

CyberView.doc

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Chapter 1

CyberView.doc

1.1 The Tale of CyberView

CyberView V3.0

=====

An universal image viewer for the CyberGraphX WB Emulation

Purpose

Features

Installation

Using CyberView from CLI

Using CyberView from Workbench

Controlling CyberView's display

History

Future

Copyright

Acknowledgements

Author

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1.2 Purpose of CyberView

At the WoC 1994 in Cologne I had a nice talk with Frank Mariak one of the authors of CyberGraphX about their plans to write a hardware independent Workbench Emulation which should add 24bit support to Intuition.

Because Commodore probably will never provide a operating system with RTG I liked the idea of a new standard and decided to support it by writing an image viewer for CyberGraphX.

This program called "CyberView" is the result of this effort.

1.3 Features of CyberView

CyberView will run on any Amiga with OS 3.0 (or newer) and an installed CyberGraphX system. The amount of free memory which is required depends on the size of the images which shall be viewed. If you use the slide show mode twice as much free memory is required because CyberView will open two screens at the same time. CyberView can be used from CLI and Workbench.

Supported file formats are:

- GIF
- IFF ILBM
(1-8 bitplanes, EHB, HAM, HAM8, 24bit)
- JFIF
(based in part on the work of the Independent JPEG Group)
- DataTypes
- PBM+
(formats P1-P6)
- IFF PBM
(only 8 bitplanes, no masking data)
- PCX
(monochrom, EGA 1-4 bitplanes, VGA, 24bit)

1.4 Using CyberView from CLI

SYNOPSIS

```
CyberView FILES/M,DELAY/K/N,DISPLAY/K,MINDEPTH/K/N,BOARD/K  
INFO/S,CENTER/S,CORRUPT/S,SLIDE/S,REQUESTER/S
```

ARGUMENTS

FILES: filename(s) or AmigaDOS pattern(s) of the image(s)
which shall be viewed

DELAY: automatically end viewing the current picture after
the supplied number of seconds

DISPLAY: name of the screenmode to use

CENTER: center picture on screen

MINDEPTH: minimal depth to use for display
(8, 15, 16 or 24bit)

BOARD: name of the graphics board to use in case that
more than one is installed

INFO: view informations about the builtin loaders

CORRUPT: view even corrupt or incomplete pictures

SLIDE: activate slide show mode

REQUESTER: open a file requester even if one or more filenames
where supplied as argument

EXAMPLES

Open a file requester to select a picture:
CyberView

Load a single picture:
CyberView Awakening.JPG

Load all pictures ending with ".ILBM", go to the next picture
after 10 seconds:
CyberView #?.ILBM DELAY 10

Load "One.GIF" and "Two.PBM" even if they are corrupt or imcomplete
and show the centered on a CyberVision64:
CyberView One.GIF Two.PBM CORRUPT CENTER BOARD CyberVision

Load a picture and show it on a 320x240 screen:
CyberView Three.PPM DISPLAY "DISPLAY=CVision: 8Bit 320 x 240"

View all pictures in "Images:" as slide show. The next picture
is loaded after 5 seconds:
CyberView Images:#? DELAY 5 SLIDE

Show informations about the builtin loaders:
CyberView INFO

1.5 Using CyberView from Workbench

There are two ways of using CyberView from the Workbench:

1.) As Default Tool:

Specify CyberView as the default tool of an image icon.
Then double click on the image icon to view the picture.

2.) Multi Selection:

You can also use Workbench's multi selection feature to view
pictures using CyberView. Click (single click) on an image
icon, then press the shift key on your keyboard and continue
to single click as many image icons as you wish.
When you're done double click on the CyberView program icon
(while still holding the shift key).

You can configure CyberView by setting the tooltypes "DELAY", "DISPLAY",
"MINDEPTH", "BOARD", "CENTER", "CORRUPT", "SLIDE" and "REQUESTER" in the
program icon. These tooltypes have the same effect as the
corresponding CLI arguments.

1.6 Controlling CyberView's display

While CyberView is loading a picture you can use SPACE, RETURN or any mouse button to skip to the next picture. If you press ESC or CTRL-C CyberView will be terminated.

After the picture has been loaded you can use ESC or CTRL-C to end CyberView. If you press a mouse button or any other key the next picture will be loaded.

Oversized pictures which don't fit on the screen can be scrolled with the cursor keys. If you hold down SHIFT while pressing one of the cursor keys the display will be scrolled half the screen resolution, with ALT down you can jump to the edges of the picture.

1.7 Some ideas for the future of CyberView

These features might be added to future versions of CyberView:

- add support for more file formats

1.8 Development of CyberView

CyberView 1.0:

- first public release
- loaders: ILBM 1.0, JFIF 1.0, DataTypes 1.0

GIF 1.0

- Because CompuServe is said not to ask for payment for freeware I decided to risk to release the GIF loader.

DataTypes 1.1:

- The image data is no longer copied but directly used if possible. This saves both memory and time.

