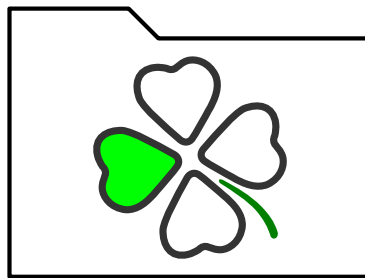


CLFiler V1.43



Manual V1.6

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Introduction

!CLFiler is part of our RISC OS modernization initiative. We executed crowd funding on Kickstarter.com in 2021 to find funders to support our goals to promote RISC OS and receive funds to develop multiple areas of RISC OS.

!CLFiler is intended to replace the legacy RISC OS Filer which lacks many features found in other popular operating systems.

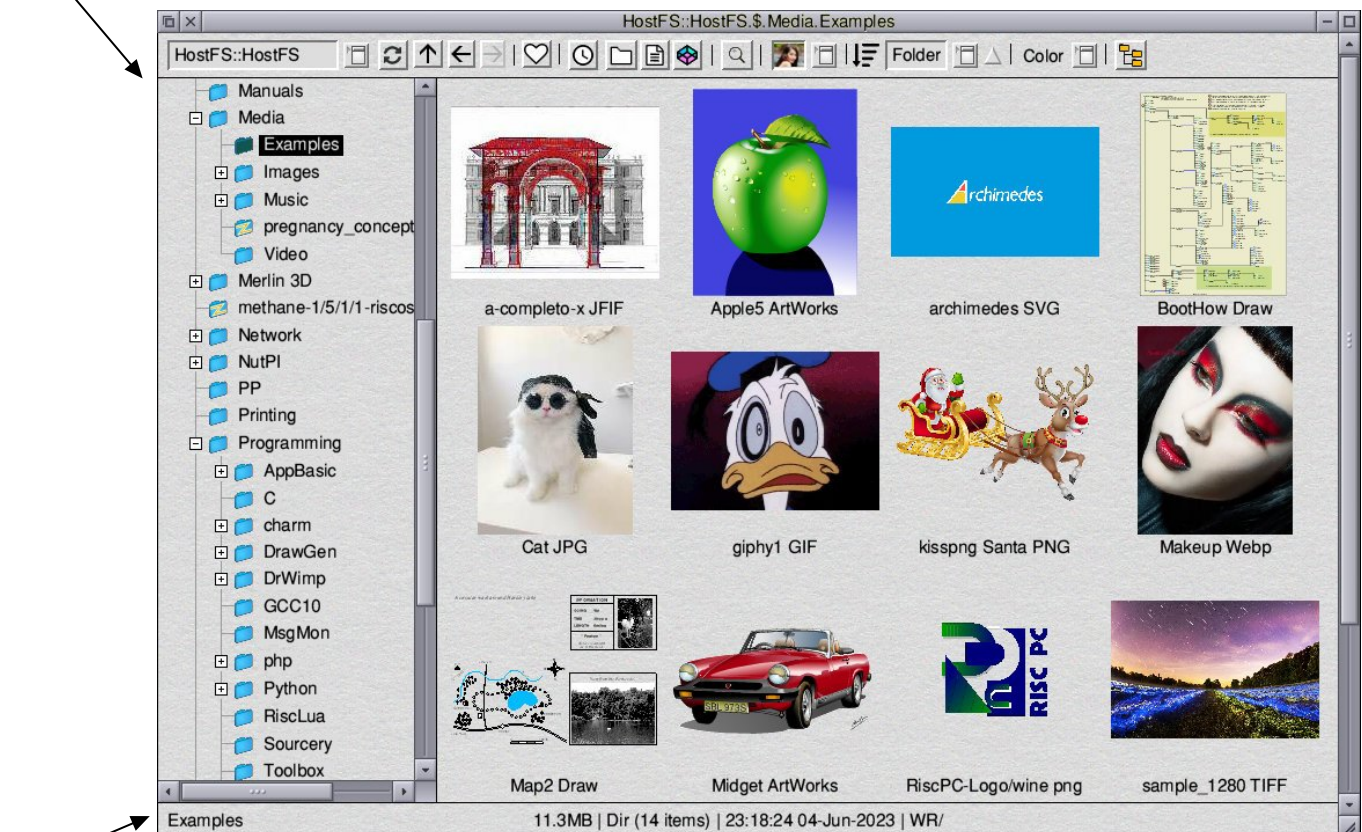
- Drag & Drop files to folders (= directories) (with confirmation)
- Folder tree
- Thumbnails for image files (Sprite, JPEG, JFIF, GIF, PNG, WebP, TIFF, SVG, Movies) (184 px, 92 px, 48 px, 24 px)
- Support of standard key short-cuts (CTRL+A, CTRL+C, CTRL+V, CTRL+X, Delete)
- Better support for keyboard inputs
- Search for file names
- Support for long file names
- Display of folder sizes
- Alternative folder displays to detect big files or big folders (2D boxes (Treemap) & 2D bars)
- Timeline for last used files, folders, and applications (currently only when started from CLFiler)
- Customizable background colors for folders
- Integrated Image viewer
- Image viewer offers image conversion and scaling.

Overview

Drive selector Update Navigate Favourites Timeline Search Display types Sort options Background color

Treeview

Tree ON/OFF



Installation

To install !CLFiler you just copy it from the ZIP file to the desired location on your drive.

You should also download and install !ImageMagick for image processing and !FFmpeg for movie thumbnails.

Before starting !CLFiler you also need to install some modules in !Boot.

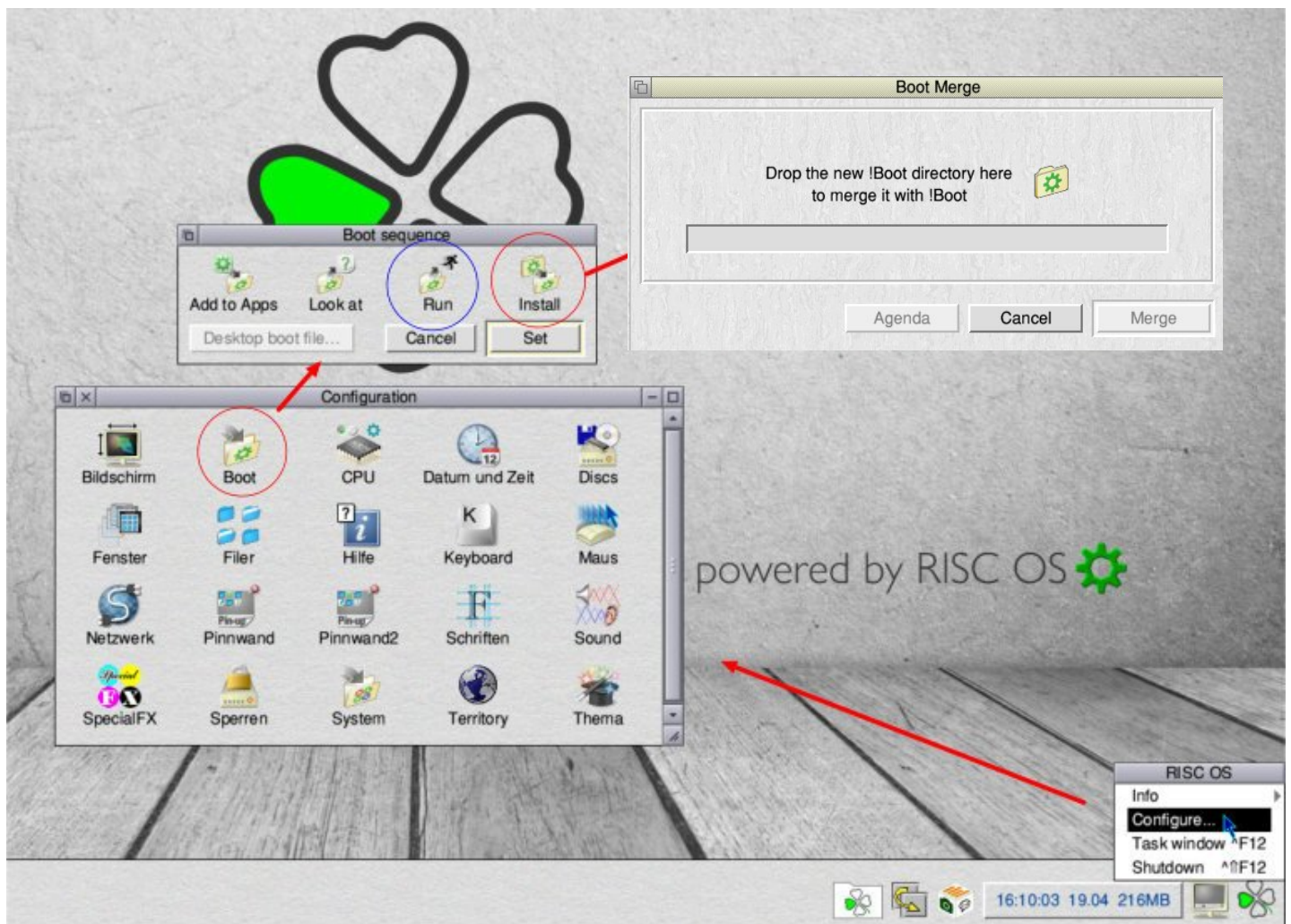
Please use the official install option of RISC OS.

