

**111b27b8-0**

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**COLLABORATORS**

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<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>	<i>SIGNATURE</i>
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# Chapter 1

## 111b27b8-0

### 1.1 Table of Contents

LhA-GUI, Version 1.13  
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 Fourth Dimension Software  
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#### Table Of Contents

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### 1.2 General Information

This package attempts to provide a useful and usable front-end for Stephan~Boberg's LhA~software package, as well as the new LZX archive compression scheme. It is not meant to provide the transparent use~of LhA archives as~volumes or directories on the Amiga (ObjectArchive will do~that, see the AmiNET index).

Instead, LhA-GUI's purpose is to provide a dedicated application approach to~LhA archive~extraction handling. It has loads of

~features~  
 , and has  
 many~

~future~

plans.

Please read this documentation fully, and please report any bugs to the~author:

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LhA-GUI is shareware. Freely distributable via CD, disk, FTP, or any other form. No profit may be made with the distribution of this software, and I must be contacted first before it is included on any cover-disk, or before being used as a front-end for archives on any media-type.

LhA-GUI, ©1994-1996 by Brian D. King, Fourth Dimension Software.

### 1.3 Requirements

- Amiga OS, 2.1 or higher.
- PIPE: mounted (via DosDrivers or mount-list).
- LhA/LZX executable in your path or c: directory. Registered or unregistered should be fine.

### 1.4 Capabilities/Features

- Amiga User Interface Style Guide compliant.
- Drag and drop support of both source archives and destination paths.
- Iconification onto the WorkBench.
- Support of notification. LhA-GUI automagically adjusts itself if you change a WorkBench setting (like font or resolution).
- Workbench AppIcon which supports auto-extraction of any archive to the default extraction directory.
- File hierarchy display of a given .lxx archive, with the ability to select specific files for extraction, along with easy control of numerous Lxx options.
- NTSC/PAL hi-res support (window will fit on 640x200 screen).
- Font-adaptive, size-adaptive without use of an external library!
- MultiView (or other viewer) support, called by double-clicking on archive-entry.
- Under 55K in size.
- Easy to use.

### 1.5 Installation

To install LhA-GUI, you must do the following:

- Extract the archive, which you've probably done if you're reading this.
  - Choose whether you want MagicWB style icons, or normal 4-colour icons.
-

If you want MagicWB icons, delete the 4-colour icons directory.  
If you want the 4-colour icons, copy them over the existing MagicWB icons.

- Place the LhA-GUI program somewhere.
- Make sure PIPE: is being mounted.
- Make sure you have LHA/LZX in your path somewhere.

NOTE: An installation script for Commodore's Installer software will be forthcoming. If you have problems with the current installation, feel free to e-mail me, see  
~general~  
information for address.

## 1.6 Instructions

Select which area of the interface you require help with:

1. Main~LhA-GUI~interface  
2. Preferences~~interface

## 1.7 Future Enhancements

These modifications/enhancements will be completed soon (in this order)

- Online help for OS 2.x users.
- Better progress indicators.
- Commodore Installer installation script.
- Keyboard control of ListView (Up/Dn, space-bar to toggle, ENTER to go into a directory)
- Drag-select in ListView.
- Preferences settings for CON: output window.
- Preferences settings for LhA-GUI window size/position.
- ToolTypes for program, along with more CLI-options.
- Locale compatible.
- <Insert your suggestions here>

## 1.8 History

- Beta Release 1.00, December 18, 1994.
  - Beta Release 1.01, December 24, 1994.
    - . Fixed path problem with destination parameter.
  - Beta Release 1.02, December 30, 1994.
    - . Fixed problem with iconification. <Barry McConnell>
    - . Fixed problem with double-click actions. <Barry McConnell>
    - . Fixed problem with spaces in archive name or path. <Barry McConnell>
    - . Cleaned up error message text strings. <Barry McConnell>
  - Beta Release 1.03, January 12, 1995.
-