CyberView 1.1:

- loaders: ILBM 1.0, JFIF 1.0, DataTypes 1.1, GIF 1.0
- added "DELAY/N" argument

PBM 1.0:

- new loader for PBM+ files

CyberView 1.2:

- loaders: ILBM 1.0, JFIF 1.0, DataTypes 1.1, GIF 1.0, PBM 1.0
- CyberView can now be aborted by pressing CTRL-C even if the progress window was not opened.
- some small improvements

GIF 2.0:

- adjusted to CyberView 2.0

JFIF 2.0:

- new loader based in part on the work of the Independent JPEG Group

IFF 1.0:

- replaces the old ILBM loader, supports IFF-ILBM and IFF-PBM

PBM 2.0:

- adjusted to CyberView 2.0

DataTypes 2.0:

- adjusted to CyberView 2.0

PCX 1.0:

- new loader for PCX files

CyberView 2.0:

- major rewrite:
 - Image data is now read line by line and transferred to the screen immediately. This saves not only memory, you can also look at the picture while it is loaded.
- loaders: GIF 2.0, IFF 1.0, JFIF 2.0, PBM 2.0, DataTypes 2.0, PCX 1.0
- improved buffered I/O (PBM loader now twice as fast)
- new command line arguments
- can be made resident
- opens a file requester if no filename is supplied

CyberView 2.1:

- loaders: GIF 2.0, ILBM 1.0, JFIF 2.0, PBM 2.0, DataTypes 2.0, PCX 1.0
- opens a file requester if started from Workbench without arguments
- some small improvements

GIF 2.1:

- small speed improvement

IFF 1.1:

- 24bit ILBM pictures are now loaded more than 50% faster.

CyberView 2.2:

- loaders: GIF 2.1, IFF 1.1, JFIF 2.0, PBM 2.0, DataTypes 2.0, PCX 1.0
- fixed the black screen problem
- improved user break handling
- new command line arguments

PBM 2.1:

- fixed wrong error code

DataTypes 2.1:

- supports (still unreleased) V43 "picture.datatype"

GIF 2.2:

- The recognition of corrupt pictures got lost in GIF 2.1.

IFF 1.2:

- added sanity check for page height and width

CyberView 2.3:

- recompiled with SAS/C 6.56 and CPU=68020
 - loaders: GIF 2.2, IFF 1.2, JFIF 2.0, PBM 2.1, DataTypes 2.1, PCX 1.0
-

- some small bug fixes
- If "CENTER/S" was used the black screen problem could still occur.
- new command line argument SLIDE/S
- true color pictures can be displayed on 8Bit screens

Tower 2.0:

- new JFIF loader using Christoph Feck's Tower JPEG Codec Class

DataTypes 2.2:

- now handles HAM and HAM8 pictures when using the V43 "picture.datatype"

PBM 2.2:

- reduced memory usage for monochrom pictures

GIF 2.3:

- reduced memory usage for monochrom pictures
- supports pictures with local color maps

CyberView 3.0:

- fixed bug in asynchron I/O
- Large pictures are now buffered in normal memory. So you are able to view pictures which require more memory than available on your graphics board. Scrolling is now controlled with the cursor keys instead of mouse movements.
- lots of new command line arguments
- On Workbench startup the configuration is taken from the program icon.
- loaders: GIF 2.3, IFF 1.2, Tower 2.0, PBM 2.2, DataTypes 2.2, PCX 1.0

1.9 Installation of CyberView

To install "CyberView" you only have to copy the binary and its icon to any directory you like.

Users of my directory utility Filer (version 3.00 or newer) can add these lines to their configuration file to use CyberView:

```
CLASS "#?", "FORM????ILBM", "CyberView %s CENTER"
CLASS "#?", "FORM????PBM ", "CyberView %s CENTER"
CLASS "#?", "???????JFIF", "CyberView %s CENTER"
CLASS "#?", "GIF8", "CyberView %s CENTER"
CLASS "#?", "P1", "CyberView %s CENTER"
CLASS "#?", "P2", "CyberView %s CENTER"
CLASS "#?", "P3", "CyberView %s CENTER"
CLASS "#?", "P4", "CyberView %s CENTER"
CLASS "#?", "P5", "CyberView %s CENTER"
CLASS "#?", "P6", "CyberView %s CENTER"
CLASS "#?.PCX", "", "CyberView %s CENTER"
```

1.10 Copyright and other legal topics

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preserved on all copies.

No guarantee of any kind is given that the program described in this document is 100% reliable. You are using this material at your own risk. The author *can not* be made responsible for any damage which is caused by using these programs.

The JPEG codec is Copyright © 1994 Christoph Feck, TowerSystems. All Rights Reserved. It is based in part on the work of the Independent JPEG Group.

This package is freely distributable, but still copyright by Matthias Scheler. This means that you can copy it freely as long as you don't ask for more than nominal copying fee.

Permission is granted to include this package in Public-Domain collections, especially in Fred Fishs Amiga Disk Library (including CD ROM versions of it) and one of the AmiNet CD ROMs. The distribution file may be uploaded to Bulletin Board Systems or FTP servers. If you want to distribute this program you must use the unmodified distribution archive.

CyberView must NOT be included or used in commercial programs unless by written permission from the author. Permission for Phase5 to distribute this program together with their graphics board CyberVision 64 is hereby given.

CyberView must NOT be used on any machine which is used for the research, development, construction, testing or production of weapons or other military applications. This also includes any machine which is used for training persons for *any* of the above mentioned purposes.

CyberView must NOT be used with any kind of CyberGraphX emulation not authorized by Vision Factory Development.

1.11 Hall of Fame

The following people helped me during the development of "CyberView":

Frank Mariak

He is one of the authors of CyberGraphX, made bug fixes for me, gave me hints, always supplied me the latest version and of course tested CyberView.

Christoph Feck

He gave me an example source for loading pictures with the "datatypes.library" and wrote the "jpeg.codec" used to load JFIF pictures.

Jürgen Weinelt

He helped me writing my (unpublished) GIF datatype on which CyberView's GIF loader is based. He also supplied me some PCX pictures for testing my PCX loader.

Ralph Schmidt

He gave me the source for a fast planar chunky converter.

Michael Hohmann, Markus Stipp, Stefan Becker, Stefan Stuntz, Stefan Gybas
They helped me beta-testing CyberView.

1.12 How to reach the Author

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