

ScreenFool

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COLLABORATORS

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Chapter 1

ScreenFool

1.1 ScreenFool 2.7 AmigaGuide documentation

ScreenFool 2.7 User Documentation

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1.2 What is ScreenFool?

What Is ScreenFool?

ScreenFool is a utility for Amigas with Release 2 or later of the operating system. It allows you to work with so-called "Public" screens and thereby enhance your productivity, by allowing Workbench screen (and other) applications to use a different screen than the regular Workbench.

1.3 ScreenFool's features

Features:

ScreenFool has three main interfaces: the Intuition (GUI) interface, the Commodities (hot-key) interface, and the ARexx macro interface.

Some features of the Intuition interface include:

- Open a public screen in any available Intuition-supported display mode*.
- Close any open public screen.
- Make all windows that open on Workbench open on another screen (SHANGHAI).
- Set a default public screen for applications.
- Pop a screen to front when a visitor window appears on it (AUTOPOP).
- Change public screen palettes.
- Font-sensitive GUI.

The Commodities interface supports:

- Commodities Exchange control of the program window.
- Hiding and showing the control window.
- Hotkey access.

The ARexx interface supports:

- All Intuition and Commodities interface functions, plus:
- Obtaining information on available screens and display modes
- Numeric palette setting
- Options not included in the GUI.

Workbench.library support:

- Pop up the window at any time from Workbench's Tools menu.

* Full capability requires a keyfile that will be sent upon registration.

1.4 System Requirements

System Requirements:

AmigaDOS Release 2 or later (Intuition V37)
512K RAM (Much more recommended if you're opening many screens)
Any processor

ScreenFool is compatible with advanced processors and Release 3. It has been tested on a V37 (final) A2000 system with 3 MB RAM, 80 MB hard disk, and 68000 processor (7.14 MHz); and on a V39 A4000 system with 8 MB RAM, 120 MB hard disk, and 68040 processor (25 MHz).

1.5 Copyright and Registration Issues

Copyright:

ScreenFool is Copyright © 1992-94 Chris Lawrence. It is copyrighted shareware: you may make as many duplicate copies as you wish, provided the following restrictions are followed:

1. The program itself must remain unaltered.
2. This documentation file, and any others included, must remain unaltered.
3. The file reqtools.library is unaltered
(ReqTools is Copyright © 1991-94 Nico Francois)
4. The demonstration scripts and README file remain unaltered.

This archive may be included on the Fred Fish CD series (Frozen Fish, Fresh Fish, etc.) and the Aminet CD-ROM. If you are interested in some other form of distribution, contact the author at the address below.

Registration Details:

If you are satisfied with this program, you may send a registration fee of \$5 (\$10 for the program on disk via snail mail) to:

Chris Lawrence
Box 574060
Georgetown University
Washington DC 20057-4060
United States of America

Registering ScreenFool will entitle you to:

- Immediately receive a keyfile
 - Free upgrades* of registered version for eternity after registration.
This includes both maintenance upgrades and full upgrades.
 - Full technical support
-

- Future upgrades - period. No money, no enhancements
- * Upgrades by mail will be assessed a \$2 handling fee for disk cost, shipping and handling. Upgrades downloaded from Aminet or obtained on BBSes are free.

Please include your mailing address with payment (US currency, cashier's check, postal order) for a prompt upgrade. Personal checks: allow 2-4 weeks for check to clear. For fastest possible receipt of the keyfile, include an Internet E-Mail address (will be sent as uuencoded .lha file).

Other correspondence can be sent to the above address, or via the Internet to clawrenc@cap.gwu.edu.

If you have previously registered ScreenFool and have not received a keyfile for this and future releases, please drop me a line.

Keyfiles:

Basically, they are governed by common sense. For those budding lawyers out there, it's spelled out below.

AGREEMENT FOR THE USE OF KEYFILES FOR SCREENFOOL

If you have registered the program, you are entitled to a keyfile that enables the New Screen requester. Upon receipt of the keyfile, you may use the keyfile on one system at any given time. The file may be duplicated onto any computers that you may own, lease, or rent, but must not be allowed to be distributed to computers owned, leased, or rented by another individual. Additional keyfiles for additional systems under your control may be issued at the discretion of the author for \$2 each. (These keyfiles will bear different registration numbers for tracking purposes.) Additional keyfiles are licenced from the main keyfile, and all of your keyfiles are considered a indivisible unit.

In essence: you may use a specific ScreenFool keyfile on one Amiga at a time. To use the New Screen requester on two Amigas at one time, you must have two keyfiles. Additional keyfiles are \$2 each. All additional keyfiles must be retained by the owner of the main keyfile.

You may transfer all of your keyfiles to another individual, provided that you destroy all copies of all of your keyfiles, the other individual has read and understood this license, and you inform the author within thirty (30) days of the transfer. You must inform the author of the name, address, and email address (if applicable) of the transferee. The transferee will receive all of the rights that a registered ScreenFool user is entitled to, and you will be required to either re-register or be transferred the rights to another person's keyfiles in order to be considered a registered user again. There is no fee for a keyfile transfer. You may charge the transferee for the rights to your keyfiles if you wish. You must transfer all of your keyfiles, or not transfer any of them. Renting or leasing of keyfiles is not permitted.