!CLFiler is developed with GCC, toolbox, and TBX library.

In addition it uses the Treeview module.

Update !Boot

1. Go to RISC OS system icon (Acorn logo, Cog (RO5), Cloverleaf) and open the menu and choose "Configure".
2. Click on "Boot" next.
3. Click on "Install"
4. Drag the !Boot folder of the !CLFiler ZIP file onto the "Merge Boot" window.



Auto-run !CLFile on start-up

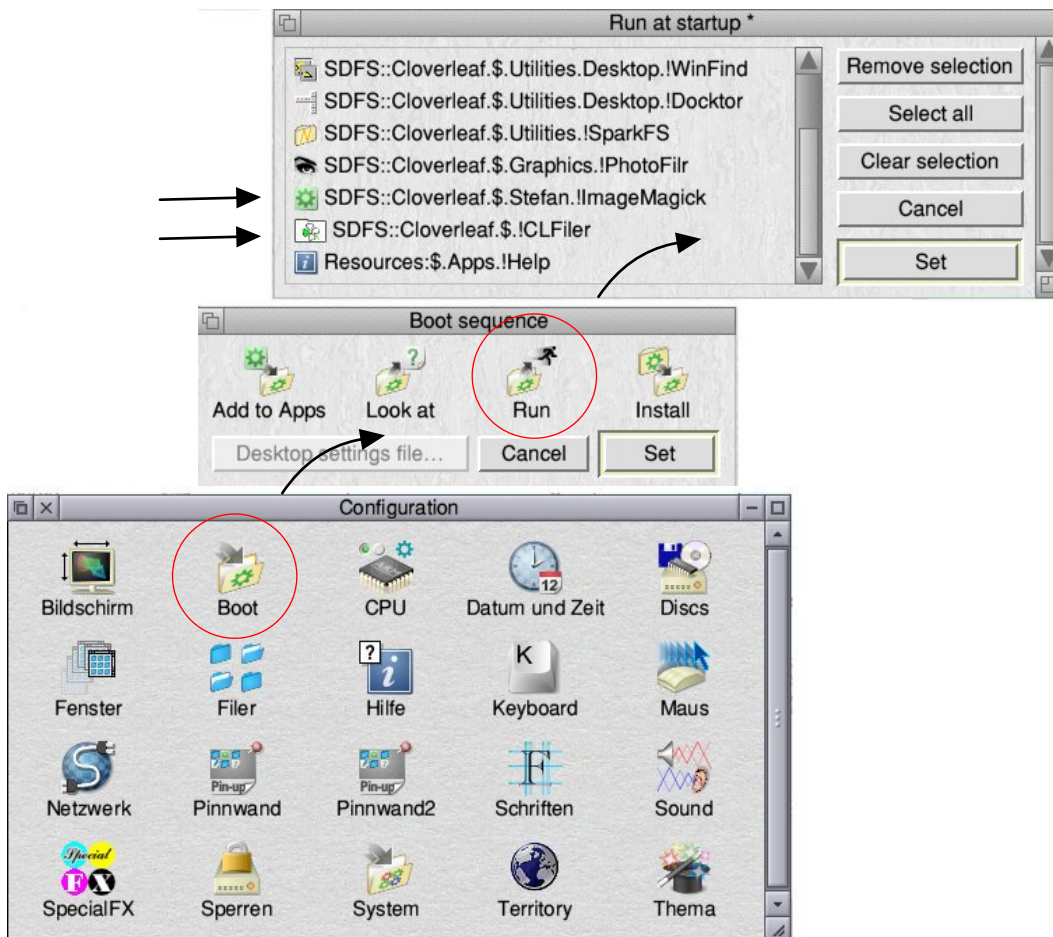
It is advisable to add !CLfiler to the "Run at startup" list to have it available all the time.

Auto-run !CLFile

If you want that !CLFile is available directly on the start-up of RISC OS :

1. Copy !CLFile where you want to save it on your hard disc
2. Drag the !CLFile onto the Run icon on the Boot sequence window.

The same you need to do with !ImageMagick and !FFmpeg if you want to see all available image formats as thumbnails and display them in CLFile image viewer..



Install !ImageMagick

!CLFile uses the open-source software ImageMagick www.imagemagick.org to load, save and display additional image file formats. You find the RISC OS version of ImageMagick at the following link:

Download Software Floating Point version for old Acorn Hardware and RISC OS Emulators (RPCemu & VirtualRPC)
https://www.riscos.info/packages/arm/Graphics/imagemagick_6.9.12-0-1_arm.zip

Download Hardware Floating Point version for Raspberry Pi and RK3399 hardware (PineBook Pro)
https://www.riscos.info/packages/arm/Graphics/imagemagick_6.9.12-19-1_vfp.zip

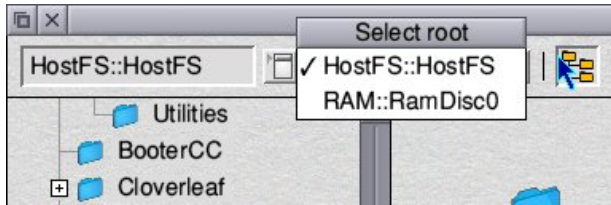
Install !FFmpeg

FFmpeg www.ffmpeg.org is needed to display thumbnails for videos.

Download FFmpeg from Chris Gransden website.
<https://www.riscosports.co.uk/eabi/>

Drive selection

You can select the drive from the task-bar menu or on left top of the window. Click on the drop-down icon to see the available drives list.



Add undetected filesystems (FS)

You may add manually some not detected filesystems (FS) or root directories in the **"!Boot.Choices.CLFile.predefined-roots"** text file. Any entries in that file will be added to the drive selector list (if actually present) .

This is a workaround for not automatically detected file systems.

The syntax for text file "predefined-roots" is simple. Write every root path, like you see it in the legacy RISC OS IFile, in a new line, like this:

```
Fat32fs::SSD_FAT
NFS::Ti_FAT
Lanman98::Ti_FAT
```

Refresh (F11)

Refresh will check all connected drives and add or remove drives if disconnected. It also forces an update of the current selected folder.

Treeview

One of the main advantages of !CLFile over the legacy RISC OS filer is the tree view of the drive folder structure.

With the tree view you can navigate faster through your drive's content and you have a better overview of the available folders.

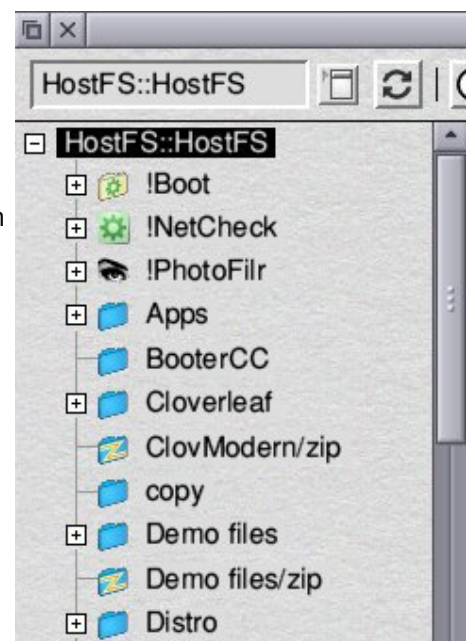
When you select a folder it is automatically opened and the content is shown in the folder view on the right side of the tree.

If there are subfolders then a "+" is shown and it will show the subfolder content when you click on the "+" or the folder name.

As standard setting only folders are shown.

