.

## 1.4. Restrictions

Graphicconverter should only be copied in the complete version with the program, documentation and 'read-me' file.

## 1.5. New Features

Version 1.5.1

- program reads CCITT3 and LZW compressed TIFF's
- diashow shows films (PICS, FLI etc.)
- diashow can display the content of subfolders
- new functions: Segment and Select exist
- you can rotate, mirror and invert selections
- Graphicconverter has new better icons for documents

Version 1.5.2

- you can't open windows with the same name
- the information window opens direct under then picture window
- I added some forgotten translations
- in the open dialog is a new button "Open PICT with 32 bit", you need this for JPEG compressed PICT's because the picture utility package analyze 1 bit

Version 1.5.3

- I display now the popup menus in the toolbox so that they are visible everytime

### **1.6. Errors**

If you find some errors in the program, please send me a list.

### **1.7. For me**

If you have informations about other graphic formats, please send me a copy and a disk with some files in that format.

### **1.8. Thanks**

I thank the following persons for their help: Wolfgang for the dither algorithms and Jochen for testing.

## 2. Installation

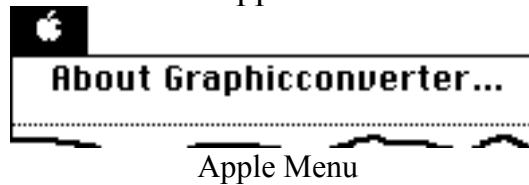
The Installation is very simple. You only have to copy the Graphicconverter on your harddisk. No other files are needed.



## 3. Menus

### 3.1. Apple-Menu

The **Apple** Menu gives you information about the Graphicconverter. Also it contains the desk accessories and the files in the apple folder.



#### 3.1.1. About Graphicconverter...

This function gives you information about the version and the shareware agreement.

## 3.2. File Menu

The **File** Menu contains all functions for the in- and output of pictures.

File	
New	⌘N
Open	⌘O
Close	⌘W
-----	
Save	⌘S
Save as	
-----	
Diashow	
-----	
Page Setup	
Print	⌘P
-----	
Preferences	
-----	
Quit	⌘Q

File Menu

### 3.2.1. New

You get a dialog to set the following things:

- ① Width - the width of the picture
- ② Height - the height of the picture
- ③ Depth - the bits per pixels (1, 2, 4, 8, 16 or 32)

Graphicconverter sets the color table to the system color table of the choosen depth.

### 3.2.2. Open

You can open a picture or a layout with this function.

You have to select the format with the popup-menu.

You need “Open PICT with 32 bit” for JPEG compressed PICT’s because the picture utility package analyze 1 bit.

### 3.2.3. Save

With this function you can save the content of the active window with its name.

### 3.2.4. Save as

You save the content of the active window with a new name and format.

You choose the format with the popup-menu.

If you choose “Save only selection”, Graphicconverter saves only the selection.

### 3.2.5. Diashow

You choose one file of a folder. Graphicconverter then displays all pictures in that folder.

You stop the diashow with ⌘-..

### **3.2.6. Page Setup**

You choose the format and quality for prints.

### **3.2.7. Print**

Graphicconverter prints the content of the active window.

### **3.2.8. Preferences**

You get a dialog to set the preferences:

- automatic display information window
- automatic display toolbox dialog
- don't show error alerts in the diashow

### **3.2.9. Quit**

You exit the Graphicconverter.

Graphicconverter saves the changes of the preferences automatically.

### 3.3. Edit Menu

You find in this menu functions to edit pictures and exchange them with other applications.

Edit	
Undo	⌘Z
Cut	⌘H
Copy	⌘C
Paste	⌘U
Clear	
Select all	⌘A
Select exist	
Segment	
Show Clipboard	
New Picture with Clipboard	

Edit Menu

#### 3.3.1. Undo

You undo the last drawing in the active window.

#### 3.3.2. Cut

You copy the content of the selection in the active window to the clipboard and delete the content of the selection.

