

CyberWindow.doc

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Chapter 1

CyberWindow.doc

1.1 The Tale of CyberWindow

CyberWindow V2.1

=====

An universal image window viewer for the CyberGraphX WB Emulation

Purpose
Features

Installation
Using CyberWindow

History
Future

Copyright
 Acknowledgements
Author

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1.2 Purpose of CyberWindow

After the basic work on CyberView was finished Frank Mariak had the idea for a window based image viewer which should demonstrate the possibility to use Intuition screens with 15, 16 or 24 bit.

When the first quick hack was done it was great to see a true color picture in 65536 colors inside an Intuition window. So I decided to continue the development.

This program called "CyberWindow" is the result of this development.

1.3 Features of CyberWindow

CyberWindow will run on any Amiga with OS 3.0 (or newer) and an installed CyberGraphX system version 40.41 (or newer). The amount of free memory which is required depends on the size of the images which shall be viewed. CyberWindow can only be used from CLI.

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 CyberWindow

SYNOPSIS

CyberWindow FILES/M, PROGRESS/S, PUBSCREEN/K, SCALE/S

ARGUMENTS

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

PROGRESS: open progress indicator window

PUBSCREEN: public screen with a depth of at least 15 bit on
which the progress indicator window and the
graphics window will be opened

SCALE: scale the picture instead of clipping it if the
window is resized

EXAMPLES

Show informations about the builtin loaders:
CyberWindow

Load a single picture and show it on the default public screen:
CyberWindow Awakening.JPG

Load "One.GIF" and "Two.PBM" with the progress indicator
window opened on a public screen called "MyScreen".
CyberWindow One.GIF Two.PBM PROGRESS PUBSCREEN MyScreen

Load all pictures ending with ".ilbm" with the progress indicator window opened and scale the pictures in the window.

```
CyberWindow #?.ILBM PROGRESS SCALE
```

Use a file requester to select pictures:

```
CyberWindow `RequestFile TITLE CyberWindow MULTISELECT`
```

1.5 Some ideas for the future of CyberWindow

These features might be added to future version of CyberWindow:

- reduce amount of free memory required to load pictures
- Workbench support

1.6 Development of CyberWindow

CyberWindow 1.0:

- first public release
- loaders: ILBM 1.0, JFIF 1.0, DataTypes 1.1, GIF 1.0, PBM 1.0

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

CyberWindow 2.0:

- adjusted to CyberView 2.0's loaders
- new optional scaled display
- 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)
- can be made resident

PBM 2.1:

- fixed wrong error code

DataTypes 2.1:

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

GIF 2.2:

- small speed improvement

IFF 1.2:

- 24bit ILBM pictures are now loaded more than 50% faster.
- added sanity check for page height and width

CyberWindow 2.1:

- 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
- If the "SCALE/S" option is supplied the window may be sized larger than the original image size.

1.7 Installation of CyberWindow

To install "CyberWindow" you only have to copy the binary to any directory you like.

Users of my directory utility Filer (version 3.20 or newer) can add these lines to their configuration file to use CyberWindow:

```
CLASS "#?", "FORM????ILBM", "CyberWindow %s PROGRESS PUBSCREEN %p"  
CLASS "#?", "FORM????PBM ", "CyberWindow %s PROGRESS PUBSCREEN %p"  
CLASS "#?", "???????JFIF", "CyberWindow %s PROGRESS PUBSCREEN %p"  
CLASS "#?", "GIF8", "CyberWindow %s PROGRESS PUBSCREEN %p"  
CLASS "#?", "P1", "CyberWindow %s PROGRESS PUBSCREEN %p"  
CLASS "#?", "P2", "CyberWindow %s PROGRESS PUBSCREEN %p"  
CLASS "#?", "P3", "CyberWindow %s PROGRESS PUBSCREEN %p"  
CLASS "#?", "P4", "CyberWindow %s PROGRESS PUBSCREEN %p"  
CLASS "#?", "P5", "CyberWindow %s PROGRESS PUBSCREEN %p"  
CLASS "#?", "P6", "CyberWindow %s PROGRESS PUBSCREEN %p"  
CLASS "#?.PCX", "", "CyberWindow %s PROGRESS PUBSCREEN %p"
```

And of course you have to use a display mode with a depth of at least 15 bits e.g. "PICASSO:800x600x64K".

CyberWindow can also be used as external viewer for Reinhard Haslbeck's ImageDesk. Just set the external viewer for GIF, ILBM, JPEG, PNM and PCX to "CyberWindow %s PROGRESS PUBSCREEN IMAGEDESK" and use a screen mode with a depth of at least 15 bits.

1.8 Copyright and other legal topics

CyberWindow (c) 1995 by Matthias Scheler

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CyberWindow 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.

CyberWindow 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.

1.9 Hall of Fame

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

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 CyberWindow.

Christoph Feck

He gave me an example source for loading pictures with the "datatypes.library".

Jürgen Weinelt

He helped me writing my (unpublished) GIF datatype on which CyberWindow'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 CyberWindow.

1.10 How to reach the Author

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