

akPNG_Documentation

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Chapter 1

akPNG_Documentation

1.1 akPNG : Documentation

akPNG.datatype V43.5

- licenseable SHAREWARE -

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A PerSuaSiVe SoftWorX PRODUCT.

Needs Kickstart V3.x

Release Date : 24.11.1996

Copyright
Disclaimer
Distribution
Payment
Usage and Notes
68030-68060
Prefs
Correspondence
Thanks
Version-History

_ //
Only \X/ Amiga makes it possible!

The CHAOS-Theory (rough english translation):

The Chaos theory for example deals with trying to catch the god damned butterfly, which caused the many storms the last times.
(see "Witches Abroad" by Terry Pratchett)

Ahm...well:

...and thanks for all the fish.

1.2 copyright

The akPNG.datatype in this version and its documentation files are (C)opyright 1996 by Andreas R. Kleinert. All rights reserved.

The right of using this program is granted to you by paying the a SHAREWARE-fee of 15 DEM (10 U\$) or equivalent to the author, or by being a owner of a Shareware program or commercial software, whose authors did avoid that for the users of their software (see below).

Should any of the listed terms and clauses within this document not be valid in conjunction with the law of certain countries this does not affect the validity of the other clauses.

This software is based in part on the png reference library (including libpng and zlib), which allows being used e.g. for freely distributable and commercial programs.

libpng:

Copyright (c) 1995, 1996 Guy Eric Schalnat, Group 42, Inc.

Contributing Authors:

Andreas Dilger
Dave Martindale
Guy Eric Schalnat
Paul Schmidt
Tim Wegner

zlib:

(C) 1995-1996 Jean-loup Gailly and Mark Adler

1.3 disclaimer

The author takes no responsibility for any results of the use of this program.

This software is provided "AS IS" and there is no warranty of any kind, so that you use this software at your own risk.

The author reserves the right to discontinue development of the program.

1.4 distribution

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WHEN being included with commercial or Shareware programs I hereby demand to receive a free copy of the final program - after you did so, the users of your program no longer need to pay the Shareware fee to me.

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1.5 payment

You may send cash money in an envelope, euro-cheques, or just transfer the 15 DEM (10 U\$) shareware fee to the following account (mention your name): Deutsche Bank Siegen, BLZ 46070090 Kto. 0298174

1.6 Usage and so on

Usage

Just install the datatype files to their appropriate directories, and copy the akPNGPrefs command to SYS:Prefs (optionally).

* if your datatypes stop working (unknown file format), please don't blame me, but at first check, whether you've still installed an already expired beta version of picture.datatype V43

Program information

akPNG.datatype is a new PNG datatype, which is based on the latest PNG sources (zlib V1.0.2, pnglib V0.88).

So it does support 8 Bit color mapped files and True color files (16, 24/32, 48 Bit) while 16 Bit (5:5:5/5:6:5) will be expanded, and 48 Bit (16:16:16) will be cut down to 24 Bit (8:8:8)

With V39-V42 picture.datatype it either produces 256 color palette-based or HAM6/8 output (256 colors exported unmodified, 24 Bit data converted to either HAM 6 or HAM 8) with Ralph Schmidt's picture.datatype V43 any 24 Bit output will be done unmodified.

You must use the included preferences program for best configuration.

akPNG.datatype is SHAREWARE, the future depends on YOU (-> see README).

1.7 Making use of 680x0 CPUs

If you do own an 68020/030+68881/882 FPU or 68040/060+FPU you may wish to make use of these.

Usually, Amiga OS' mathieeee-Libraries do automatically manage the coprocessor support, but for some reasons, these libraries are not used with this datatype:

- they can't be shared between processes
- they are not actually optimized for 68040/060+FPU as with OS 3.1

Unfortunately, the used mathtrans.library does not support an FPU at all.

But there's a solution: it is strongly suggested, to use some of the available math-library replacements and/or patches from Aminet.

FMATH from Martin Berndt, for example does replace all of them:

- mathieeedoubbas.library
- mathieeedoubtrans.library
- mathieeesingtrans.library
- mathtrans.library

It is strongly recommended to install V40.6 or a newer version from Aminet (Aminet:util/libs/FMath406.LHA).

There's also a bug in mathieeesingbas.library (which resides in ROM), so that you should install a patch for that:

For example "SetMathPatch" (coming with e.g. GhostScript) or a newer SetPatch Version V43.x (recommended - e.g. available as "public beta" from ftp.amiga.de).