#### 3.3.3. Copy

You copy the content of the selection in the active window to the clipboard.

#### 3.3.4. Paste

If a PICT is in the clipboard, then the program insert it in the active window.

#### 3.3.5. Clear

Graphicconverter deletes the content of the selection in the active window.

#### 3.3.6. Select all

You select the complete content of the active window.

#### 3.3.7. Select exist

You select only the content of a picture and not the unique coloured borders.

#### 3.3.8. Segment

You destroy the non selected parts of a picture and get the selection as the result.

☞ You save memory with this function.

### **3.3.9. Clipboard**

You get a window with the content of the clipboard.

### **3.3.10. New Picture with Clipboard**

You get a new picture with the content of the clipboard.

### 3.4. Picture Menu

The **Picture** menu allows you to change the complete content of a picture.



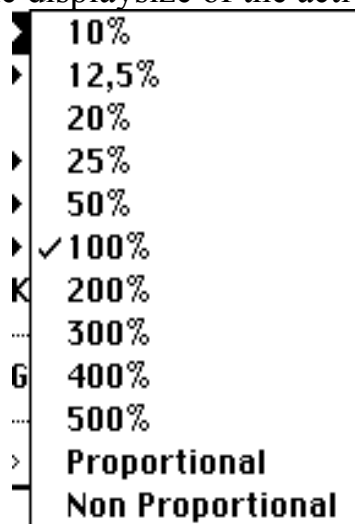
Picture Menu

#### 3.4.1. Information

A little information window appears in the right, lower edge of the screen, which shows some details about the picture in the active window (size, depth etc.).

#### 3.4.2. Size

You get a submenu to select the display size of the active window.



Submenu for the size

##### 3.4.2.1. Selection of a procentnumber

You resize the window with the procentnumber.

##### 3.4.2.2. Proportional

You get a dialog to type in a procentnumber in the range from 10 to 1000%.

### 3.4.2.3. Non Proportional

You get a dialog to type in the width and height of the window in pixels.

### 3.4.3. Colors

You get a submenu to change the colortable of the active window. You can only change the colors of pictures with a depth from 1 to 8 bit.



Submenu for the colors

#### 3.4.3.1. Greyscale

You change the colortable to a greyscalecolortable.

#### 3.4.3.2. Edit Colortable

You get a dialog to edit the colors of the colortable.

If you click behind the numbers, then you increment or decrement the number by 100.

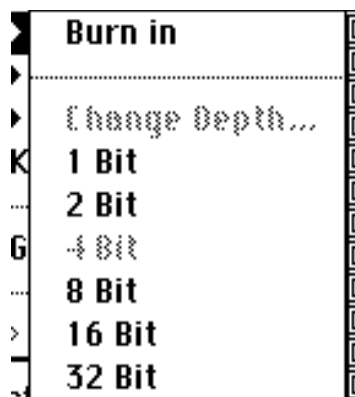
### 3.4.4. Invert

You invert the colortable of the picture in the active window. This is only possible for picture from 1 to 8 bit.

### 3.4.5. Special

This sub menu contents very hard function.

☞ Undo not possible!



Submenu for special

#### 3.4.5.1. Burn in

You copy the picture in the changed size in a new bitmap.

☞ Undo not possible!

#### 3.4.5.2. Change Depth

You change the color depth of the picture. Often you get very “funny” results.

☞ Undo not possible!

### 3.4.6. Rotate

You get a submenu to select the rotation (90°, 180° or 270°).

### 3.4.7. Mirror

You get a submenu to select the mirror (horizontal or vertical).

### 3.4.8. Toolbox

You get a new window with drawingtools. See also “Toolbox”.