- . Fixed problem with double Enforcer-hit during extraction. <Barry McConnell>
  - . Added LINE debug information for compatibility with FindHit, an Enforcer tool. Now, you too can help find problems with LhA-GUI!
- Beta Release 1.04, January 13, 1995.
- . Fixed problem with NULL-fields as first element in an archive directory listing.
  - . Recompiled all modules with LINE debug (instead of some with LINE and some with FULL), resulting in a size reduction of 20K.
  - . Removed Xen font from beta-distribution archive, reduces archive size.
  - . Fixed non-functioning Delete and Test gadgets by disabling them!
- Beta Release 1.05, January 17, 1995.
- . Fixed problem with empty archive and destination string gadgets.
  - . Fixed problem with list-gadget not being cleared properly.
  - . Rearranged some code, slightly smaller/faster.
  - . Started phase-out of GadToolsBox code. Working towards font and screen adaptivity. Internally, ListView can be any vertical size.
- Beta Release 1.06, January 23, 1995. (Major revisions)
- . Fixed problem with Select-All functionality. If you did a Select-All, followed by an Extract operation, only the root-level of the archive was extracted. <beta-tester>
  - . Fixed keyboard-shortcuts. Had a conflict, and now allows the e/E key to select "Extract".
  - . Fixed bug in archive parsing, when last part of archive-list was a comment.
  - . Added standard four-colour icons to archive. <beta-tester>
  - . Added font-sensitivity to list-gadget. Uses ScreenFont. <Barry McConnell>
  - . Added ClipRect to list-gadget, prevents overflowing text.
  - . Added coloured text for directories.
  - . Added MultiView support for archive entries. <Barry McConnell, Kerry Paulson>
  - . Added command-line archive specification for CLI-launching. <Kerry Paulson>
  - . Added Test gadget code, allows archive testing.
  - . Added ability to drop an archive on the iconified program. <Barry McConnell>
  - . Added self-detaching code for CLI-launches. Don't need to run me!
- Beta Release 1.07, January 23, 1995. (Major bug-fix)
- . Fixed problem with large amount of files in an archive. This would flood the PIPE-line with file-names, before a parsing function could be called. Fixed this by making "lha" System() call asynchronous, thus allowing the parsing function to begin emptying the PIPE right away. <Dean Smith>
- Beta Release 1.08, February 9, 1995. (Major bug-fix)
- . Fixed problem with selecting large amount of files in archive. This would fill an internal string buffer. The string buffer is now dynamic, to allow for any number of item selections. <Kerry Paulson>
  - . Fixed functionality with selecting a directory name, but not anything in it. The entire directory is now extracted.
  - . Fixed problem with selecting file-names at the root-level of the
-



- archive. Before, the entire archive would end up being extracted, rather than just the selected files.
  - . Added full font-sensitivity. <everyone>
  - . Added WorkBench argument support of archive specification. <Kerry Paulson>
  - . Added separate Preferences window. <Barry McConnell>
  - . Changed LhA-GUI.guide's default to be "AmigaGuide". <Dana Peters>
  - . Changed MultiView launch to be asynchronous (runs in background). <Barry McConnell>
  - . Removed LINE-debug code, so FindHit won't work. LhA-GUI is now 41K in size, and nobody was sending me Enforcer-hit reports.
- Beta Release 1.09, February 13, 1995.
    - . Fixed keyboard shortcuts in both windows.
    - . Fixed link with "boopsi.o", a left-over from GadToolsBox days. No longer need this. All GadToolsBox code removed, no external libraries needed for font-adaptivity.
    - . Forgot to include LaunchMultiView.script in distribution archive.
    - . Added resizableability to main interface.
- Beta Release 1.10, February 21, 1995.
    - . Fixed Topaz8 rendering bug. Now if LhA-GUI won't fit on your screen because of its font, LhA-GUI will default back to Topaz8 for its layout. <me>
    - . Fixed ASL requesters, now block input to parent window. <Barry McConnell>
    - . Fixed bug with filling background of window after resizing. Sometimes it would be rendered with the wrong pen. <Dana Peters>
    - . Fixed menu-rendering, now use NewLook menus. <Timothy Aston>
    - . Fixed iconification. Iconify now remembers last window size and position. <Barry McConnell, me>
    - . Fixed prefs window. Now opens relative to main window's top left position. <Barry McConnell>
    - . Fixed prefs destination directory functionality. Now, when you change your preferences of default destination directory and then select either 'Save' or 'Use', the destination directory gadget in the main window will be updated. <Barry McConnell>
    - . Changed ASL file-requester gadgets to scalable file-folder images. <me>
    - . Changed compiler options, reduction of 1K in size. (StringMerge, UtilLib). <me>
    - . Changed layout code, border-spacing now equal. <me>
    - . Added visual cue for keyboard short-cuts. Now when a boolean gadget is selected via its keyboard equivalent, the gadget is depressed and released. <Barry McConnell>

