

**GfxComment**

**COLLABORATORS**

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# Contents

<b>1</b>	<b>GfxComment</b>	<b>1</b>
1.1	GfxComment - © 1998 by Robert Kersbergen . . . . .	1
1.2	Why does GfxComment exist? . . . . .	2
1.3	What do you need to use GfxComment? . . . . .	3
1.4	It might work, it might crash, it might set your Amiga on fire . . . . .	3
1.5	How to install GfxComment - nothing to it . . . . .	3
1.6	How to use GfxComment . . . . .	4
1.7	Example output of GfxComment . . . . .	6
1.8	All 13 types of JPEG . . . . .	7
1.9	What does the future hold? . . . . .	7
1.10	Who made this masterpiece? . . . . .	8
1.11	Credit where credit is due . . . . .	9
1.12	Programmer's Help . . . . .	9
1.13	History of GfxComment . . . . .	10

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# Chapter 1

# GfxComment

## 1.1 GfxComment - © 1998 by Robert Kersbergen

GfxComment - Version 0.8

© 1998 by Robert Kersbergen

This program is public domain. Distribute freely.

Introduction

- Features of GfxComment

Requirements

- What you need to use it

Copyright

- Disclaimer

Installation

- How to install GfxComment

Usage

- How to get it it work

Example output

- What does it look like?

Future

- Is there a future?

Author

- How to get in touch with me

Credits

- Credit where credit is due

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History  
- What have I done lately?

13 types of JPEG  
- How many?

Programmer's help  
- If you're a programmer...

## 1.2 Why does GfxComment exist?

What does GfxComment do?

GfxComment is able to scan a directory, pick out three types of picture formats that are widely used on the World Wide Web, find out their width, height and number of colours and attach that information to that file as a file comment.

OK, but why?

I maintain the website of my girlfriend and I was getting tired of having to load a picture viewer or (even worse!) ADPro to find out the dimensions of a picture so I could put in the width= and height= tags in an HTML-file.

Now all I have to do is run GfxComment and I can see by it's file comment what it's width and height is. As some sort of added bonus I've also attached all sorts of other information that might be useful so it can be used by people who would like to know a bit more about a picture than just it's dimensions.

Which picture formats does GfxComment recognize?

Currently GfxComment supports the following formats:

- ILBM (IFF-ILBM)
- PNG
- GIF (GIF87a, GIF89a)
- JPG (Baseline, Progressive,  
all 13 of them!  
)

What information will it fetch from each picture format?

ILBM: Width, Height, No. of Colours.

PNG : Width, Height, No. of Colours, Interlace-modus.

GIF : Width, Height, No. of Colours, Interlace-modus, Type (GIF87a/89a).

JPG : Width, Height, Type of JPEG (Progressive, Baseline)

Note: GfxComment will mention that JPEG pictures have 16M colours. And instead of telling you the number of colours, it can also tell you the number of bitplanes in a picture.

Great! What do I need to use it?

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Read on!

### 1.3 What do you need to use GfxComment?

What are the requirements to run GfxComment?

In order to run GfxComment you need the following:

- An Amiga with AmigaOS 2.x or higher (I think)
- Pictures to scan
- Understand the disclaimer
  - GfxComment (duh!)

That's it? How do I install it?

Read on!

### 1.4 It might work, it might crash, it might set your Amiga on fire

DISCLAIMER

Although great care has been taken in order to make this program as stable and safe as possible, I can not be held responsible for whatever it may cause. It might work but it might also set fire to your house or do nothing at all. Realise that before using it! :)

COPYRIGHT NOTICE

GfxComment and its source are hereby put into public domain. Do with them whatever you like.

### 1.5 How to install GfxComment - nothing to it

How do I install GfxComment?

Simple, there is only one executable (GfxComment). As it's a CLI-only program I suggest you copy it to your C: directory. Alternatively, put it wherever you want.

GfxComment requires no external libraries, no MUI, no BGUI, nothing!

Really? So how do I use it?

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Read on!

## 1.6 How to use GfxComment

How do I use GfxComment?

GfxComment works from the CLI (shell) only! So there is no icon for you to start it from Workbench. You need to open a shell and there you can execute it. Make sure you've got a stack of at least 8000 bytes (most shells open with this but if you're not sure, enter 'stack 8000' in your shell).