### **3.4.9. Full Screen**

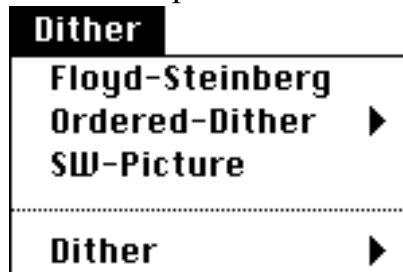
You display the picture in front of a black background.



### 3.5. Dither Menu

The Dither-Menu contains function to convert a color-picture to a black-and-white-picture.

☞ All dither-functions generate a new picture and don't change the original.



Dither menu

#### 3.5.1. Floyd-Steinberg

You convert the picture with Floyd-Steinberg-Algorithm in a black and white picture with the same size.

#### 3.5.2. Ordered-Dither

You get a submenu to select the squaresize (2x2, 4x4 oder 6x6). Graphicconverter dithers your picture with the selected size.

#### 3.5.3. S/W-Picture

You convert the picture direct to a black and white picture.

#### 3.5.4. Dither

You get a submenu the select the size (2x2 to 8x8) of one point in the destination picture.

You use dither do print out a color-picture with a printer with a better resolution than the monitor.

☞ If you print a 72dpi picture with 300dpi printer use a 4x4 matrix for dithern.

## 3.6. Special Menu

The **Special** menu contains function for additional use.



Spezial Menü

### 3.6.1. Layout...

You generate and edit with the following two points a layout.

### 3.6.2. New page

You open a new page.

### 3.6.3. Options

You get a dialog to change the parameters of the layout:

- font, size und style
- name of a picture
- display the picture on the screen

### 3.6.4. List...

You generate and edit with the following three points a list

You can open only one list.

### 3.6.5. Generate

You select in the standard getfile dialog a file of a folder. Graphicconverter opens then all files in the folder and looks on them. You get the result in a window. If a list-window is already open it is closes automatical.

### 3.6.6. Open Window

If you close a list-window, you reopen it with this function.

### 3.6.7. Option

You get a dialog to change the parameters of the list:

- font, size und style
- margins

### **3.6.8. Copy File into Resource**

You copy with this function the datafork of a file into the resourcefork of another file:

1. You select the source file.
2. You select the destination file.
2. You select the new resource type.

### **3.6.9. Generate STR# List**

You generate a list with the contents of one STR# resource.

- ☞ I added this function because it is in ResEdit not possible to print a complete STR# resource

### **3.6.10. Invert SW-Gif's**

You invert all SW-GIF's of a folder.

- ☞ You need this function because SW-GIF's from an IBM are often inverted.

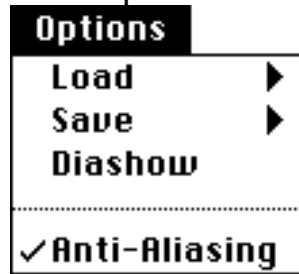
### **3.6.11. Convert direct GEM to PICT**

You convert a GEM-Metafile direct to a PICT.

- ☞ You don't lose the vectors of the GEM-Metafile.

### 3.7. Options Menu

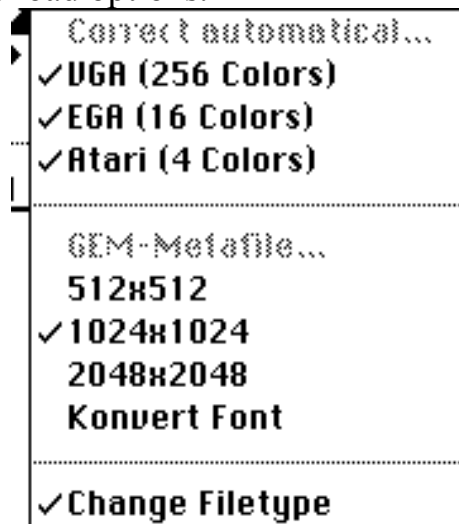
The **Options** Menu allows you to set the preferences for the top functions.



Options Menu

#### 3.7.1. Load

You get a submenu with the load options.