\*\*\*\*\*

- General Release 1.11, March 14, 1995.
  - . Eliminated ellipses (...) from various requesters. <Barry McConnell>
  - . Changed main window title to simply "LhA-GUI". <Barry McConnell>
  - . Fixed resizing refresh bugs. <Barry McConnell, me>
  - . Added notification support. If you change your WorkBench font, screen, or overscan settings, then LhA-GUI automatically iconifies itself. <me>
  - . Fixed requesters and parent window. Parent window is now blocked, complete with a busy-pointer. This happens for ALL requesters, not

- just ASL requesters. <Barry McConnell, me>
  - . Added small status-window for description of whats happening. <me>
- General Release 1.12, March 26, 1995.
- . Fixed Enforcer hits when resizing window and no archive selected. <me>
  - . Fixed MAJOR iconification bug. If you launched LhA-GUI from the CLI via a path (but not actually in the LhA-GUI directory), and then iconified, you got instant fireworks! KABOOM! This has now been fixed. <me>
  - . Fixed MAJOR extraction bug. Files selected in root-level were ignored. Also, if the \*only\* files selected were in the root-level, they would be ignored and the \*entire\* archive would be extracted. <me, others>
  - . Fixed notification bug when LhA-GUI was already iconified. <me>
  - . Fixed window-sizing/zooming being available when ASL requesters were open. <Barry McConnell>
  - . Fixed (???) glitch when selecting size gadget, but not actually changing size. Two problems here:
    1. Text in status display would be mangled. <Barry McConnell, me>
    2. Extra refreshing would occur. <Barry McConnell>
  - . Changed gadgets so that they are disabled when no archive present. <Barry McConnell>
  - . Changed notification so that LhA-GUI closes its window, and reopens 10 seconds later. It \*does not\* iconify during notification. It simply disappears and then reappears later. <me>
  - . Changed LhA-GUI.guide file, added two new sections (installation, instructions). <me>
  - . Changed compile method, uses pragmas now. Reduced code size by 3K.
  - . Added more status display messages (archive extraction, testing). <Barry McConnell>
  - . Added quick-help for various gadgets (OS 3.x only, for now). <me>
  - . Added online context-sensitive help (OS 3.x only, for now) via an AmigaGuide link to this file. <me>
- General Release 1.13, January 7, 1995.
- . Fixed problem with unflushed messages which occurred while LhA-GUI requesters were open on screen (ASL requesters, to be specific). <Barry McConnell>
  - . Fixed duplicate list entries. This happened if an archive was originally created under UNIX, and had a directory entry called "BLAH" and "blah". Since the Amiga doesn't care, I coalesce these entries now. <me>
  - . Fixed memory leak. About 3K in size. I've now tested thoroughly, and can't find anymore leaks. <me>
  - . Fixed OS 2.x crashing. I was using a V39 (OS 3.x or higher) library function, GetUniqueID(). <me>
  - . Removed PowerTools.lib requirement. <me>
  - . Changed LhA-GUI.guide file. <me>
  - . Added deletion support (buggy). <me>
  - . Added online context-sensitive help for menu-items, still OS 3.x only. <me>
  - . Added LZX support. Still preliminary, and not extensively tested, since I don't have many LZX archives currently. <me>
  - . Added ability to have an auto-extract icon present at all times. This AppIcon (LhA-GUI Extractor) will unarchive the complete contents of any archive dropped on it, to the specified default
-

extraction directory (set up in LhA-GUI preferences settings).  
<Barry McConnell>