GfxComment is able to either investigate one file or check all files in a given directory. Directories can be scanned recursively as well. You can set up a filter when scanning a directory, so if you just want to comment PNG-files, you can have GfxComment scan for all filenames that end on PNG.

So how do I use it?

The GfxComment usage template looks like this (AmigaDOS style):

```
L=LOCATION,P=PATTERN,A=ALL/S,V=VERBOSE/S,NW=NOWRITE,  
BP=BITPLANES/S,H=HELP/S:
```

L=LOCATION

Sets the location GfxComment will scan. Alternatively, you can enter a complete path with filename. In that case just that one file will be commented.

P=PATTERN

Allows you to setup a filter when scanning a directory. You can use AmigaDOS wildcards here. Suppose you've got a directory full of different files. It can be rather time consuming if GfxComment had to open all those files to see if it's one of the supported filetypes. It's quicker to set a filter and rule out files that are not relevant. For instance, you can have GfxComment scanning for GIF-files with the following pattern: #?.GIF.

A=ALL

Use this if you're scanning an entire directory. With this switch you turn on recursive directory scanning.

V=VERBOSE

Shows a lot of information while scanning and commenting files. See  
this  
for example output.

NW=NOWRITE

---

This will force GfxComment to not set the file comment. This way GfxComment can be used to scan your hard disk and perhaps create an index file with it.

BP=BITPLANES

By default, GfxComment will show you the number of colours. But if you really must, GfxComment can also tell you the number of bitplanes instead. This will be used for both on screen (with the VERBOSE switch) and for the file comment.

H=HELP

Shows help information.

Can you show me how to use it?

Sure, here are some examples:

GfxComment Work:Internet/Homepages/Images #?.GIF

Scans the directory Work:Internet/Homepages/Images for files that end on .GIF and comments them. You will be informed about how many files there were found.

GfxComment Work:Internet/Homepages/Images/NewStuff.PNG

Opens the NewStuff.PNG file and check if it's a supported filetype. If so, it will retrieve the picture info and attach it to the file.

GfxComment Work:Internet/Homepages/Images/NewStuff.PNG BITPLANES

Same as the previous one but this time the file comment will hold the number of bitplanes of the picture.

GfxComment Work: ALL VERBOSE

Scans the entire Work: partition (including all directories) for files. All files will be checked and commented if possible. While GfxComment does its job, you will be informed on screen about the progress. (Note: instead of typing the entire keywords, you can suffice with respectively A and V).

GfxComment Work:Scans #?.JPG ALL VERBOSE

Scans the directory 'Work:Scans' for all .JPG files and comments them. If directories exist in the Work:Scans/ directory, they will be scanned to. Again, progress will be shown on screen.

GfxComment Work: ALL VERBOSE NOWRITE

Scans the entire Work: partition for pictures and shows you on screen what it has found. But the NOWRITE flag prevents GfxComment from setting the file comment of the found files.

GfxComment >RAM:MyPictures.TXT Work: ALL VERBOSE NOWRITE

---

Same as above, but now the output will be send to a file called 'MyPictures.txt' in your RAM: drive.

Cool! So what does the future hold?

Read on!