In essence: you may sell ALL of your keyfiles to another individual. The other individual will receive all of the rights to ScreenFool that you had previously received, and you will revert to having the rights of an unregistered user. There is no limit to the number of transfers that can be

made of a specific set of keyfiles.

Keyfiles may not be placed in (a) download directories of Bulletin Board Systems, (b) world-read directories of an AFS-based system, (c) world-read directories of an FTP site, (d) world-read directories of an FSP site, or (e) any place where an anonymous or unentitled (person who has not registered ScreenFool or been transferred someone else's registration) user might be able to receive a copy of the file (excepting floppy diskettes used for personal storage).

It is illegal for an unentitled user to use a keyfile. Violations will be prosecuted to the fullest extent of the law.

By receiving a keyfile and using it, you imply consent to this agreement.

Exceptions to this agreement must be made by the author (me) in writing.

Please Note:

Many terms used in this document are trademarks or registered trademarks. This is generally indicated by the use of capital letters, i.e. AmigaGuide.

1.6 The Font-Sensitive GUI

The Font-Sensitive GUI:

ScreenFool Release 2.4U added the additional feature of a font-sensitive GUI to the ScreenFool interface. Basically, ScreenFool tries to adapt to the screen font of screens that it opens on.

There are certain limitations to this feature:

- 1) If the screen font is greater than 18 point, the GUI reverts to topaz.
- 2) If ScreenFool thinks that the screen is too small to display the full window, ScreenFool will revert to topaz 8, or the BACKUPFONT set in the tool types. If topaz or BACKUPFONT is still too large, ScreenFool will attempt to use SystemThin.font 8 point, which is a narrow font supplied with ProWrite, or the SMALLFONT set in the tool types.
** SystemThin.font IS NOT REQUIRED FOR SCREENFOOL TO WORK.
- 3) If your font has a tf_XSize somewhere in the vicinity of machine infinity, as is the case with many poorly designed fonts, ScreenFool will go through the steps as outlined in limitation 2, above.
- 4) The window may look odd at point sizes outside the 6-12 range. This is due to the fact that ScreenFool has not been extensively tested with very large and very small fonts.
- 5) Under Release 3 and later, the checkmarks are scaled if the font is greater than 11 points tall.

Please let me know about any enhancements you would like to see in the GUI font adaptivity.

1.7 Installation

Installation:

Before using ScreenFool, it is necessary to install the ReqTools and ScreenFool libraries to your LIBS: directory.

Workbench: Double-click on the icon labelled "Install-SF."

CLI: Type "execute Install-SF" at the CLI prompt.

The installation program will then install ReqTools to the main LIBS: directory, if necessary, and then install screenfool.library. Once the libraries are installed, ScreenFool will be ready to run.

If you will use ScreenFool often, it may be beneficial to copy ScreenFool into your SYS:WBStartup (for automatic running when Workbench is started) or SYS:Tools/Commodities (Floppy: Extrasx.x:Tools/Commodities) directory.

1.8 Some basic terminology

Terms You Need To Know:

PUBLIC SCREEN: A screen that other programs are allowed to open windows on. Intuition V36 (Release 2.0) and later support this feature. Many programs can open on a public screen.

DEFAULT SCREEN: The screen that applications that do not open their own screen will open onto. For pre-V36 applications, this was Workbench. Newer applications will go to this screen.

VISITOR WINDOW: A window on a public screen opened by an application that didn't open the screen. The ScreenFool main window is a visitor window, as is the IconEdit window.

DISPLAY ID: A number that represents a specific display mode. For example, a low resolution, non-interlaced screen has a display ID of 0. For more details, see the Display ID reference.

MODE PROMOTION: A feature of Release 3 (V39) of graphics.library, which allows some screen modes to be essentially replaced by others. For example, DBLNTSC:High Res No Flicker replaces NTSC:High Res Laced. ScreenFool fully supports Mode Promotion.

FLAG: A variable that can only have a value of on or off.

SHANGHAI: A system flag that determines the behavior of the default public screen. If this flag is set, pre-V36 applications will open on the default public screen, even if they ask for Workbench.

AUTOPOP: A system flag that makes a public screen to pop to the front when a visitor window opens on it.

INTERLEAVED BITMAP: A screen type, only available in Release 3 and later,

which improves the display on many-bitplane screens by reducing the "color flashing" during scrolling. ScreenFool opens its screens on V39 systems as interleaved, unless you override this behavior. Pre-V39 systems use a "standard bitmap," as does V39 if you use the NEW NOTINTERLEAVED macro command.

1.9 Running and Using ScreenFool

Running And Using:

To run ScreenFool from the Workbench, double-click the Commodity icon labelled ScreenFool.

To run ScreenFool from the Shell, type "ScreenFool" at the command prompt. If you want to continue using the current shell window, type:

```
run <nil: >nil: ScreenFool
```

If you wish to set startup options from either Workbench or the Shell, see the section on Tool Types and Shell Options.

The ScreenFool window will then be displayed. This window allows you to manipulate the screens in the scrolling list.

The action gadgets on the right of the scrolling list (from top) will open a new screen, close the selected screen, and change the selected screen to the default screen.

The two checkboxes, Shanghai and AutoPop change the behavior of all Public screens. Both default to OFF on the Amiga under Releases 2 and 3.