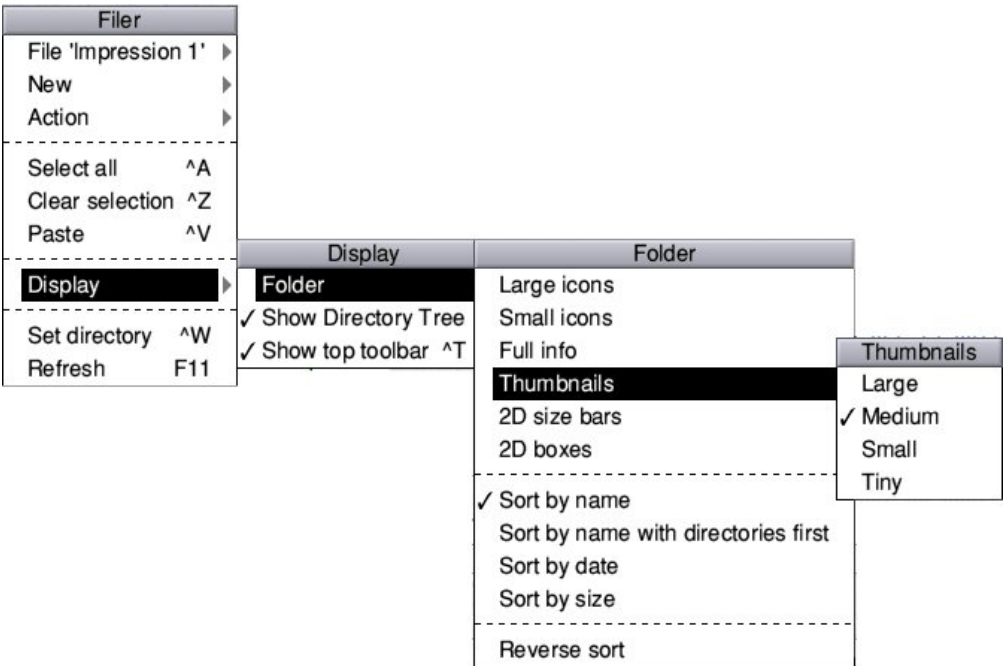
Optionally you can add in "Choices":

- (!) Pling folders = RISC OS applications
- FS images supported by !SparkFS like ZIP files.



Folder display types

You can choose between different display types to show the folder content.
The type you can select in the top bar or the program menu under “Display”.



Large

This is similar to the RISC OS filer “Large” but it supports long file names.

Small

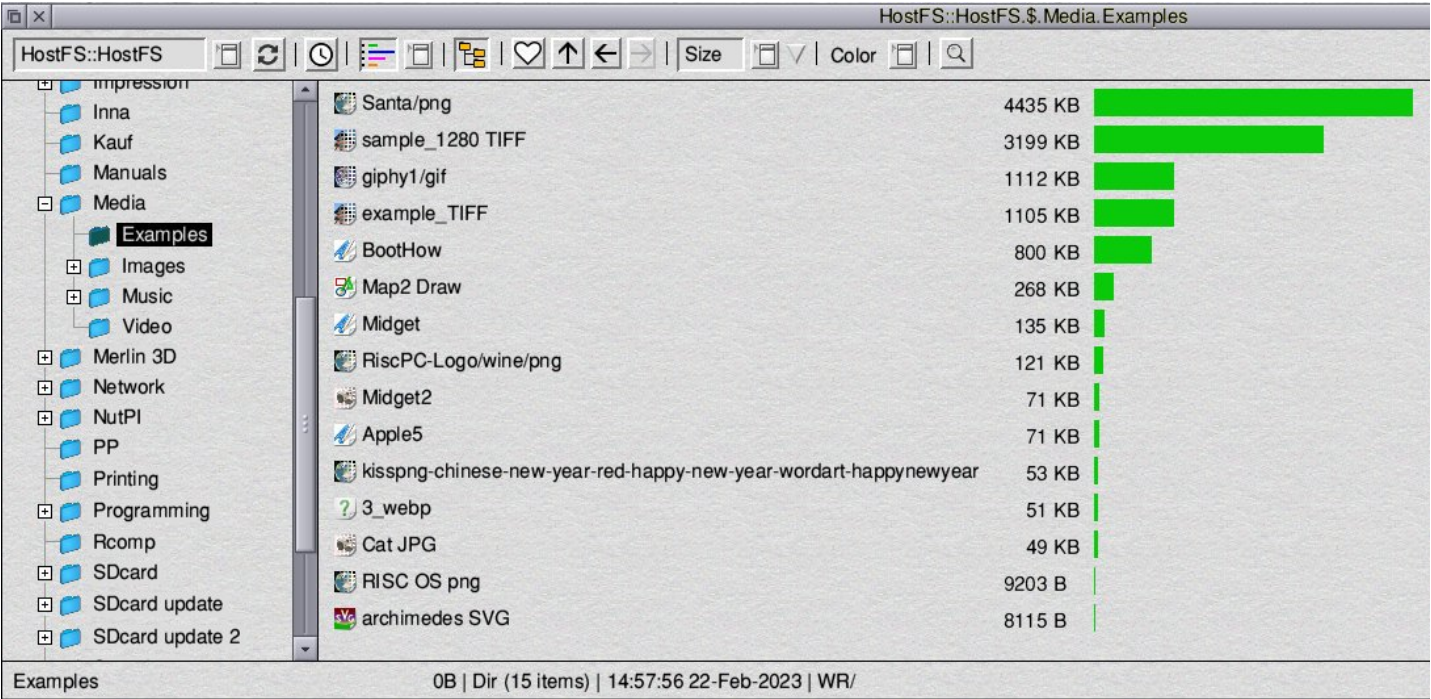
This is similar to the RISC OS filer “Small” but it supports long file names.

Full info

This is similar to the RISC OS filer “Full info” but it supports long file names.

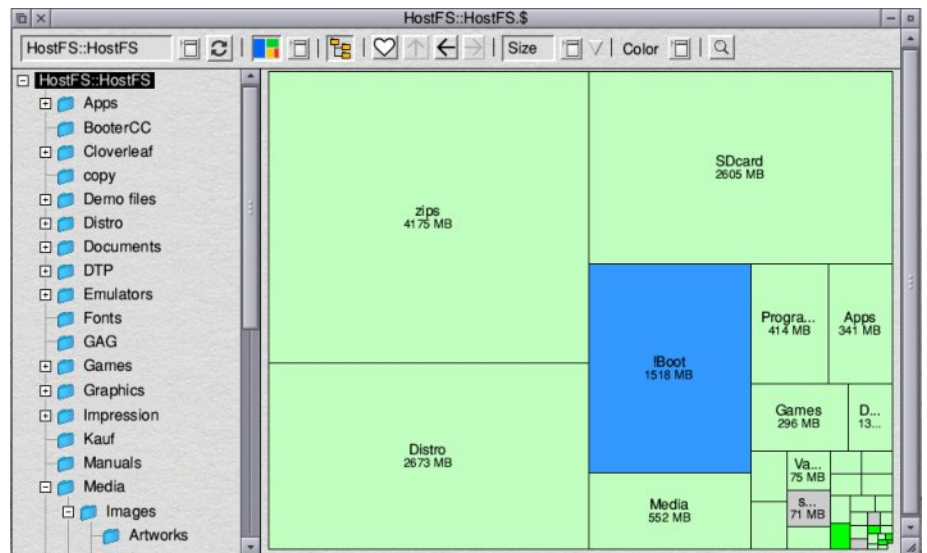
2D bars

This shows the size of the file or size of directories as bars.
Additionally the sizes are shown as values and the file names support long names.
If you open the folder first time it can take some time to update all folder information.



2D boxes (Maptree)

This shows the size of the files or folders as boxes. This folder display makes it easier to determine where the largest files are located or where there are a lot of small files on your drive .



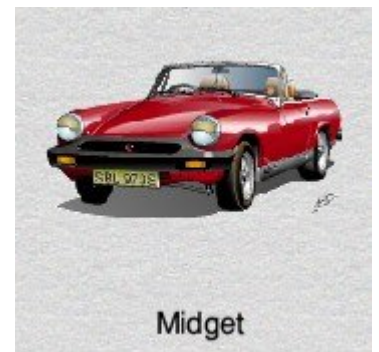
Thumbnails Large

It shows the thumbnails in size of 180 x 180 pixels. If no images exists or smaller images the display is automatically downgraded to Medium or Small thumbnail display mode. As Standard the RISC OS image types Sprites, JPEG, GIF, PNG, Draw and Artworks are supported. For bigger sized images a thumbnail is stored in !Boot.choices.CLFileer.thumbnails. For these thumbnails JPEG and PNG formats are used. PNG is used when the image has transparency.

If you want additional image formats like WebP, SVG, RAW etc. you need to install !ImageMagick in your RISC OS and run it before start !CLFileer.

If you want to see thumbnails of movies you need to install !FFmpeg.

Please check chapter "Installation" for this.



Thumbnails Medium

This shows the thumbnails in size of 90 x 90 pixels. If no images exists or smaller images the display is automatically downgraded to Small thumbnail display mode.

If the horizontal box size is forced to be bigger width because of file names the image width is increased also to a maximum of 180 pixels. This thumbnail example shows the effect as normally the car should be displayed with a width of 90 pixels but as the boxes for each file have a bigger width the thumbnail can use a bigger horizontal area.