Load Submenu

##### 3.7.1.1. Correct automatical

If you select one of the following three points the graphicconverter resizes the picture:

Format	Source Pixels	Dest. Pixels
VGA (256 Colors)	320x200	320x240
EGA (16 Colors)	640x350	640x480
Atari (4 Colors)	640x200	640x400

##### 3.7.1.2. GEM-Metafile

You set with the following four points the options for GEM-Metafiles.

##### 3.7.1.3. 512x512, 1024x1024, 2048x2048

You set the maximal size of a bitmap.

##### 3.7.1.4. Convert Font

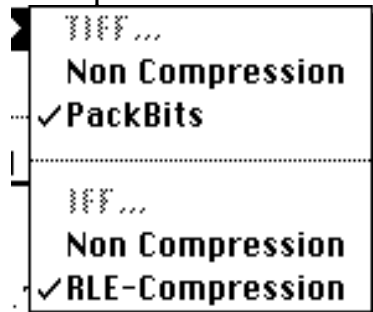
You get a dialog. You set the relations between GEM- and MAC-fonts.

##### 3.7.1.5. Change Filetyp

If you check this point graphicconverter automatic sets the filetype of a picture to his own when you load a file.

#### 3.7.2. Save

You get a submenu to select the compression mechanism for the TIFF and IFF Format.



Save submenu

### 3.7.2.1. TIFF...

You set the compression algorithm for TIFF.

☞ Prefer “Non Compression”.

### 3.7.2.2. IFF...

You set the compression algorithm for IFF.

☞ Prefer “RLE Compression”.

### 3.7.3. Diashow

You get a dialog to set the preferences for a diashow.

The dialog contains the following points:

- ① Display name - displays the name of the current picture at the left top corner
- ② Grow up little pictures - resizes little pictures to the full screen size
- ③ Minimal showtime - sets the minimal time the picture appears

### 3.7.4. Anti-Aliasing

You allow the MAC to dither pictures if they have not the original size. You get so a better view.

☞ Anti-Aliasing slows the display.

### 3.8. Window Menu





The **Window** Menu allows you to arrange and select windows.



Window menu

#### 3.8.1. Arrange

You get a dialog to arrange the open windows. You have the following possibilities:

1.  2. 
3.  4. 