The two message lines at the bottom of the window display the name of the default screen and messages from executed commands. The status line might say 'Couldn't close screen' if you tried to close a screen with windows still open on it, for example.

Other features are concealed in the menus. All choices have keyboard equivalents. Note that you may use either Right Amiga-key combinations or the letter on its own. By menu, they are:

Project Menu:

- About... (?) - Display program information.
- Hide (H) - Conceal program user interface.
- Quit (Q) - Exit the program.

Screen Menu:

- New... (N) - Open a new screen.
- Close (C) - Close selected screen.
- Make Default (D) - Make the selected screen the default screen.
- To Front (F) - Bring selected screen to front of stack.
- To Back (B) - Move selected screen to back of stack.
- Palette... (E) - Change the palette for selected screen.
- Write Palette... (W) - Write a screen's palette to a script.

Information... (I) - Show screen name, resolution, etc.

Tools Menu:

Jump Window (J) - Jump the ScreenFool window to the selected screen.

Update Display List (U) - Refresh scrolling list.

Macro Menu:

Command... (X) - Execute a single command line.

Macro » Console... (,) - Execute an ARexx macro with a window to display the output.

Macro » No Console... (M) - Execute an ARexx macro without a window to display any output (output redirected to NIL:).

For further information on menu choices, pull down the menu to the option you want information for, and then press Help BEFORE releasing the right mouse button.

Important note: Help is only available if the file ScreenFool.guide is in the directory that ScreenFool is launched from, or in a directory in the AmigaGuide search path.

1.10 About: Obtain program information

Project » About...

This option gives the version of the program, its registration status, the name of the ARexx port, and a summary of available Chip and Fast RAM.

Hotkey: Amiga-?

1.11 Hide: Hide the control window

Project » Hide

Hide the main window. The window can be brought back up again by pressing the Commodities hotkey for this program (default: Control F1), by choosing "Show" in the Commodities Exchange program, or by using the Workbench Tools menu.

Hotkey: Amiga-H

1.12 Quit: Exit ScreenFool

Project » Quit

Quit ScreenFool. This can also be accomplished by using the Commodities "Kill" button, or by breaking the ScreenFool process (using Control-C or the Shell BREAK command).

Hotkey: Amiga-Q

1.13 New: Open a new screen

Screen » New

New Screen (Action button)

Opens a new screen, duplicating the characteristics of the screen that the main window is currently open on.

Under Release 3 or later, the screen will be interleaved.

If you register, you will be able to manipulate the options for the new screen in a requester.

The Listview gadget contains the available display modes.

The Screen Name text gadget is used to enter a name for the public screen. This name must be unique.

The Overscan cycle gadget allows you to choose from Text, Graphics (Standard), Maximum and Video overscan settings.

The Bitplanes slider gadget allows you to choose the number of bitplanes the screen should use (use the left and right cursor keys to change it from the keyboard). Note that all depths may not be available with HAM and EHB displays, so use care.

The Width and Height integer gadgets and check-boxes allow you to choose the screen's width and height. Note that you can't change the width and height of OSCAN_VIDEO screens.

The Like Workbench checkbox, under Release 3 and later, allows you to create a screen that is a direct clone of the Workbench screen automatically.

The Interleaved Screen checkbox, under Release 3 and later, creates a screen that has properties that reduce flickering during scrolling.

Note that help is not available directly from the Open New Screen... requester. This will be rectified in a later release.

Hotkey: Amiga-N

1.14 Close: Close a public screen

Screen » Close

Close Screen (Action button)

Close the currently selected public screen. The screen will not close if any windows are currently open on it.

The screen need not have been opened by ScreenFool.

Hotkey: Amiga-C

1.15 Make Default: Change the default public screen

Screen » Make Default
Make Default (Action button)

Change the default public screen to the currently selected public screen.

Hotkey: Amiga-D

1.16 To Front: Bring a public screen to the front

Screen » To Front

Bring the selected public screen to the front of the display. A shortcut is to double-click on the screen's name in the list.

Hotkey: Amiga-F

1.17 To Back: Push a public screen to the back

Screen » To Back

Push the selected public screen to the back of the display. This is probably of limited usefulness.

Hotkey: Amiga-B

1.18 Information: Get information on a public screen

Screen » Information...

Get information on the currently selected public screen. Information includes the screen's title, public screen name, display identifier, resolution, depth, and font.

Under Release 3, the information requester also indicates if the screen's bitmap is interleaved.

Hotkey: Amiga-I

1.19 Palette: Change a public screen's palette

Screen » Palette...

Change the palette of the currently selected public screen, using the regtools palette requester.

Hotkey: Amiga-E

1.20 Write Palette: Save a screen's palette

Screen » Write Palette...

Save the palette of the selected screen as a macro. This macro can be used to set the colors of the screen by executing it later.

Hotkey: Amiga-W

1.21 Jump Window: Jump the window to another public screen

Tools » Jump Window

Makes the control window appear on the currently selected public screen. This screen will pop to the front, and the window will be made active.

Hotkey: Amiga-J

1.22 Update Display: Update the control window

Tools » Update Display List

Update the control window display. This is sometimes necessary after closing a public screen.

Under ScreenFool 2.4U and later, this forces the reloading of the display mode list. This is useful after opening another monitor or changing locales.