Thumbnails Small

This is same display as RISC OS filer "Large" and shows the thumbnails in size of 45 x 45 pixels.



Thumbnails Tiny

This is same display as RISC OS filer "Small" and shows the thumbnails in size 22 x 22 pixels

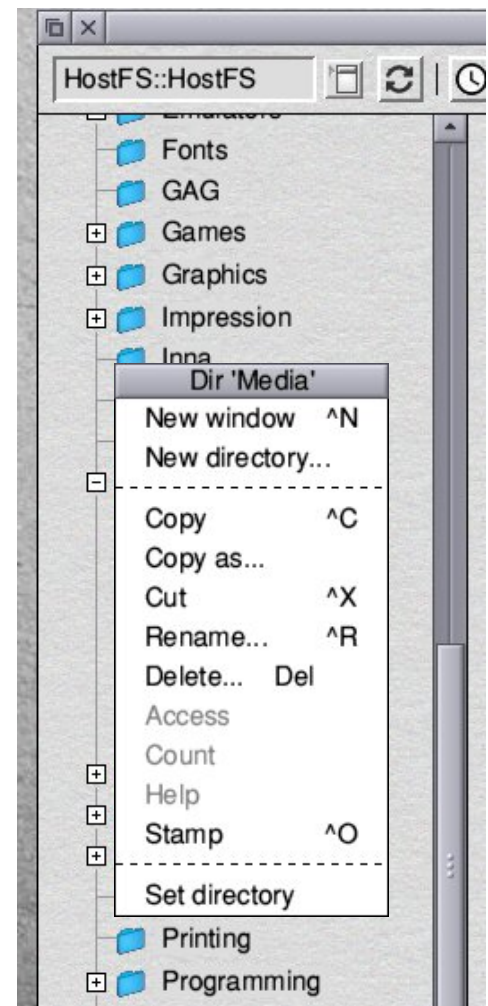


Jump to file name

If you open a folder with many files you have the option to find the desired file by typing the first letter of the file and the display will scroll down to the first file that matches that letter. Successive pressing the same letter will jump to the next occurrence of the same letter. If you are searching for a file name that could be located in multiple folders then use the search function instead.

Tree view menu

The tree view has it's own menu.



Infobar

In the infobar on the bottom of the window you can see additional information of selected files or the free space of your drive when you select the root folder in the tree view.

Drive info

Total:475.7GB | Free:140.8GB

File info

Cloverlead RISC OS Kickstarter crowdfunding/.jpg 87.1KB | JPEG | 11:31:45 09-Oct-2020 | WR/

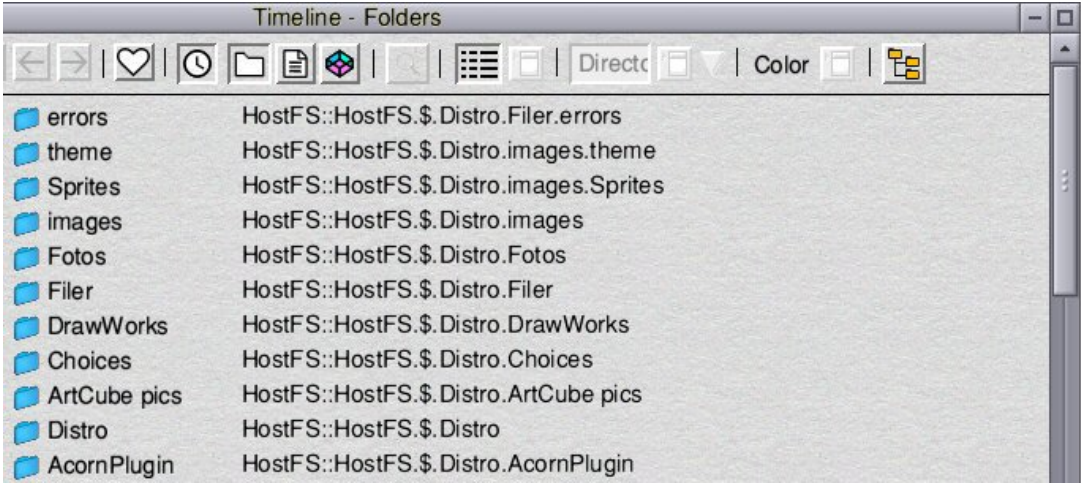
Timeline function

The timeline function shows you the history of used files, folders and programs. To deactivate the timeline you click **a second time** on the timeline icon or on the timeline type icons (Folders, files or applications).

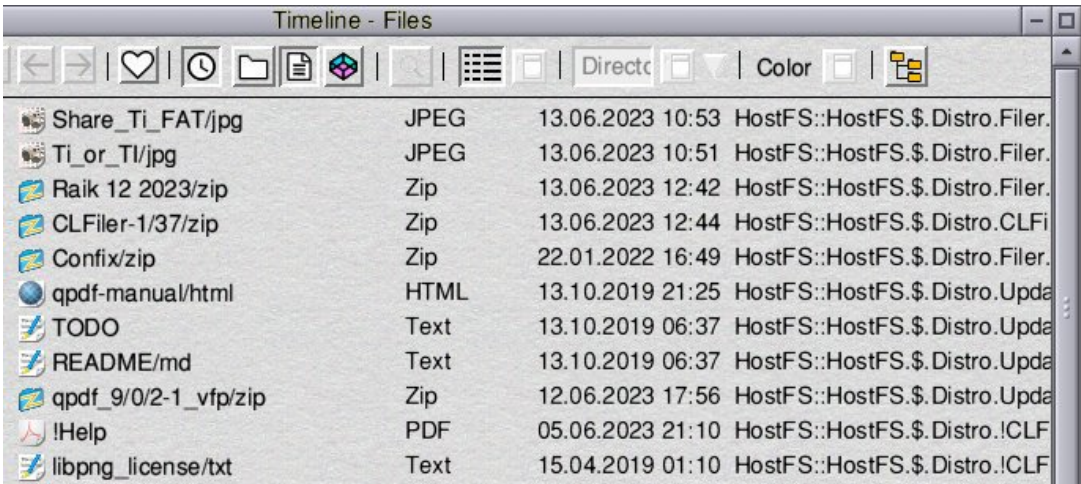


Folders Files Applications

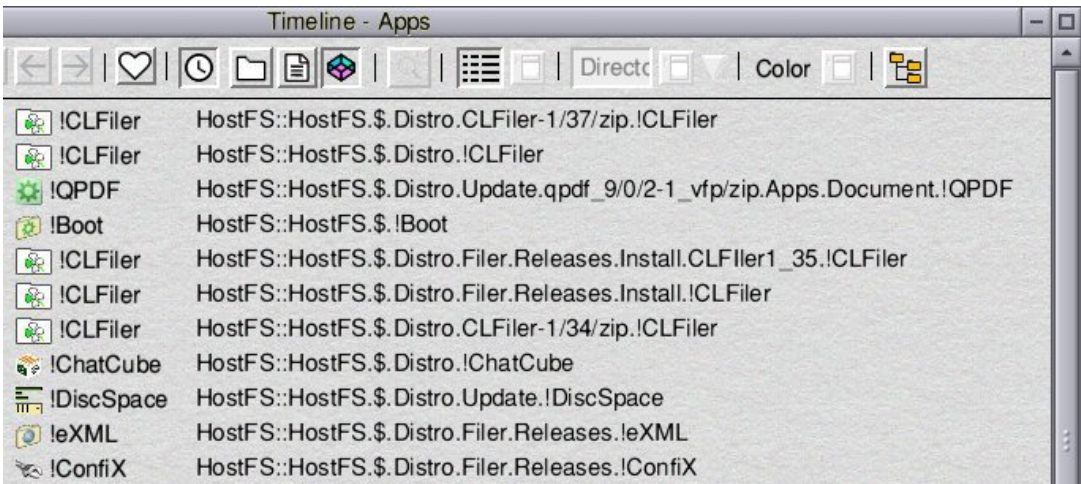
Folders



Files

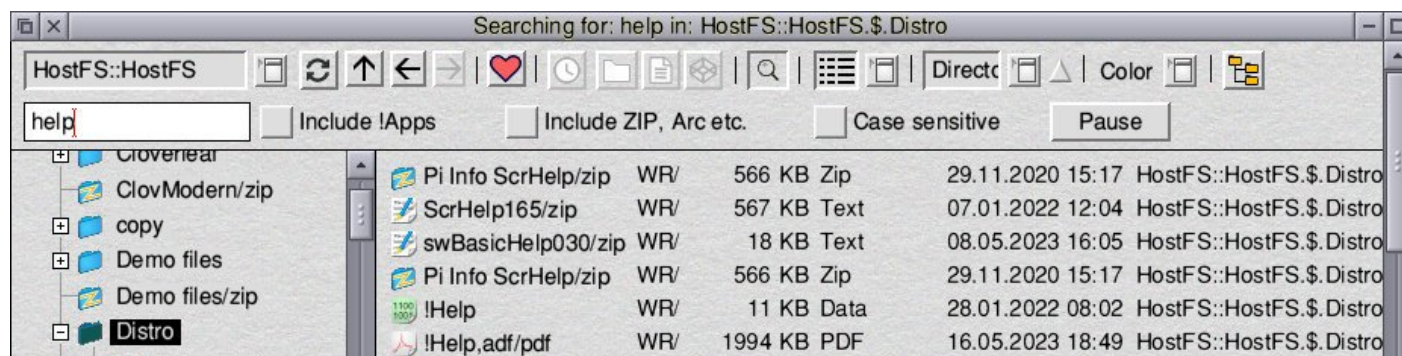


Programs



Search

With the search function you can find any file name on your storage devices.
It starts from the selected folder and includes all subdirectories.



