

ViewTool_english

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COLLABORATORS

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Chapter 1

ViewTool_english

1.1 ViewTool

This is the documentation on using ViewTool.

What's new ?

What is it ?

Requirements

Installation

Usage

The ARexx port

History

What's next ?

Bugs

Thanks

1.2 What is is ?

ViewTool is a viewer for jpeg images (currently) only, designed to run on Phase5's multiprocessor accelerator boards featuring a 68060 and a 604e.

1.3 Requirements

You need a MC68020+, optionally a PowerPC 603+. Currently, images are displayed only on a high/true color cybergraphics workbench screen.

1.4 Installation

Use the installer script. You need at least the installer version 43+. It can be found on <http://www.amiga.de/>.

If you use the average user installation procedure you will only have to select a drawer in which a new drawer will be generated. All relevant files will be copied there.

1.5 Usage

Either start it from Shell or by a double click on it's icon.

If the program icon has the tooltip line CX_POPUP=YES, the preferences window will pop up right away. If that line is either not present or is set to CX_POPUP=NO the preferences have to be opened by the commodity 'Exchange' or a similar program.

The menu has only a few self-explanatory (I hope) options.

At the window's bottom there are 4 standard gadgets:

Save: All gadget contents are converted into tooltips and written into the ViewTool icon. These are read on every startup and all gadgets are set to those values. All contents are declared valid and will affect all further image processing.

Use: Gadget contents are only declared valid and not saved.

Cancel: All gadget contents are set back to last saved/used. All modifications are lost.

Above those three there is a cycle gadget which is used to select different pages:

General: Basic preferences.

JPEG: Preferences affecting JPEG decoding/displaying.

Individual preferences pages:

General:

=====

Popup prefs keys: Type in the key combination you like to use to open the preferences window, for example "lshift lalt j" (without the '"').

Popup loader keys: Same as above to open an asl requester to select the image(s) to load.

Initial drawer: Type in the drawer to be used for the file requester or click 'Initial drawer' to pop up a requester to select a drawer.

Display type:

Screen : Open a new screen for every file.

Window : Display all files in windows.

Default public screen: If the box is checked, all windows are opened on the default public screen.

(Only selectable, if Display type = Window).

Custom screen: If the box is checked, all windows are opened on a public screen, if possible, which name can be typed into the string gadget. Click the button gadget on the right to pop up a requester of all currently available public screens.

(Only selectable, if Display type = Window).

Private screen: If the box is checked, a screen will be opened, if possible, of the type displayed. Select the screen type by a requester. Note the two cases:

Display type = Window : If 'best mode' is selected, the workbench screen will

be cloned and all windows will be opened on that screen.

Display type = Screen : If 'best mode' is selected, a screen will be opened that matches best the image's dimensions.

Output window type: Only valid if Display type = Window.

Scale : Image will be resized to actual window's dimensions.

Scroll : Scroll the image within its window.

Ask : You will be asked for the window type to be used every time.

Center windows: If the box is checked, all windows will be opened centered on their screens.

Progress monitoring: If the box is checked, the decoding in progress is monitored by a colored bar in a window.

Use RMB: If the box is checked, by pressing the right mouse button the active window is closed or in slideshow mode the next image will be displayed.

Slideshow: If the box is checked and more than one image is selected to be processed, they will be display one after another instead of all at once.

Beware: While this mode executes, it is not possible to open new windows, quit the application, open or close the preferences window or modify the preferences !

Quit the mode with ESC.

Delay: Type in the delay in seconds until to display the next image (see above).

A delay of "0" will cause the application to wait, until the window is closed manually.

Memory model: Select a model depending on the amount of free memory:

Small : see below

Medium : see below

Large : Files will be loaded completely into memory, decoded, then removed.

Only the decoded data remains in memory.

JPEG

=====

Scaling factor: JPEG images may be scaled automatically while decoding to a fraction of the original dimensions. This might speed up decoding significantly and reduce memory requirements as well.

Gamma correction: Enlight an image (> 1) or darken it (< 1). Correction slows image processing down, so it can be disabled by entering either 0, 1, or nothing or an incorrect string. Expected input is a rational (or floating point) number of the following appearance: `[+|-]digit{digit}[,digit{digit}]`

Legend:

| : or

[] : character in brackets may appear once or not at all

{ } : character in brackets may appear as often as wanted or not at all

digit: 0|1|2|3|4|5|6|7|8|9

. : decimal point

+|- : sign

DCT Method: Select decoding method:

Fast integer : fast, not very accurate

Slow integer : slower, more accurate

Floating Point : slowest, most accurate

Do fancy upsampling: If box is checked, output quality of decoded image is being slightly improved.