In future, an automated update may be done for locale changes.

Hotkey: Amiga-U

1.23 Macro » Script Menu

Macro » Script Menu

Use Macro » Script » Console... for an output window, or use Macro » Script » No Console... for a script without a window.

1.24 Script » No Console: Execute ARexx macro

Macro » Script » No Console...

Execute an ARexx macro without console input and output.

Hotkey: Amiga-M

1.25 Script » Console: Execute ARexx macro

Macro » Script » Console...

Execute an ARexx macro with console input and output.

Hotkey: Amiga-,

1.26 Command: Execute macro command

Macro » Command...

Execute a macro command line.

Hotkey: Amiga-X

1.27 Shanghai: Toggle the SHANGHAI flag

Shanghai (Check box)

Toggle the SHANGHAI public screen flag.

Hotkey: S

1.28 Autopop: Toggle the AUTOPOP flag

AutoPop (Check box)

Toggle the AUTOPOP public screen flag.

Hotkey: A

1.29 Tool Types and Shell Options

Tool Types and Shell Options:

These options can be added to the Tool Types by using the "Icons » Information..." option on the Workbench. From the Shell, they can be used by following the ScreenFool command with the tool type and its option, in quotes, as below:

```
ScreenFool "TYPE1=OPTION1" "TYPE2=OPTION2" ...
```

The available Tool Types are:

DONOTWAIT - Make sure this Tool Type is included if ScreenFool will be run in WBStartup.

CX_POPUP - YES to have window pop up immediately when run; NO to hide window until summoned by hotkey or Commodities Exchange. Default: YES.

CX_POPKEY - The key specification for the keypress that will pop up the window. Default is "Control F1". The keypress combinations are listed on page 5-29 of "Using the System Software" (2.0 users) and on page 10-25 of the "Workbench 3.0" manual.

CX_PRIORITY - Sets relative priority of the ScreenFool program, from ~127 to -128 (to other commodities). Defaults to 0.

STARTUP - A REXX macro to automatically run on startup. Defaults to "SF-Startup". ScreenFool uses a ".sf" extension on its macros, so SF-Startup.sf would be the proper name for the startup macro.

PORTNAME - Name for the AReXX port. Normally "ScreenFool.1".

PUBSCREEN - Name of the screen for ScreenFool to initially open on. Will normally open on the default screen.

COMMAND - A single macro command to run when the program initially starts. Normally there is no command.

REXXDIR - Default macro directory. REXX: if omitted.

BACKUPFONT - Font to use when screen font is too large. The default is topaz.font.

BACKUPSIZE - Point size for BACKUPFONT; defaults to 8.

SMALLFONT - Font to use when screen and backup fonts are too large. The default is SystemThin.font.

SMALLSIZE - Point size for SMALLFONT; defaults to 8.

WEIRDMODES - Set WEIRDMODES=YES if you want to see Extra Halfbrite and HAM modes in the New Screen requester.

FINDKEY - Set to NO if you want to disable the Keyfile search. Defaults to YES.

1.30 The Macro Interface

The ScreenFool macro interface:

One of ScreenFool's most powerful features is the ability to run completely under the control of an ARexx program or macro. This allows a lot of versatility in using the program.

A few commands can return information. To obtain this information, OPTIONS RESULTS must have been specified in the program; otherwise, you will need to use the VAR or STEM option of a command.

After each command, the ARexx variable SFSTATUS will contain the text currently on the status line. If RC is 0, this will usually state that the action was completed OK; otherwise, it will be an error message.

There are three main ways of using the macro interface:

1. Use the Macro » Command (Amiga-X) command, to execute one command line.
2. Use the Macro » Script commands, to execute an ARexx program.
3. Create a macro called SF-Startup.sf, which will be automatically executed on startup.

The Macro » Command command allows simple macro commands, like:

```
NEW DISPLAYID=0
```

Which would open a new, low resolution screen. (Note that case does not matter, EXCEPT in screen names)

More complicated actions require the writing of scripts. This requires a text editor.

Here's an example script:

```
/* Example.sf -- A really dumb example */
OPTIONS RESULTS

'new displayid=0 screenname="ReallyDumb.1"'

'info "ReallyDumb.1" /* displays information requester */

'close "ReallyDumb.1"'
/* End of script */
```

An example script file, SFTest.sf, shows the basic format of ScreenFool ARexx script files. In addition, an example startup script is included which sets the SHANGHAI and AUTOPOP flags every time ScreenFool is started.

Note that only one command can be entered at a time using Macro » Command or the COMMAND tooltype. If ARexx is not available, the Macro » Command facility is still available, however.

ARexx Command Listing

1.31 ARexx and Macro Commands

ARexx and Macro Commands:

Macro Commands

GetAttr

Macro
Command
NOP

Screen Management Functions

New
Close
Default
Front
Back

Palette
GetPalette
WritePalette

Info
Shanghai
AutoPop

User Interface Control

Hide
Show
Jump

Requesters

LockGUI
UnlockGUI
StatusLine
Update

Other

About
Quit

Aliases -- Old command names or style-guide synonyms

Get for GetAttr

RX for Macro
CmdShell for Command

Deactivate for LockGUI
Activate for UnlockGUI
Status for StatusLine

1.32 Hide: Hide the main window

Format: HIDE

Close the program window until reopened by either pressing the hotkey or sending the Show command.