Options

Case-sensitive

The standard setting is *case-insensitive* search so if you need *case-sensitive* search you need to activate the radio button for case-sensitivity.

Include FS image files

If you want to include into the search also ZIP files or other compressed files that are supported by !SparkFS then you need to activate "Include ZIP, Arc etc."

Include !Apps

Also you can activate that the search includes RISC OS application directories so-called "Pling folders".
If you activate this option and select the root folder of the boot drive it will also search the system folder !Boot.

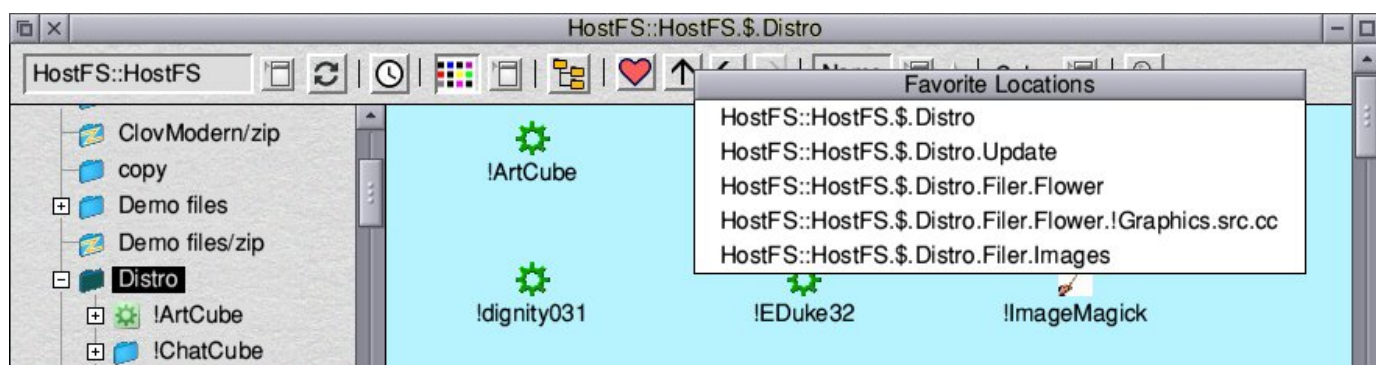
Favourites

The *favourites* function enables you to get to your favourite folders in the fastest way.

To define your *favourites* you select the folder in the tree view and then open the program menu and use the "Action" menu to add the folder to *favourites*.

If the folder is already in favourites then you can remove it by the "Action" menu.

A favourite folder is marked by the heart icon with red filling. If the folder is not a favourite it has a grey filling.

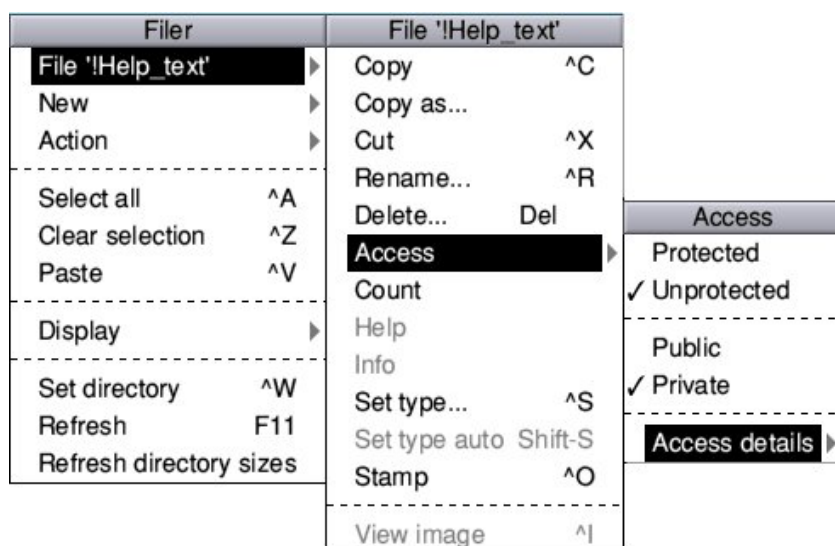


Selection menu

The selection menu offers the same function than the legacy RISC OS filer but there are some improvements.

Key shortcuts

One of the main differences is that it offers the key shortcuts that are known from other OSs Del, Ctrl+C, +X, +A, +Z and +V. But this is also configurable in the Choices in the task bar menu of !CLFiler. Also most popular functions are linked to a key shortcut.

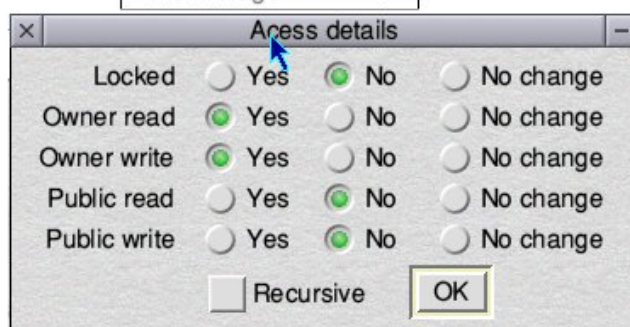


Copy as

With this function you can make a copy of the selected file with another name. Currently it works only in the same folder.

Set type (CTRL + S)

This will show also a list of file type choices.



Auto set type (SHIFT + S)

This function allows to set the file type automatically by file name extensions.

Windows / Linux file extensions

For example: .jpg, .txt, .png, .doc

On native RISC OS systems these file types are handled by the Mimemap. But in emulator like RPCemu this is not implemented. So if you copy Windows files into your RISC OS hostFS then you always have to set the file type manually. As this can get quiet annoying we implemented an automatic file type setting that will set all selected files by the file extension to the according RISC OS file type. This is configured in the **!CLFiler.autofiletypes** text file.

RISC OS file name extensions

The RISC OS file type can be 'lost' when RISC OS files have not been copied by the RISC OS filer. For example when you ZIP RISC OS files by Windows and not RISC OS !SparkFS. You can see them when you open the ZIP folder the extensions like ".ffe" or ".ffa" etc.

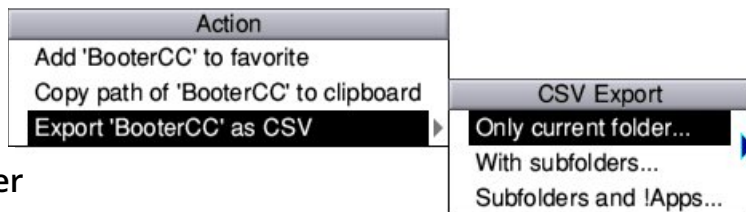
So in that case we just take the extension and set it correctly and remove the visible part.

View image (CTRL + i)

This menu entry is activated if the file is an image. It will open the file by the !CLFiler image viewer. You can do the same by **double adjust click** on the file. See more details about the image viewer in the *Image viewer* info pages.

Action menu

In the Action menu you find special functions.



Set favourite folder / Remove favourite folder

This will add / remove the current selected folder to the favourite folders list.

Copy file path to clipboard

This will copy the path of the current selected folder to the clipboard.

This can be helpful for the command line or for programming.

Export folder to CSV

This function will export the current selected folder content and all it's sub-folders as CSV file.