## 1.9 Main LhA-GUI interface

```

                                Window Interface Functions
1.
    ~Choosing~an~archive~::~~
      2.
    ~Choosing~a~destination~
      3.
    ~Navigating~the~listing~
      4.
    ~Extracting~files~:::~
      5.
    ~Testing~the~archive~:::~
      Menu Contents
Project

    ~Iconify~:::~
    ~Preferences~
    ~About~:::~
    ~Quit~:::~
      AppIcon (iconified) Functions
1.
    ~Choosing~an~archive~:::~
      2.
    ~Choosing~a~destination~
      3.
    ~Re-activating~LhA-GUI~

```

## 1.10 Preferences interface

```

                                Window Interface Functions

    ~Choosing~default~source~directory~
    ~Choosing~default~target~directory~
    ~Compression~speed~:::~
    ~I/O~Buffer~size~:::~
    ~LHA~option~check-boxes~:::~
    ~AutoExtract~AppIcon~:::~
    ~Close~Gadget~Iconifies~:::~

```

---

```

~Choosing~a~viewer~::~::~::~::~::~::~::~::~
~Save~::~::~::~::~::~::~::~::~
~Use~::~::~::~::~::~::~::~::~
~Cancel~::~::~::~::~::~::~::~::~
      Menu Contents
Edit

~Reset~to~Defaults~
~Last~Saved~::~::~
~Restore~::~::~

```

## 1.11 Choosing a destination

Choosing a Destination Directory

Using the Directory Gadget

To select a destination directory for archive extraction, you must either type a valid directory name into the string gadget, select the keyboard shortcut (y), or select the file-requester image to the right of the string gadget.

Both the keyboard shortcut and the file-requester image will pop up an ASL directory requester. Through this, you can simply select a directory, and it will become the destination directory for archive extraction.

Using Drag-And-Drop

Simply drag a drawer or volume onto the LhA-GUI window to change the destination directory.

When Iconified

Simply drag a drawer or volume onto the "LhA-GUI (sleeping)" icon to change the destination directory.

## 1.12 Choosing an archive

Choosing an Archive

Using the LhA Archive Gadget

To select a source archive for viewing, extraction, testing, or deletion, you must either type a valid archive name into the string gadget, select the keyboard shortcut (L), or select the file-requester image to the right of the string gadget.

---

Both the keyboard shortcut and the file-requester image will pop up an ASL-file requester. Through this, you can simply select an archive, and it will become the source archive for future LhA-GUI operations.

Once the archive has been selected, LhA-GUI will verify that it is a valid archive, and will then present a directory-tree structure which represents the contents of that archive. This directory tree is in fact a custom list-view gadget, and can be navigated.

### Using Drag-And-Drop

To select a source archive, simply drag-and-drop an archive (from a Workbench drawer) into the LhA-GUI window.

### When Iconified

To select a source archive when LhA-GUI is iconified, simply drag-and-drop an archive (from a Workbench drawer) onto the "LhA-GUI (sleeping)" icon. This will reopen the main window, and build the directory tree for the new archive.

## 1.13 Navigating the listing

### Navigating Through the Archive's Contents

Once an archive has been selected, its contents will show up in the listview gadget. These contents are organized as a directory tree, and can be navigated accordingly.

Highlit entries are directories, and may be entered via a double-click.

Double-clicking a non-directory will un-archive that particular file, try to view it using the viewer set up in your preferences "Viewer", and finally will delete the file when finished viewing.

To go back a directory, you can use the parent gadget located just below the listview. To go back all directories, you can use the root gadget.

To select all of the files in a particular directory, you can use the select-all gadget, and to clear them, use the clear all gadget.