See Also: Show

1.33 Show: Show the main window

Format: SHOW

Open the program window on the screen that it was last on; or the default screen (if the last screen has been closed, or ScreenFool has not opened its window yet).

See Also: Hide

1.34 Quit: Exit ScreenFool

Format: QUIT

Quit ScreenFool. All further ARexx commands to ScreenFool will return with an error message.

1.35 About: Display program information

Format: ABOUT

Display the version information for this copy of ScreenFool in a requester. Ignored if the ScreenFool window is hidden.

The requester will not be displayed if Requesters are off.

See Also: Requesters

1.36 Shanghai: Change behavior of the default public screen

Format: SHANGHAI [On | Off | Toggle]

Change the global public screen flag that controls the behavior of the default public screen. When on, even programs that request Workbench will get the default screen; when off, only programs that don't care what screen they get will get the default.

Options:

On/S: Sets the flag
Off/S: Clears the flag
Toggle/S: Toggles the flag

See Also: AutoPop, SHANGHAI Definition

1.37 AutoPop

Format: AUTOPOP [On | Off | Toggle]

Change the global public screen flag that determines whether a screen should pop to the front when a window opens onto it.

Options:

On/S: Sets the flag
Off/S: Clears the flag
Toggle/S: Toggles the flag

See Also: Shanghai, AUTOPOP Definition

1.38 Requesters: Control display of ScreenFool requesters

Format: REQUESTERS [On | Off | Toggle]

Change the internal flag in ScreenFool that determines whether requesters will be displayed requesting user input. This flag defaults to ON.

Options:

On/S: Sets the flag
Off/S: Clears the flag
Toggle/S: Toggles the flag

1.39 New: Open a new public screen

Format: NEW [ScreenName] DISPLAYID=[ID] PLANES=[Bitplanes] [NoGUI]
SCANTYPE=[Text | Standard | Max | Video] FONT=[name].font SIZE=[points]
[SysDefText] WIDTH=[width] HEIGHT=[height]

Extra V39 switches:

[NotInterleaved] [LikeWorkbench]

Open a new screen, using the chosen parameters. The default settings for these parameters are those of the screen that ScreenFool is (or was last) open on, except for Font and Size, which are taken from Preferences' Screen Text; Interleaved, which defaults On under V39; and LikeWorkbench, which is always off unless set by the user.

All screens are opened, by default, with a full set of pens (including the extra V39 pens, under V39), and with the full Workbench palette. Under V39, the screen will share its pens. The AutoScroll flag is also set for screens

that exceed the DisplayClip region.

Options: {All Optional}

ScreenName - name for screen
(ScreenFool will make a name up if omitted (ScreenFool.x))

DisplayID/K/N - a valid DisplayID in decimal.
Hires=32768; Hires-Interlaced=32772.

Planes/K/N - number of bitplanes (1-maximum for this mode)

NoGUI/S - ensures requester will not be displayed, even if the user has a keyfile.

ScanType/K - Overscan setting. One of:
Text
Standard
Max
Video

Font/K - A valid font name (for screen titlebar).
Include the .font extension.

Size/K/N - A valid height for the font.

SysDefText/S - Use the monospaced font as set in Preferences for the screen font.

Width/K/N, Height/K/N - width and height for the screen

NotInterleaved/S - use a standard bitmap (under Release 3)
See INTERLEAVED BITMAP for details.

LikeWorkbench/S - duplicate Workbench attributes (under Release 3)
Setting this flag on V39 will only permit the Interleaved flag to function. This flag is ignored under V38 and earlier.

See Also: Close, Display IDs

1.40 Close: Close an existing public screen

Format: CLOSE {Screen}

Close the specified public screen. This screen need not have been opened by ScreenFool.

Options:
Screen/A - name of screen to close ** REQUIRED

See Also: New

1.41 Default: Change the default public screen

Format: DEFAULT {Screen}

Make the selected screen the default public screen.

Options:

Screen/A - Name of the screen ** REQUIRED

See Also: Definition of Default Public Screen, Shanghai

1.42 Info: Obtain information on a public screen

Format: INFO {Screen} STEM=[Stem] VAR=[Var] [NoGUI]

Get information on the selected public screen, and (optionally) return this information to the macro.

Options:

Screen/A - name of screen to get info on ** REQUIRED

Stem/K - stem name to get stem result in. Fields will be filled as follows:

.SCREEN - Handle

.TITLE - Default title

.DISPLAY.TITLE - Current title

.DISPLAY.NAME - Name of current display mode

.DISPLAY.ID - Display mode ID in decimal

.DISPLAY.WIDTH - Display width in pixels

.DISPLAY.HEIGHT - Display height in pixels

.DISPLAY.DEPTH - Screen bitplanes

.DISPLAY.COLORS - Screen colors

.DISPLAY.LEAVED - Is this screen interleaved? (Yes or No)

.FONT.NAME - Name of screen font

.FONT.YSIZE - Screen font height

Var/K - variable name to obtain information in. Fields will be filled in the same order as the stem.

NoGUI/S - Do not display requester with information. If there is not a Var or Stem, ScreenFool sets RESULT equal to what Var would have been.