1.8 correspondence

	You may reach me the following way.	
	Send bug-reports, money or whatever to:	

	* SuperView Development & Registration *	
	* DRAFU Development & Registration *	
	* Image Engineer Registration Site Europe *	
	PerSuaSiVe SoftWorX	
	Andreas R. Kleinert	

```
|
|          Sandstrasse 1
|          D-57072 Siegen
|          Germany, Europe
|
| Any snail mail to the old address will still be routed.
|
|          Phone:  +49-271-22869 also FAX + AM
|                  +49-271-22838
|
|          Weekdays after 17.00h.
|
|          When calling via phone you may leave a message,
|          if I'm not available - but don't expect me
|          calling back to USA, Australia, ... since
|          german phone rates are HIGHLY expensive.
|
```

EMail:

DO not SEND ANY binaries (or uuencoded) VIA THE
 FOLLOWING EMAIL ADDRESSES, EXCEPT MAYBE small ONES
 VIA t-online.de (smaller or equal 16 KB).
 THANK YOU.

```
- Fido      Andreas Kleinert 2:2457/350.18
- Usenet
      Andreas_Kleinert@superview.ftn.sub.org  (Fido-Gate)
      Andreas_Kleinert@t-online.de           (T-Online)
      ARK@COB.wwbnet.de                      (Z-Netz)
```

- If nothing else works, try one of these public
 Fido-Usenet gateways:

```
In Germany:
      Andreas_Kleinert@p18.f350.n2457.z2.fido.sub.org
```

```
From USA or elsewhere:
      Andreas_Kleinert@p18.f350.n2457.z2.fidonet.org
```

Please note, that the "superview.ftn.sub.org"
 domain will perhaps be renamed in late 1996.

1.9 thanks

Thanks go to (in order of appearance ;-)
 =====

```
- Ingo Jürgensmann      - Thomas Boerker      - Andreas Mixich
- Robert Wahnsiedler    - André Laemmer       - Edwin H. Bielawski
```

1.10 prefs

akPNGPrefs

 akPNGPrefs is the Preferences Program for akPNG.datatype.
 GUI has been created with Designer 1.54 by Ian O'Connor.
 Icon by Detlef Winkler (same as SVPrefs.info)

You can do the following, settings, which will be written
 to ENV: and/or ENVARC: into a settings file called
 "Datatypes/akPNG.prefs":

- 1) HAM_MODE=(HAM6|HAM8)
- 2) PROGRESSBAR=(ON|OFF)

That's mostly self-explaining, but as an example,
 here are the default settings and a short explanation:

HAM_MODE=HAM6
 PROGRESSBAR=ON

General Explanation of Options
 =====

- 1) HAM_MODE

 HAM6: generates HAM6 output for 24 Bit, when running V39-42
 HAM8: generates HAM8 output for 24 Bit, when running V39-42

- 2) PROGRESSBAR

 ON: pop up percentage display
 OFF: do not pop up percentage display

1.11 history

History

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- V43.5 (24.11.96) : - progress bar now treated like requester.
 Now will check pr_WindowPtr before trying
 to open on (default) pubscreen
 (-> Edwin H. Bielawski)
- added special fix for AWeb 2.1, which has
 pr_WindowPtr correctly set, but does let
 the Datatype operations do by an "AWebIP" task,
 which has not. Thus when being called by
 "AWebIP" we now refer to the pub screen
 "AWeb" instead of fiddling with pr_WindowPtr
- V43.4 (23.11.96) : - progress bar window no longer auto activated
 (-> André Laemmer)
- when called by IPrefs (e.g. for WBPatterns),
 a progress bar will never pop up
- did not correctly read interlaced (progressive)
 PNGs
 (-> Andreas Mixich)

- on missing picture.datatype V39, prefs program would have claimed about missing V40 (-> Robert Wahnsiedler)
- now exports transparency information (256 color graphics only)

V43.3 (12.11.96): - completely recompiled with SAS/C V6.57
- added 68030, 68040 and 68060 version (-> Ingo Jürgensmann)
- there was a broken version of V43.2 (3.11.96) (in parts still labeled as V43.1) which unfortunately went on Aminet, but hopefully had been overwritten by the right version later
- added doc section about 680x0 CPUs and FPU's. Please follow the instructions given and use the FMath patches, also SetPatch 43. The latest version floating around was SetPatch V43.5 - which is currently not on ftp.amiga.de, but maybe available elsewhere
- progress bar did display "akJFIF" instead of "akPNG"
- changed PubScreen behaviour of progress bar (-> Thomas Boerkel)

V43.2 (3.11.96) : - bugfixes

V43.1 (1.11.96) : - first release (with V43 support)