The data includes is:

- file name / folder name
- folder
- file type
- file size
- file date

The image shows a screenshot of a spreadsheet application window titled 'Fireworkz: Sheet1 *'. The spreadsheet contains data exported from a folder. The first row (row 2) has headers: 'Name', 'Folder', 'Type', 'Size', and 'Date'. The data rows (rows 3-12) list various files and folders. The 'Folder' column contains values like 'Disclaimer/txt', 'FzExamples_20200611/zip', 'Manuals', 'Beginners Guide Wimp', '!Test', '!Run', '!Sprites', '!Sprites22', '!Sprites23', and 'Templates'. The 'Type' column contains values like 'Text', 'Directory', 'Application', 'Obey', 'Sprite', and 'Template'. The 'Size' column contains values like '628', '127', '996', '1,892', '788', and '729'. The 'Date' column contains timestamps like '17.07.2020 21:08:55' and '13.12.2021 02:21:29'.

	a	b	c	d	e
1	Export of SDFS::1.\$Documents				
2	Name	Folder	Type	Size	Date
3	Disclaimer/txt		Text	628	17.07.2020 21:08:55
4	FzExamples_20200611/zip		Directory		28.07.2020 22:44:26
5	Manuals		Directory		13.12.2021 02:21:29
6	Beginners Guide Wimp	Manuals	Directory		13.12.2021 02:21:09
7	!Test	Manuals.Beginner	Application		13.12.2021 02:21:10
8	!Run	Manuals.Beginner	Obey	127	17.07.2020 21:08:55
9	!Sprites	Manuals.Beginner	Sprite	996	17.07.2020 21:08:55
10	!Sprites22	Manuals.Beginner	Sprite	1,892	17.07.2020 21:08:55
11	!Sprites23	Manuals.Beginner	Sprite	788	17.07.2020 21:08:56
12	Templates	Manuals.Beginner	Template	729	17.07.2020 21:08:56

Background color for folder

You can set the individual color for folders or drives. All sub-folders will have same background color.

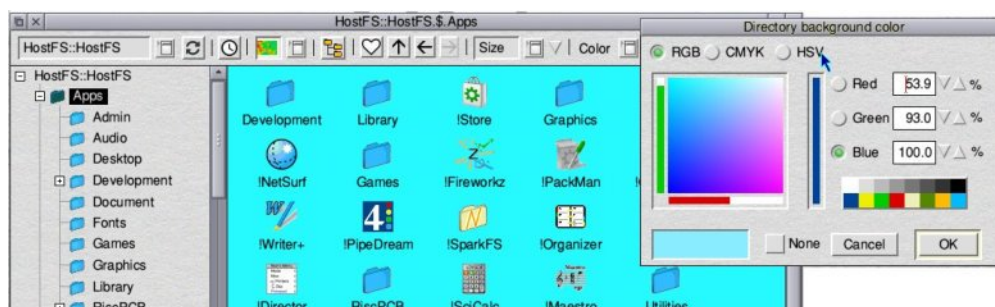


Image viewer

In !CLFile an image viewer is integrated. The main reason is to enable the RISC OS user also to view image file types that are not supported by RISC OS at this moment. But also for native RISC OS file types (Sprite, Draw or Artworks) it can be useful if you want to convert them to other image formats.


To load an image with the CLFile image viewer you need to double-right click on the file. If you double-left click then the assigned editing program will be loaded instead. In case there is no editing program assigned for that file type then also the !CLFile image viewer will be started with the selected file.

Navigate

Once you have opened an image in the folder by the CLFile image viewer you can display other images by simply pressing ⬅ and ➡ on the keyboard.

Zoom 🔍 and pan 🖱

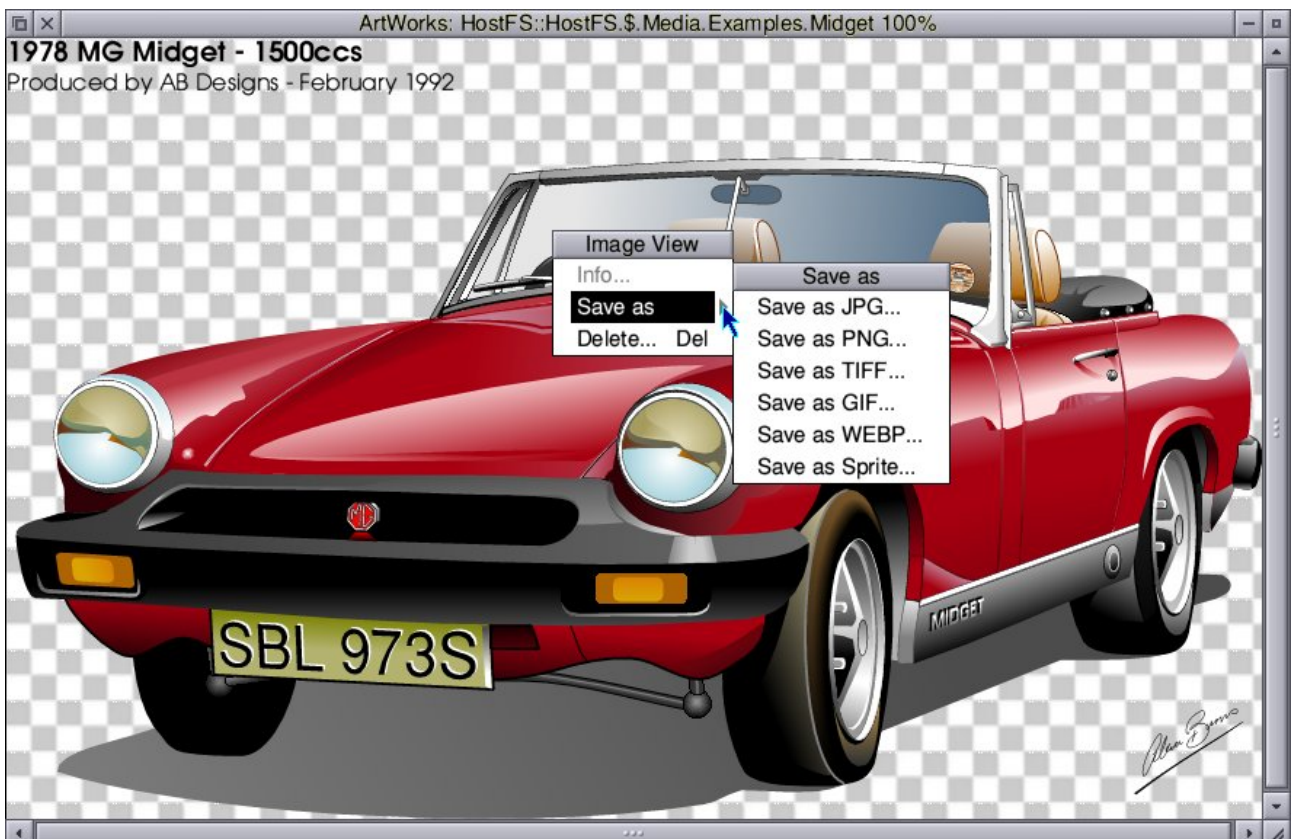
When the image is displayed first then it is scaled to the maximum screen width/height with respecting the aspect ratio of the image. If the image is smaller then it is displayed at 100% scale.

You can zoom in and out by the  CTRL + mouse wheel or by the keyboard keys ⏏/⏏.

If the image is zoomed in then you can pan the content of the window by a mouse drag.

Convert the image

If you want to scale the image up or down (save at another resolution) or save the image as different bitmap format then you can do that with the CLFile image viewer. When you open the window menu in the image viewer you will see the different option / image file formats to save:



“Save as” dialog

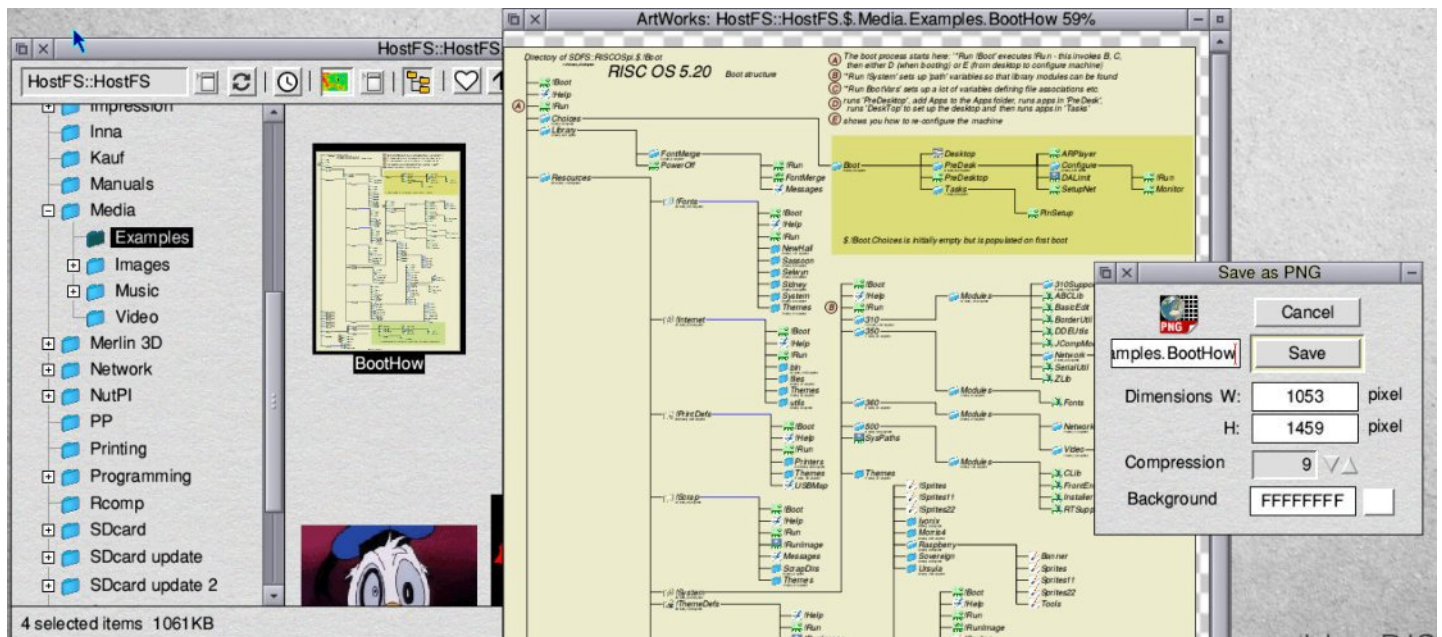
The different bitmap formats offer different parameters like bitmap size, compression quality and background color for transparent images.