See Also: GetAttr

1.43 Back: Send a screen to the back

Format: BACK {Screen}

Push the specified public screen to the back of the display. This command is probably of limited usefulness.

Options:

Screen/A - name of screen to push to the back ** REQUIRED

See Also: Front

1.44 Front: Bring a screen to the front

Format: FRONT {Screen}

Bring the specified public screen to the front of the display.

Options:

Screen/A - name of screen to bring to the front ** REQUIRED

See Also: Back

1.45 Jump: Jump the ScreenFool window to a different screen

Format: JUMP {Screen}

Jump the ScreenFool window to a different screen. If the window is hidden when the command is issued, it will be popped up.

Options:

Screen/A - name of screen to jump to ** REQUIRED

1.46 Palette: Allow user to edit the palette of a screen

Format: PALETTE {Screen} [n] [r] [g] [b] [FullRes]

Edit the palette of the selected screen. If all that is specified is the name of a public screen, the ReqTools palette requester will appear on that screen.

If a palette entry number (between 0 and the maximum pen on the screen) is given, direct RGB entries can be made, in the order Red Green Blue.

The FullRes option determines how the RGB values will be interpreted. By default, ScreenFool uses a 256-level resolution in each position. This is sufficient for both ECS and AGA Amigas.

Note that in the default system, the values range from 0-255. If running under ECS, the values are mapped to the 0-15 range internally.

If FullRes is used, each color may be specified to 32-bit resolution.

Options:

Screen/A - name of screen to edit palette of ** REQUIRED

Entry/N - The palette entry. From 0 to 2*(planes)-1

Red/N - The Red value

Green/N - The Green value

Blue/N - The Blue value

FullRes/S - If set, use 32-bit color resolution.

See Also: GetPalette, WritePalette

1.47 GetPalette: Get palette entries for a screen

Format: GETPALETTE {Screen} {n} [FullRes]

Returns the nth palette entry in RESULT, in the format "r g b".

The FullRes option determines how the RGB values will be returned. By default, ScreenFool uses a 256-level resolution in each position. This is sufficient for both ECS and AGA Amigas.

If FullRes is used, each color will be returned in 32-bit resolution. This may be useful for high resolution video cards, AAA, and the like.

Options:

Screen/A - name of screen get an entry from ** REQUIRED

Entry/N/A - The palette entry. From 0 to 2**(planes)-1 ** REQUIRED

FullRes/S - If set, use 32-bit color resolution.

See Also: Palette

1.48 WritePalette: Save a screen's palette to a file

Format: WRITEPALETTE {Screen} [Filename]

Writes the entire palette of the chosen screen to a file. If the screen has a 3.0 extended palette, the entire palette will be written.

This file can later be executed by the RX command, to change the colors of the existing screen. It can also be edited to open the screen as well.

This command writes 32-bit resolution palette data.

Options:

Screen/A - name of screen get an entry from ** REQUIRED

Filename - name of file to write script to
If not specified, requester will be used.

See Also: Palette

1.49 Command: Execute a single command line

Format: COMMAND [Commandline]

Alternate Form: CMDSHELL [Commandline]

Execute a single macro command line. If no commandline is offered by the program, a requester will be popped up.

The CMDSHELL form is available for style-guide pseudo-compatibility.

Options:

Commandline/F - a command to be executed

See Also: Macro

1.50 Macro: Execute an ARexx script

Format: MACRO [CONSOLE] WINDOW=[Windowspec] [ASYNCH] [Command]

Alternate Form:

RX [CONSOLE] WINDOW=[Windowspec] [ASYNCH] [Command]

Execute an ARexx macro program. If no command is given, a file requester will appear allowing the user to select a file to execute, or type a command line (with options).

The RX form, and the ASYNCH switch, are available for style-guide pseudo-compatibility.

Options:

CONSOLE/S - Specify if you need a CON: window for I/O.

WINDOW/K - Specify a special window specification for I/O.

ASYNCH/S - Non-functional. All macros are asynchronous.

COMMAND/F - command line to send to ARexx. Filenames should have an extension if the filename does not end with ".sf"

See Also: Command

1.51 GetAttr: Get Attributes

Format: GETATTR {RequestType} VAR=[Var] STEM=[Stem]

Alternate Form: GET {RequestType} VAR=[Var] STEM=[Stem]

Get information directly from ScreenFool that is unavailable through the Intuition interface.

Options:

RequestType/A - determines type of information to get -- see below.

Var/K - sets variable to get information into

Stem/K - sets stem to get information into.

Not applicable for DefScreen or SFScreen.

If neither VAR or STEM are specified, the information will be returned (if possible) in RESULT.

These are the currently supported request types, along with the data that will be returned when specified.

Screens

Var or Result - List of open screens, quote & space delimited

Stem - Will be set to the following:

stem.COUNT - Number of open screens

stem.0 to stem.(count-1) - Screen handles

Displays

Var or Result - List of display modes and their ID numbers

Stem - Set to the following:

stem.COUNT - Number of display modes available

stem.0 to stem.(count-1) - Groups:

stem.n.NAME - Display name

stem.n.ID - Display ID number

stem.n.PROP - Display property flags (see graphics/displayinfo.h)

stem.n.MAXDEPTH - Maximum number of bitplanes

stem.n.GFXWIDTH - Graphics overscan width

stem.n.GFXHEIGHT - Graphics overscan height

stem.n.TXTWIDTH - Text overscan width

stem.n.TXTHEIGHT - Text overscan height

Modes

Var or Result - A string of the following format

"Shanghai AutoPop Requesters", where each flag is replaced by

On or Off, depending on the current state of the flag.