## 1.14 Extracting files

### Extract Gadget

Once an archive has been loaded, you can select various entries in the archive (via the listview). Presuming you've selected a destination directory, you may now select the Extract gadget, either by using the mouse

or by using the keyboard shortcut (E).

If you haven't selected any files in the archive, the default operation of Extract is to extract the complete contents of the archive to the destination directory.

Extract always opens up a small console window, which shows the progress of the actual LHA command. When the operation is complete, you can close that window by clicking on its close-gadget.

NOTE: Extract operations follow the LHA-GUI preferences settings for LHA options.

If you're having problems with extraction (no directory contents, wrong file protection bits, etc.), make sure you've set up the LHA options correctly.

## 1.15 Testing the archive

Test Gadget

Once an archive has been loaded, you can test the archive. This is done by either selecting the Test gadget with the mouse, or using the keyboard shortcut (T).

Test always opens up a small console window, which shows the progress of the actual LHA command. When the operation is complete, you can close that window by clicking on its close-gadget.

## 1.16 Project Menu - Iconify

Iconify Menu Option

By selecting Iconify from the Project menu of LhA-GUI, or by using the assigned hotkey (Right-Amiga I), you can iconify LhA-GUI. This means that the LhA-GUI window will disappear, and a small AppIcon will appear on the Workbench, titled "LhA-GUI (sleeping)".

Don't worry! You haven't lost anything, or eliminated your choice of archive and destination directory. Simply double-click the AppIcon and LhA-GUI will reappear where it last was, with all of your selections intact.

## 1.17 Project Menu - Preferences

Preferences Menu Option

By selecting Preferences from the Project menu of LhA-GUI, or by using the equivalent hotkey (Right-Amiga P), you gain access to LhA-GUI's preferences window. Here you can change LHA options, the default source directory for

---

your archives (perfect if you always download .lha files into a specific directory), and the default extraction directory.

See the

~Preferences~Interface~  
section for more details.

## 1.18 Project Menu - About

About Menu Option

By selecting About from the Project menu of LhA-GUI, you will see information about the author (see also the general information section), the tools used to create LhA-GUI, and those peoples/companies whom I wish to thank.

## 1.19 Project Menu - Quit

Quit Menu Option

By selecting Quit from the Project menu of LhA-GUI, you are able to exit this fine program. The~same result can be achieved by clicking on the close gadget of the LhA-GUI main window.

## 1.20 Re-activating LhA-GUI

You can reactive the iconified form of LhA-GUI by simply double-clicking on its AppIcon, by dropping an archive onto its AppIcon, or by dropping a directory or volume name onto its AppIcon.

## 1.21 Choosing default source directory

Default Source Directory Gadget

By selecting this gadget, either with the mouse or its keyboard shortcut (O), you can select the default directory where archives can be found. This simplifies selecting archives from the LhA-GUI main interface by starting the ASL file requester in this directory.

## 1.22 Choosing default target directory

Default Extraction Directory Gadget

By selecting this gadget, either with the mouse or its keyboard shortcut (X), you can select the default path for extraction operations. Of course, this is only the default, and it can be changed via the

---

~Directory~  
gadget in the  
LhA-GUI main interface.

## 1.23 Changing the compression speed

Compression Speed Gadget

This gadget controls the speed-to-efficiency ratio.

## 1.24 Changing the I/O Buffer size

I/O Buffer Size Gadget

This gadget controls the I/O buffer size. Better performance results from a larger buffer!

## 1.25 LHA option check-boxes

LHA Options

Recursive

This checkbox indicates whether recursive mode is on. If you select a directory within the archive, its contents will be extracted.

(Checked)

Extract newer files

This checkbox specifies whether LHA will extract only newer files from the archive if those files already exist in your destination directory. This proves useful when updating certain software distributions. (Checked)

Otherwise, the archives files will overwrite the destination dir's files, even if they were fresher. (Unchecked)

Ignore filenotes

This checkbox specifies whether LHA will leave filenotes intact for the files it adds/extracts (Unchecked), or whether it will strip them (Checked).