#### 3.8.2. Windownames

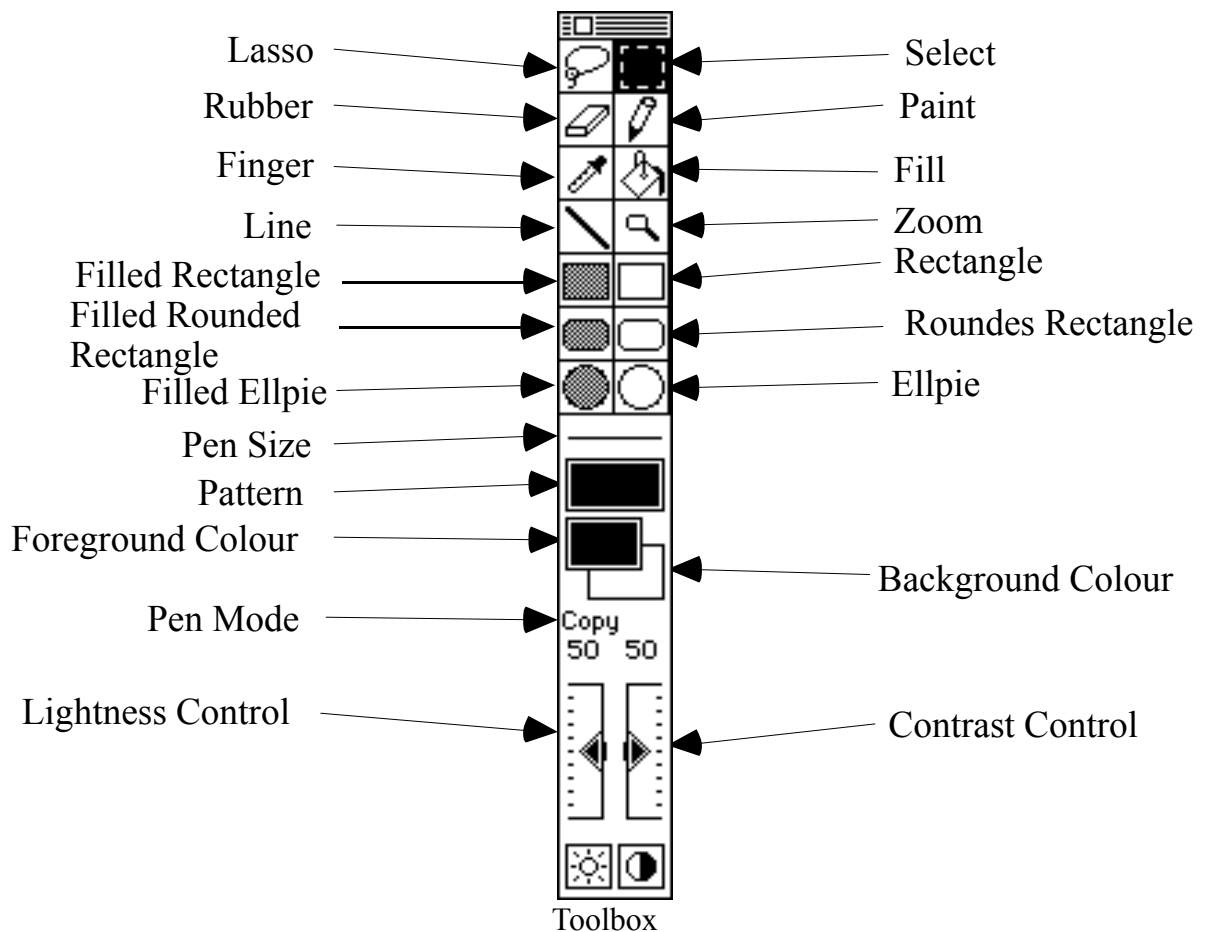
You bring the window with the selected name to the top.

## 4. Edit

I describe in this chapter the tools to edit a picture.

### 4.1. Toolbox

You have the following tools in your toolbox:



#### 4.1.1. Lasso

You select and move a non rectangular selection.

#### 4.1.2. Select

You can select or move a frame.

☞ If you press the apple key, you select only the content of the frame.

#### 4.1.3. Rubber

You erase with the background colour.

#### 4.1.4. Paint

You draw with the current foreground colour and pensize.

#### 4.1.5. Finger

You touch a pixel to make his color the foreground colour.

#### 4.1.6. Fill

You fill a figure with the foreground colour and pattern.

#### **4.1.7. Line**

You draw a line with the foreground colour and pen size.

☞ If you press the shiftkey, you can only draw vertical or horizontal lines.

#### **4.1.8. Zoom**

You zoom in the picture.

☞ If you press the altkey, you zoom out.

#### **4.1.9. (Filled, Round) Rectangle**

You draw a (filled, round) rectangle with the foreground colour, pensize and pattern.

☞ If you press the shiftkey, you can only draw a square.

#### **4.1.10. (Filled) Ellipse**

You draw a (filled) ellipse with the foreground colour, pensize and pattern.

☞ If you press the shiftkey, you can only draw a circle.

#### **4.1.11. Pensize**

You get a popup menu to select the pen size between one and ten points.

#### **4.1.12. Pattern**

You get a popup menu to select the pattern for filling.

☞ You can tear of the menu.

#### **4.1.13. Foreground and Background Colour**

You get a popup menu to select the foreground or background colour.

☞ You can tear of the menu.

☞ If you have a black and white picture the colours toggle between black and white.