Stem

stem.SHANGHAI On/Off

stem.AUTOPOP On/Off

stem.REQUESTERS On/Off

DefScreen

Var or Result - Default public screen

Stem - No result

SFScreen

Var or Result - ScreenFool's public screen

Stem - No result

Application

Var or Result - ScreenFool's version information string

Stem - The following stem will be filled:

stem.VERSION - Normal version string

stem.COPYRIGHT - Copyright information

stem.SCREEN - Screen that the window is/was open on

stem.DEFSCREEN - The default public screen's name

stem.PORTNAME - ARexx port name

stem.IVERSION - Internal version number. Includes compilation date and time. Use this information in bug reports, please!

stem.SCREENS - Number of open public screens

stem.DISPLAYMODES - Number of available display modes. This will not include dual-playfield modes, and may not include EHB and HAM modes, depending on the WEIRDMODES tool type.

See Also: Info

1.52 Help: Obsolete command

Format: `HELP`

This command is obsolete. The online help facility has been moved to an AmigaGuide document. See `UserHelp`.

A call to this command will return "Command obsolete."

1.53 UserHelp: Open GUI AmigaGuide help

Format: `USERHELP [topic]`

Obtain help using the AmigaGuide help system. If no topic is specified, the "Running and Using" section of this `.guide` file will appear.

Options:

topic - The topic to be looked up

1.54 NOP: No operation

Format: `NOP`

No operation. Included for style-guide pseudo-compatibility.

1.55 Update: Update the ScreenFool window

Format: `UPDATE`

Refresh the ScreenFool window. This command is occasionally necessary from macro programs.

Under ScreenFool 2.4U and later, this forces a reload of the display mode listing. An automated `UPDATE` may be done in future versions if the locale is changed.

1.56 StatusLine: Display a message on the status line

Format: `STATUSLINE [message]`

Alternate Form: `STATUS [message]`

Display a message on the ScreenFool status line.

Options:

Message/F - message to display

1.57 LockGUI: Inhibit user interface function

Format: LOCKGUI

Alternate Form: DEACTIVATE

Lock ScreenFool's user interface from Intuition access. This is useful in some macro programs, such as PSPub.sf, which change the default public screen.

The DEACTIVATE form is provided for style-guide compatibility.

See Also: UnlockGUI

1.58 UnlockGUI: Re-enable user interface function

Format: UNLOCKGUI

Alternate Form: ACTIVATE

Unlock ScreenFool's user interface. If multiple outstanding locks, will not take effect until all locks are unlocked.

The ACTIVATE form is provided for style-guide compatibility.

See Also: LockGUI

1.59 In conclusion...

Some Features Not Mentioned Elsewhere:

Double-clicking on a screen name in the scrolling list will bring that screen to the front. Note that double-clicking is NOT supported in the display mode list.

You can use the up and down cursor keys to select screens from the scrolling lists.

Using the "Tools » ScreenFool" menu option on the Workbench will pop the ScreenFool window to the front.

For help on options without menu items (for example, Shanghai, Requesters, and AutoPop), press L and then type the option name into the requester that appears and press Return. [Look for gadget help in an upcoming release]

You can quit ScreenFool while public screens that it opened are still open. If you want to close the screens, use ScreenFool to close them later (simply re-run ScreenFool). The screens can also be closed by other applications; however, this will result in a loss of approximately 400 bytes of memory per screen.

The screen mode choices are, by default, limited to non-ExtraHalfBrite, non-HAM modes. ScreenFool refuses to open a screen in one of these modes when they are excluded, even from the command line. This behavior may be

changed by using the WEIRDMODES tool type.

In Scripts:

If you want a high resolution "laced" (640x400) screen, specify the generic display ID 0x8004 (decimal 32772), not the NTSC or PAL specific display ID. This provides maximum compatibility with Mode Promotion under Release 3 and above. These can be found in the C header file <graphics/displayinfo.h> (under Release 3, <graphics/modeid.h>) or by making a copy of the output from ScreenFool's GetAttr Displays or from the ShowAvailModes example included in the screenfool.library developer distribution.

I hope that you enjoy ScreenFool!

Chris Lawrence
17 August 1994

1.60 Versions covered

VERSIONS COVERED IN THIS DOCUMENT:

ScreenFool 2.7 (5.9.94)
ScreenFool 2.7-AP020 (5.9.94)

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Damned is he who wears the yellow hat. -- I Corinthians 22:6

1.61 Appendix: Display ID reference

This is a brief guide to the most often-used available DisplayIDs in ScreenFool. A more complete list can be found using GetAttr Displays (as demonstrated in the script SFTest.sf). Note that display IDs returned by this function are absolute (monitor-specific), not generic.

Use the generic IDs in scripts for compatibility with Mode Promotion and international systems. Unrecognized display IDs are converted to generic HiRes in attempt to recover from script errors.

Please note that several monitors are not included in this list, notably the Euro36 and Euro72 monitors (which provide European systems with NTSC resolutions at higher refresh rates) and the Super72 monitor.