Scale image

The presets for the dimension of the image, width and height, are the original bitmap sizes.

Only for vector files that values are chosen by the program if not set by the file definition.

If you choose any other dimension for width or height it will automatically calculate the corresponding size by the aspect ratio of the image.



For vector files (Draw, Artworks, and SVG) you can choose any dimension and it will generate the best quality at any resolution.

Transparent color selector (Background color)

For all image file types also the transparent color selector is offered. This seems to be odd for file types that don't support transparency but it is needed to decide which color will be used instead of the transparent color.

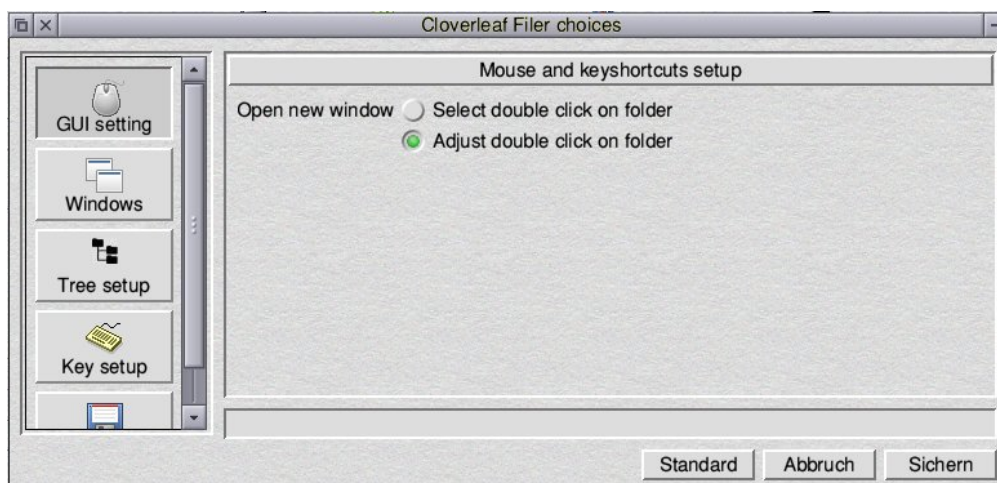
Also it might be that the user needs a solid color instead of transparency.

Configuration

Configure !CLFiler you open the !CLFiler menu on the taskbar icon and choose "Choices".

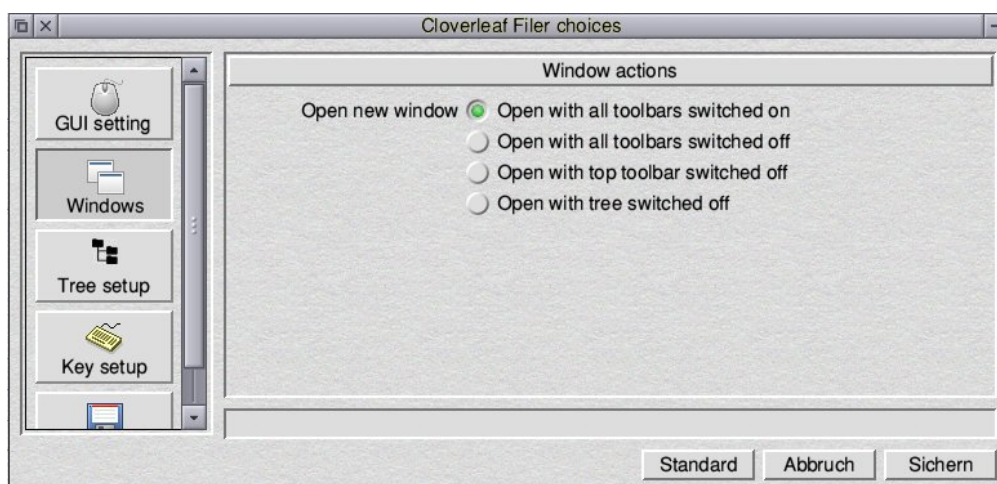
GUI settings

Here you can decide when you want to open an additional window of !CLFiler.



Window setting

Here you can decide what toolbars show be shown when opening the !CLFiler window.

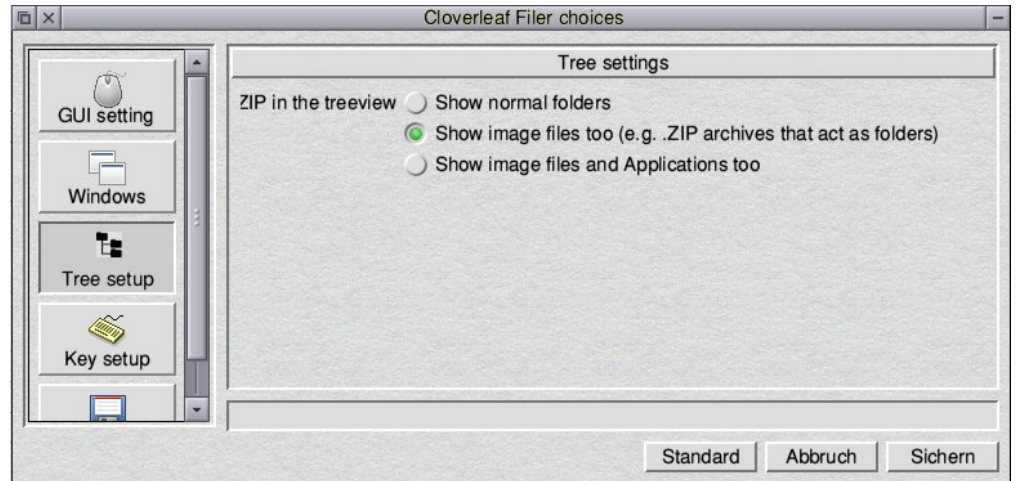


Tree view setup

Here you can choose what items you want to see in the treeview.

Options are:

- Only folders without RISC OS apps (! Pling folders)
- Folders and FS files like SparkFS supported files (Zip, Arc etc.)
- Show all (Folders, FS files and RISC OS apps)



Key setup

At the key set-up you can choose between classic RISC OS key short-cuts and common key short-cuts that are used by other OS like Windows, MacOS or Linux.