## 1.7 Example output of GfxComment

Here is some example output of GfxComment:

```
8.Data-N-More:Projects/GfxComment> GfxComment TMP: VERBOSE
```

```
GfxComment 0.8 (25.7.98) Adds graphic's info to files as a file comment.  
Copyright © 1998 Robert Kersbergen (e-mail: klr@quadrant.xs4all.nl).  
This program is public domain. Distribute freely.
```

```
Now scanning directory "TMP:"...
```

```
1.  ILBM - 133x 2 - 16M colours - bar-rainbow.ilbm  
2.  GIF89a - 141x 15 - 256 colours - Non-Interlaced - border-bottom.gif.  
3.  GIF89a - 5x472 - 256 colours - Non-Interlaced - border-left.gif.  
4.  GIF89a - 5x473 - 256 colours - Non-Interlaced - border-right.gif.  
5.  GIF89a - 141x 14 - 256 colours - Non-Interlaced - border-top.gif.  
6.  ILBM - 135x307 - 16M colours - bbar-test2.iff  
7.  ILBM - 95x 48 - 16M colours - klr-button-top.iff  
8.  ILBM - 56x 48 - 16M colours - klr-button-up.iff  
9.  ILBM - 42x 48 - 16M colours - klr-button-next.iff  
10.  JPG - 350x262 - 16M colours - Type: Baseline - screenshot-ds.jpg.  
11.  JPG - 350x262 - 16M colours - Type: Baseline - screenshot-wb.jpg.  
12.  ILBM - 135x307 - 16M colours - bbar-test3.iff  
13.  JPG - 320x240 - 16M colours - Type: Progressive - jpgprogre.jpg.  
14.  JPG - 135x307 - 16M colours - Type: Baseline - bbar-test.jpg.  
15.  GIF87a - 135x307 - 256 colours - Non-Interlaced - bbar-test.gif.  
16.  JPG - 350x262 - 16M colours - Type: Baseline - screenshot-browser.jpg.  
17.  JPG - 891x624 - 16M colours - Type: Baseline - rips014.jpg.  
18.  PNG - 131x135 - 256 colours - Non-Interlaced - ayp-robert.png.  
19.  PNG - 131x135 - 256 colours - Interlaced - ayp-robert-i.png.  
20.  ILBM - 556x604 - 16M colours - screenshot_wb.ilbm  
21.  GIF87a - 131x135 - 256 colours - Non-Interlaced - ayp.gif.  
22.  ILBM - 131x135 - 16M colours - ayp.iff  
23.  GIF87a - 131x135 - 256 colours - Non-Interlaced - ayp-robert.gif.  
24.  ILBM - 135x307 - 16M colours - bbar-test.iff  
25.  ILBM - 140x 35 - 16M colours - klr-button-new.iff  
26.  ILBM - 140x500 - 16M colours - border-rainbow.ilbm  
27.  ILBM - 616x 8 - 16M colours - ruler.ilbm  
28.  JPG - 574x800 - 16M colours - Type: Baseline - rips049.jpg.  
29.  JPG - 598x845 - 16M colours - Type: Baseline - rips050.jpg.
```

```
Found 7 GIF files.
```

```
Found 8 JPG files.
```

```
Found 2 PNG files.
```

```
Found 12 ILBM files.
```

Found 29 files in total.

## 1.8 All 13 types of JPEG

You mention 13 types of JPEG! I didn't know there were that many?

Oh, but there are. The following types are recognized by GfxComment:

1. Baseline
2. Extended sequential
3. Progressive
4. Lossless
5. Differential sequential
6. Differential progressive
7. Differential lossless
8. Extended sequential, arithmetic coding
9. Progressive, arithmetic coding
10. Lossless, arithmetic coding
11. Differential sequential, arithmetic coding
12. Differential progressive, arithmetic coding
13. Differential lossless, arithmetic coding

The most common one is number 1, baseline. This is your average JPEG that can be read with almost any program. Not too long ago the first progressive JPEGs were found and the latest thing are lossless JPEGs.

GfxComment will show you what type a JPEG is, like this:

7. JPG - 320x240 - 16M colours - Type: Progressive - jpgprogre.jpg.
10. JPG - 320x247 - 16M colours - Type: Baseline - amiga\_wb2.jpg.

## 1.9 What does the future hold?

What will GfxComment do in the future?

I want to implement the following functions in GfxComment:

- Anim-Gif Support To tell you how many frames there are in one.

(There were more but I implemented those functions already :) )

Stuff I want to change in GfxComment (techno-babble):

- Recursive directory reading. There is now a maximum of 64 directories that can be scanned. I want to get rid of this maximum.
  - Directory reading is now done with dfind() and dnext(). I would like to change it to the AmigaDOS equivalents: MatchFirst() and MatchNext() from the dos.library.
  - Get rid of startup-code (startup.c), this will make the executable a lot smaller, but I will have to make my own printf();
-

- Better CTRL-C handling (there is none right now). Currently you could end up in the directory that GfxComment was scanning even though your shell says otherwise. This is sort of a (sssst!) known bug..

If you have got any suggestions, please feel free to contact me!