Do block smoothing: If box is checked, images are being smoothed while decoded. But this is done (here) not visible in the background, that means, currently there is no need or benefit from activating this option.

Quantize colors: If box is checked, reduce image to 256 colors.

<Not implemented yet>

Two pass quantize: If box is checked, reduction to 256 colors is being done more accurate.

<Not implemented yet>

Dither mode: Affects reduction process to 256 colors.

<Not implemented yet>

1.6 The ARexx port

In general, an unknown or invalid command will return RC = 10.

Currently, there are 4 arexx commands:

LOADIMAGE FILE/A/K

Load one (or more) image(s). For example,

LOADIMAGE 'FILE=Images:#?.jp(e)g'

displays all images within the directory "Images:", which names end with either ".jpg" or ".jpeg".

Return:

RC = 0: Command successfully executed.

RESULT holds an identification number:

Slideshow mode activated:

No need to preserve the number, consider it to be invalid.

Slideshow mode deactivated:

The return value is the identification of the last successfully loaded file and it serves as a parameter for FREEIMAGE.

RC = 5: Command couldn't be executed, probably out of memory situation.

FREEIMAGE LOADID=ID/N/A/K:

Close a window. Input is the return value from LOADIMAGE (see above).

Invalid inputs are ignored.

Return:

RC = 0: Command executed successfully.

RC = 5: Input invalid.

Example:

```
/* $VER: Load one image and free it.
```

```
*/
```

OPTIONS RESULTS

ADDRESS 'ViewToolRexx'

LOADIMAGE 'Images:AnyPic.jpg'

res1 = RC

res2 = RESULT

IF res1 = 0 THEN

DO

SAY 'Image loaded successfully'

FREEIMAGE 'ID='res2

END

ELSE

DO

SAY 'result =' res1

SAY 'result2 =' res2

END

EXIT(0)

CLOSEALL:

Close all windows.

QUIT:

Quit application. Same as 'Quit' from preferences window.

(See also examples in the Rexx subdirectory.

1.7 Bugs

If you find any bugs report them, but neither send me any binaries unless I ask for them nor just tell me 'it doesn't work'. That's not enough as you can easily figure out. I need your system configuration, library versions, patches you are running, an error description as accurate as possible and which executable caused the error (version, 68k or PPC).

And don't ask, when updates will be available, this programming stuff is only a part time job.

Be sure to have the most recent versions of 'SetPatch' installed. If you use a powerpc board you also need the latest versions of 68060.library and ppc.library to be installed.

This software was primarily written in order to utilize the powerpc processor on Phase5's accelerator boards, that means, it runs in a multiprocessor environment with a M68060 and a 604e. Support for M68020+ single processor systems is more or less a side effect.

If you want to see any additional features beside those mentioned above send me an email. Please note, that I do not plan to add support for shell parameters.

Send the email to markus.adamski@cwv.de

1.8 Thanks to...

...The Independent JPEG Group...

... Sun Microsystems, Inc.:

```
/* @(#)e_exp.c 1.3 95/01/18 */
```

```
/*
```

```
* =====
```

```
* Copyright (C) 1993 by Sun Microsystems, Inc. All rights reserved.
```

```
*
```

```
* Developed at SunSoft, a Sun Microsystems, Inc. business.
```

```
* Permission to use, copy, modify, and distribute this
```

```
* software is freely granted, provided that this notice
```

```
* is preserved.
```

```
* =====
```

```
*/
```

```
/* @(#)e_log.c 1.3 95/01/18 */
```

```
/*
```

```
* =====
```

```
* Copyright (C) 1993 by Sun Microsystems, Inc. All rights reserved.
```

```
*
```

```
* Developed at SunSoft, a Sun Microsystems, Inc. business.
```

```
* Permission to use, copy, modify, and distribute this
```

```
* software is freely granted, provided that this notice
```

```
* is preserved.
```

```
* =====
```

```
*/
```

...Carsten Blatt for 'viewPPC.rexx'...

...all who submitted bug reports and improvement suggestions.

1.9 What's new ?

Major parts of the program have been rewritten, see also the history.

Now there are more (and hopefully better) arexx commands.

Hopefully got rid of all spelling errors in the documentation.