RISC OS Classic

Strg + K : Delete selected item

RISC OS Modern

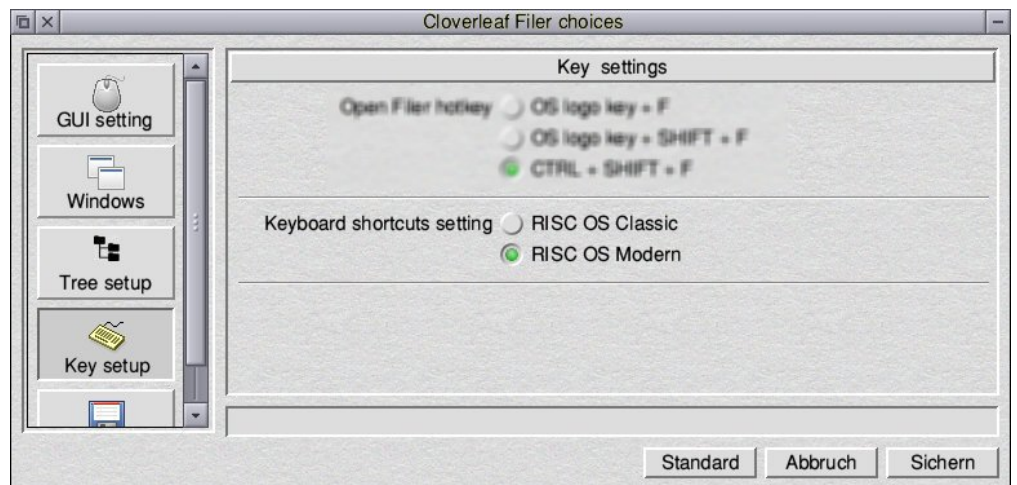
Delete key : Delete selected item

Strg + C: Copy

Strg + X: Cut

Strg + A: Select all

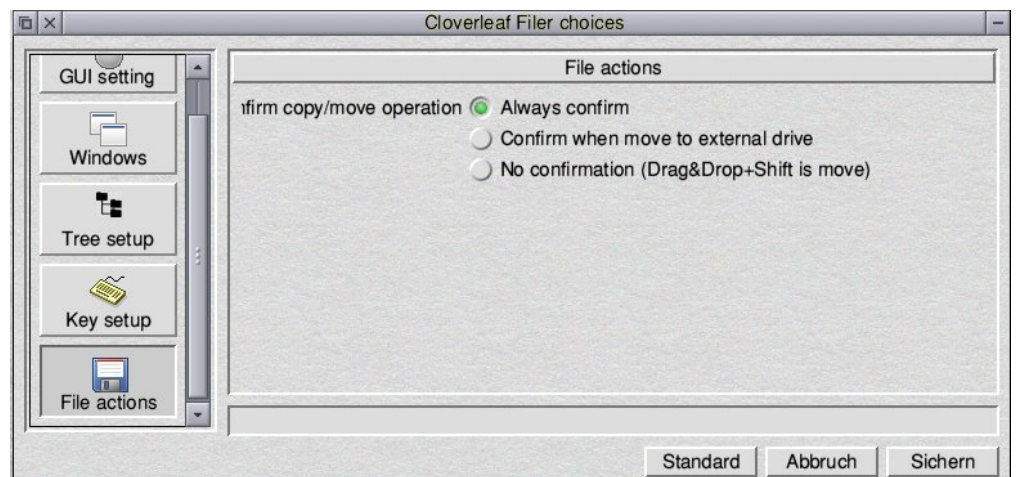
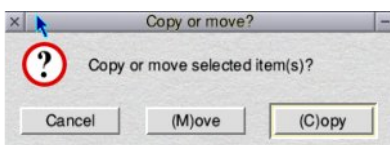
Strg + V: Paste



File actions

Select confirmation settings for copying files.

Standard is always confirm if copy or move the file.



Hidden features

!CLFiler startup options in !Run file

You can add some parameters to the command line to run the !CLFiler application inside the !CLFiler.!run.

Example: <CLFiler\$Dir>.!RunImage 1>

The parameter "1" at the end is needed for the error log output.

- open

to open the window at start-up

If you prefer that !CLFiler opens a window directly on start then you can alter the !CLFiler.!Run file.

Example: <CLFiler\$Dir>.!RunImage -open 1>

- dir <dir>

to initially open specified directory

Example: <CLFiler\$Dir>.!RunImage -open -dir HostFS::HostFS.\$ 1>

-toolbars *x*

to switch on/off toolbars.

Where x is:

- 3 - show all: toolbar, infobar and treeview
- 2 - show toolbar and infobar
- 1 - show the toolbar
- 0 - all toolbars off

Example: <CLFiler\$Dir>.!RunImage -toolbar 2 1>

-debug (Report bugs)

If !CLFiler crashes or displays errors then we need you to send us the log files to investigate.

Send two files located in !Boot.Choices.CLFiler as ZIP to our email info@riscoscloverleaf.com

The files are "log" and "error-log".

As standard the feature is switched off now to not slow down your RISC OS-

To turn on the debug logging in the !Run replace:

<CLFiler\$Dir>.!RunImage 1><CLFiler\$ChoicesDir>.std-log 2><CLFiler\$ChoicesDir>.error-log

by

<CLFiler\$Dir>.!RunImage -debug 1><CLFiler\$ChoicesDir>.std-log 2><CLFiler\$ChoicesDir>.error-log

The !Run file has comments that describe supported options including the -debug option. So you can uncomment the option and save the !Run file and restart the program to activate the debug logging.

Note: In case of problems please turn on -debug first then try to reproduce the problem and send the logs to info@riscoscloverleaf.com. Without debug logging it is hard to investigate what happens.

Jump to file name in the folder

If your folder incorporates more files than it can show in the window then this feature is handy to jump faster to the desired file. You can jump to the first occurrence of a file name by typing the first letter. Successive pressing of the same letter will jump to the next occurrence of the same letter.

Drag folder to !CLFiler taskbar icon

When you drag a folder from the standard RISC OS filer onto the !CLFiler icon on the taskbar a new window is opened with the folder content.

Add undetected filesystems (FS)

You may add manually some not detected filesystems (FS) or root directories in the

"!Boot.Choices.CLFiler.predefined-roots" text file. Any entries in that file will be added to the drive selector list (if actually present) .

This is a workaround for not automatically detected file systems.

The syntax for text file "predefined-roots" is simple. Write every root path, like you see it in the legacy RISC OS IFiler, in a new line, like this:

```
Fat32fs::SSD_FAT
NFS::Ti_FAT
Lanman98::Ti_FAT
Share::LinuxdriveA
IXFS:$.Harddsic4
```

Key short-cuts

Navigation

- Up/Down - Navigate selection up and down in the current directory
- Left/Right - Navigate selection left and right in the current directory
- ENTER - Run selected file or open directory
- SPACE - Selects additional files after the current selected file
- Shift + Adjust - Selects all files between the previous selected file and clicked-on file
- Ctrl-Up - Go up level (to parent directory)
- Ctrl-Left - Go backwards (to previous directory)
- Ctrl-Right - Go forward (reverse go backward)
- Ctrl-H - Open parent directory

File operations

- Del - Delete selected file(s)
- Ctrl-A - Select all in the current directory
- Ctrl-Z - Clear selection (deselect all)
- Ctrl-C - "Copy" file(s) to internal clipboard to "paste" into other directory
- Shift-C - "Copy As" copy first selected file with new name in the same directory
- Ctrl-X - "Cut" file(s) to internal clipboard to "paste" into other directory
- Ctrl-V - "Paste" (copy) the file(s) that was "Copied" or "Cut" before.
- Ctrl-R - Rename file
- Ctrl-S - Set file type
- Shift-S - Auto sets the file type by the file extension used by Windows (source: !CLFiler.autofiletypes)
- Ctrl-O - Stamp files (set current time stamp as edit date)

Directories

- F11 - Refresh current directory
- Ctrl-D - Create new directory
- Ctrl-N - Open new directory window
- Ctrl-W - Set current directory

Functions

- Ctrl-F - Toggle "Search" mode.
- F1 - Display help

Display and toolbars

- Ctrl-T - Toggle through different display combinations of the top bar, tree view and infobar
- Shift-T - Toggle left side tree view
- F2 - Set "Large icons" view mode
- F3 - Set "Small icons" view mode
- F4 - Set "Full info" view mode
- F5 - Large thumbnails 180 x 180 pixels

Image viewer

- '+' - Zoom into the image
- '-' - Zoom out of the image
- CTRL + Mouse wheel - Zoom in and out of the image
- Mouse drag - Pan image (only available when image cannot be shown fully inside of the window)

Supported File Image systems

CLFiler can detect following filesystems and connected drives at start:

ADFS, CDFS, DOSFS, FAT32FS, IDEFS, RAM, SATAFS, SCSIIFS, SDFS, ShareFS

If your filesystem or drive is not detected then look at "Hidden features" page in this manual.

Credits

For support and testing

Raik Fischer

Ashoke Patel

Mike Hobbs

Doug Webb

Bernard Boase

Herbert zur Nedden

Andrew Rawnsley

Third party libraries and modules (open source or freeware)

ConfiX 1.55 by Paul Reuvers, settings tool

www.xat.nl

TBX library by Alan Buckley

<https://sites.google.com/site/alansriscosstuff/tbx>

Treeview by Rik Griffin

www.github.com/rikgriffin/TreeView

Imagemagicks, editing and manipulating digital images

www.imagemagick.org

FFMpeg, record, convert and stream audio and video

www.ffmpeg.org

Libjpeg by Thomas G. Lane

Libpng by multiple authors

OSLib by Jonathan Coxhead

Inipp by Matthias C.M. Troffaes

Rufl by James Bursa

License files are supplied inside the !CLFiler.license folder.