## 1.10 Who made this masterpiece?

So who is the genius that made this program?

This program has been put together by Robert Kersbergen. I am a 26 year old guy that lives in The Netherlands. Born in Amsterdam, living in a town called Hoorn. For a living I am a Sales Consultant at a very big ISP (the biggest for the professional market world-wide).

If you want to contact me, use this address:

`klr@quadrant.xs4all.nl`

If you would like to see what my girlfriend is upto, visit my (her) homepage at this address:

`http://www.xs4all.nl/~klr`

I know, I know, shameless plug but this is my guide, so bite me!

And how did you do it?

It's done in C, compiled with SAS/C 6.57. You can find the source in the archive, I hope you can use it. I had a lot of trouble trying to find information about the several picture formats. While I was coding GfxComment I often wish I would have an example of how to read a GIF or even a JPEG. So that's why I'm publishing my sources as well.

And what is your setup?

A4000/040@25 MHz, 26MB of memory, 6.5GB of space. I look at an Iiyama Vision Master 17" monitor and dial in using a USR Courier V. Everything. To enhance the picture a bit I've got a Cybervision64/3D.

You are making me say this, aren't you?

Yes, your will is my command. I can make you ask me anything I want.

Oh yeah?

Yeah :-).

(OK, enough of the jokes, please! Ed.)

---

## 1.11 Credit where credit is due

Credits where credits are due!

- First of all, I would like to thank Andreas Kleinert for pointing me in the right direction. Without him I would have probably given up trying to read GIF files. So Andreas, thanks a lot!
- I would like to thank Jay Miner for creating such a wonderful machine. I don't think the world will ever see such a gorgeous OS. So cunningly put together it makes the most out of what's possible. Maybe not to current standards but I can't live without AmigaOS.
- I would like to thank CU Amiga and Amiga Format for keeping me motivated to keep on developing for the Amiga. Without their enthousiam I might have given up on the Amiga already. But thanks to them I know what a close community the Amiga community really is. I know, it sounds all soggy and pethatic, but it's true \*snif\*. C'mere, I wanna hug you ;).
- Er, I'm out of people actually. I could tell you about my pet gerbill and how he reacts to viagra, but I won't.

## 1.12 Programmer's Help

Programmer's help? Huh?

When I was trying to get this program working I ran into several problems. The first one was trying to find the specifications of the several picture formats I wanted to support. So here are some useful URL's:

General File Format FAQ:

<http://www.faqs.org/faqs/graphics/fileformats-faq/index.html>

IFF Specifications:

<http://www-edu.gel.usherb.ca/codc01/IFFSPECS.ZIP>

Also, the Developer CD-Rom from CBM is very useful!

JPEG:

<ftp://rtfm.mit.edu:21/pub/usenet/news.answers/jpeg-faq/part1>  
<ftp://rtfm.mit.edu:21/pub/usenet/news.answers/jpeg-faq/part2>

I honestly can't remember where I found the GIF89a specifications. If you want it, just contact me and I'll send it to you.

What else can you do to help me?

While struggling with the specifications I wished there was some example code somewhere that I could use as a reference. So by making my source code public I'm hoping you will find just that. If you do, please e-mail me and tell me, that would definately make my day :-).

---

Anything else you would like to say?

Well, yeah. In the sources directory you will find the sources as I used them to compile this version. I have not included the protos.h files. To create them (with SAS/C) do the following:

```
1.> sc GfxComment.C gprotos noicons
```

And do that for every file. Then just type 'smake' and the program will be compiled.

How can I ever thank you?

Oh, just send me an e-mail, that will do.

## 1.13 History of GfxComment

25/7/98 - Version 0.8

- Added IFF-ILBM support.
- Maximum numbers of recursive directories set at 64.

23/7/98 - Version 0.7

- Added NOWRITE option.
- Added BITPLANES option.

12/7/98 - Version 0.6

- Small grammatical change.

6/7/98 - Version 0.6

- Added JPEG support.

4/7/98 - Version 0.5

- Added PNG support.
- Changed name from GifComment to GfxComment.

29/6/98 - Version 0.4

- All initial features implemented.

27/6/98 - Version 0.1

- Started coding GifComment.
-