#### **4.1.14. Pen Mode**

You get a popup menu to select the transfer mode. You have the following modes: Copy, Or, Xor, Bic, Not Copy, Not Or, Not Xor and Not Bic

#### **4.1.15. Controls**

You set the lightness and contrast with the controls.

### **4.2. Changing the Selection**

You change the size of a rectangular selection with the little boxes on the frame.



## 5. Layout

You can generate simple layouts. This means that you can place some pictures on a page with different sizes.

### **5.1. Insertion**

You get a popup menu to choose one of the open pictures if you click in a layout window with pressing the apple key.

### **5.2. Moving**

You move a picture if you click in one and move the mouse.

### **5.3. Change Size**

If you select a picture, you change the size with the little squares.

## 6. List

The list window gives you an overview about pictures or “STR#” resources.

### **6.1. Change Page**

if you click in the “+” or “-” button you change the page.

### **6.2. Borders**

The black frame shows the printable size. The red border shows the selected frame.

## 7. Filme

The Graphicconverter can play the following film formats:

- ① \*PICS - Animated PICT's
- ② \*.ANI- Animated NeoChrome
- ③ \*.FLI - Autodesk Animator
- ④ \*.GIF - Animated GIF's

If you load a film the Graphicconverter displays in the left bottom corner of the window a play button.

If you click in this button you get the film. You stop the film with a mouse click.

## 8. Shortcuts

### 8.1. Everytime

Shortcut	Result
Alt key and click in the window title	You get a popup menu with all open windows. You bring the selected window to the front.

### 8.2. In Pictures

Shortcut	Result
Ctrl key in the content	You get a popup menu to select the picture view size.
Alt key in the content	You change the drawing function to finger.
Cursor keys	You change the size of a rectangular selection.

### 8.3. In Layouts

Shortcut	Result
Apple key and click in the content	You get a popup menu with all open pictures to insert one.
Apple key and click in the content over a picture	You get a popup menu to select the picture size.

## 9. Formats

I show in the table the picture formats my program can read and write.

Name	Read	Write	Discription
PICT	x	x	standard Macintosh format, include bitmaps or vectors
MacPaint	x	x	black and white picture, Resolution 512x768 pixels
TIFF	x	x	complex format from 1 to 24 bit per pixel Graphicconverter reads all classes (B, G, P, R) and the following compression algorithms: uncompressed, packbits, CCITT3 and lzw it writes uncompressed and packbits
PICS	x		Animated PICT's
GIF	x		from CompuServe Incorporated for pictures from 1 to 8 bit per pixel
PCX	x	x	from PC-Paintbrush for pictures with 1, 4 or 8 bit per pixel
SCR	x	x	from the Capture program for word for Windows and DOS, same as PCX
BMP	x		standard Windows format, not compressed
PIC	x		for pictures with 16 bits per pixel, not compressed
FLI	x		from Autodesk Animator, contains 8 bit film with the size 320x200 pixels
IFF	x	x	standard format of the Amiga
LBM	x	x	same as IFF for the IBM
PAC	x		from ATARI program STAD for black and white pictures with the size 640x400 pixels
Degas	x		from the ATARI program Degas for the following pictures: - 320x200 pixels, 16 colours (*.PI1, *.PC1) - 640x200 pixels, 4 colours (*.PI2, *.PC2) - 640-400 pixels, 2 colours (*.PI3, *.PC3)
NEO	x		from the ATARI program NeoChrome for 320x200 pixels, 16 colours pictures
PIC	x		ATARI screen shot, 640x400 pixels, 1 bit
SPC	x		from the ATARI program Spectrum 512 for 320x200 pixels, 512 colours pictures, automatically converted to 16 bit
ANI	x		film from NeoChrome, you need additional a NEO-file
GEM	x		GEM-Metafile, vector format from the ATARI program GEM-Draw
Imagic	x		from ATARI program Imagic, contents pictures in the

			three ATARI standard formats
--	--	--	------------------------------