Add/Extract is move

This checkbox specifies whether LHA will delete the files from the archive once they've been extracted (Checked), or leave them intact (Unchecked).

Do not compress

This checkbox specifies whether LHA will compress the files it adds to the archive (Unchecked), or whether it will simply copy the files into the archive (Checked).

---



#### Ignore empty dirs

This checkbox specifies whether LHA will archive empty directories (Unchecked), or whether it will include them in an archive operation (Checked).

#### Keep attributes

This checkbox specifies whether LHA will keep the protection bits of the files it adds/extracts (Checked), or whether it ignores them (Unchecked).

#### Pathnames

This checkbox specifies whether LHA will keep the path names of the files it adds/extracts (Checked), or whether it just adds and extracts files in a non-hierarchical fashion with no directory structure (Unchecked).

## 1.26 AutoExtract AppIcon Option

### AutoExtract AppIcon Gadget

This checkbox determines the existence of the AutoExtract AppIcon (Checked) which can appear on the Workbench as a short-cut for extraction. If you don't want this AppIcon cluttering things up, turn off this option (Unchecked).

## 1.27 Close Gadget Iconifies Setting

### Close Gadget Iconifies Gadget

This gadget determines whether the close gadget of LhA-GUI's main window will iconify the application (Checked) or quit the application (Unchecked).

## 1.28 Save preferences changes

### Save Gadget

When this gadget is selected, either by the mouse or by its keyboard shortcut (S), the LhA-GUI preferences currently set up in the Preferences window are saved to two locations, `~ENVARC:` and `~ENV:`. Also, all further usage of LhA-GUI (either the currently running one, or future instances) will use these settings.

If you've made a mistake with the settings, you can always use the

`~Reset~to~Default~`

`~menu~option~` to get back some more sane values and then select `~save~again.`

This operation closes the Preferences window.

## 1.29 Use preferences changes

Use Gadget

When this gadget is selected, either by the mouse or its keyboard shortcut (U), the LhA-GUI preferences currently set up in the Preferences window is saved to one location, ENV: . Also, all further usage of LhA-GUI (either the currently running one, or future instances) will use these settings, until a reset or power-down.

If you've made a mistake with the settings, you can always use the

Reset to Default menu option to get back some more sane values.

This operation closes the Preferences window.

## 1.30 Cancel preferences changes

Cancel Gadget

When this gadget is selected, either by the mouse or its keyboard shortcut (C), any changes you've made in the Preferences window will be lost, and you will resume using the previous settings which were in effect.

This operation closes the Preferences window.

## 1.31 Edit Menu - Reset to Defaults

Reset to Defaults Menu Option

By selecting Reset to Defaults from the Edit menu of the LhA-GUI Preferences window, or by using the assigned hotkey (Right-Amiga D), you can reset the LhA-GUI preferences to their default values.

## 1.32 Edit Menu - Last Saved

Last Saved Menu Option

By selecting Last Saved from the Edit menu of the LhA-GUI Preferences window, or by using the assigned hotkey (Right-Amiga L), you can reset the LhA-GUI preferences to the last saved preferences (stored in ENVARC:).

## 1.33 Edit Menu - Restore

### Restore Menu Option

By selecting Restore from the Edit menu of the LhA-GUI Preferences window, or by using the assigned hotkey (Right-Amiga R), you can restore the LhA-GUI preferences to the values which were set up just prior to the Preferences window opening. Basically, this allows you to cancel any changes you've made, but without closing the Preferences window.

## 1.34 Viewer Preferences

### Viewer Gadget

This string-gadget allows you to enter the name of the application for viewing archive files when they've been double-clicked. The default is Multiview, which requires AmigaOS 3.0 or higher. You can type in the name of your own preferred viewer, or use the gadget on the right to bring up a requester for selecting your viewer.

## 1.35 Deleting from Archive

### Delete Gadget

Once an archive has been loaded, you can select various entries in the archive~(via the~listview). You~may now select the~Delete gadget, either by using the mouse or~by using the~keyboard shortcut (D).