Default.monitor (NTSC/PAL/DblNTSC/DblPAL)

Name	Resolution (hex)	Display ID (decimal)	Display ID (hex)	Display ID (decimal)
LowRes	320x200	(256)	0x0	0
HiRes	640x200	(256)	0x8000	32768
SuperHiRes	1280x200	(256)	0x8020	32800
LowResLace	320x400	(512)	0x4	4
HiResLace	640x400	(512)	0x8004	32772
SuperHiResLace	1280x400	(512)	0x8024	32804

Multisync.monitor (VGA/Multisync) *

Productivity	640x480	^3\$	0x39024	233508
ProductLaced	640x960	^3\$	0x39025	233509

Doublescan (AGA) monitors *

LoRes-DblLace	320x800	(1024)	0x5	5
HiRes-DblLace	640x800	(1024)	0x8005	32773

^1\$ Parentheses indicate PAL (50 Hz) vertical resolution. These resolutions are non-overscan and typical of Pre-2.0 screens.

^2\$ Promoted by Mode Promotion

^3\$ No overscan

* These resolutions require a VGA or Multisync monitor

1.62 Appendix: A Note About Version Numbers

There are two "revision tracks" for ScreenFool. They are Regular and Advanced Processor. The version string of the program depends on what track of ScreenFool you are using.

The regular version has version strings of the format:

ScreenFool x.x (d.m.y)

The advanced processor version has a version string like:

ScreenFool x.x-AP020 (d.m.y)

1.63 Appendix: Revision History

The following is a brief revision history of ScreenFool.

This Version: ScreenFool 2.7 (5.9.94)

CHANGES FROM SCREENFOOL 2.6 (17.8.94)

-
- * Direct setting of RGB values now available in the PALETTE macro command.
- * New GETPALETTE macro command to get specified palette entries.
- * Includes ability to write a screen's palette to a script file.
- * Includes Advanced Processor version in standard distribution.

CHANGES FROM SCREENFOOL 2.5U (13.1.94)

-
- * Registered and Unregistered releases combined into one program. Currently registered users will receive a keyfile that enables the New Screen requester.

CHANGES FROM SCREENFOOL 2.4U (11.9.93)

-
- * UPDATE function now expanded in scope. May now force a screen update.
- * Window disable functions implemented using more speed-efficient methods.
- * Main program and library recompiled using SAS/C 6.51 -- better optimizer, smaller code size.
- * Library memory fragmentation greatly reduced.
- * Replaced extended character $\$ \times \$$ with x, for better compatibility with non-Amiga fonts.
- * Registered version requester now has better unusual screenmode identification and supports RTG monitors better (you set planes rather than colors).
- * Fixed bug with screen information requester not properly identifying display modes without names.

CHANGES FROM SCREENFOOL 2.3U (6.9.93)

- - * Help file improved; incorrect references removed.
 - * Registered version mode requester improved.
 - * Now has a font-sensitive GUI.
 - * Bug in library that would sometimes create an empty screen list removed.
-

- * New tool types are available to control fonts.

CHANGES FROM SCREENFOOL 2.2U (29.8.93)

- * Help now moved to AmigaGuide file, resulting in a code decrease of approximately 10K. Online help is only available if the .guide file is in the directory ScreenFool is started from, or in a directory which is listed in ENV:AmigaGuide/Path.

NOTE: amigaguide.library need not be present for ScreenFool to run. However, no help will be available if the library is not opened.

- * All documentation now in AmigaGuide format.

CHANGES FROM SCREENFOOL 2.1U (13.7.93)

- * Includes support for V39 NewLookMenus, and interleaved bitmap screens.
- * Now includes better support for ReqTools V38.
- * Checked with Enforcer.

CHANGES FROM SCREENFOOL 1.12U (11.7.93)

- * Screen and display management functions moved to AmigaDOS shared library. This transfer will benefit Amiga developers by making high-level management functions available for all Amiga users (Release 2+).
- * Tooltype REXXDIR allows user to change default ARexx directory.

CHANGES FROM SCREENFOOL 1.11U/1.10U (Internal revisions)

- * Memory loss fixes. All commands previously caused a loss of 520 bytes from the system.
- * Bug-fix in registered version's New Screen interface -- the colors slider now works correctly.
- * Main window now WA_SimpleRefresh again
(Pick a WA_#?Refresh attribute, any WA_#?Refresh attribute)
- * Newer Commodities 3.0-style interface
- * Fixed bug that unlocked window if hidden and reopened using AppMenu

CHANGES FROM SCREENFOOL 1.9U (8.2.93)

- * Recompiled with SAS/C Release 6.0 -- program slightly more efficient
 - * Tested on 68040-based system without problems
-

- * Internal cleanups too numerous to mention here

CHANGES FROM SCREENFOOL 1.8U (16.1.93)

- * Changed main window to WA_SmartRefresh
- * Added available memory to About... requester
- * Minor visual enhancements to About... requester
- * Properly attached Activate and Deactivate ARexx commands to their actual synonyms, UnlockGUI and LockGUI (Previously were attached to Hide and Show)
- * Added FONT and SIZE options to NEW command. See documentation for further details.

CHANGES FROM SCREENFOOL 1.7U (5.1.93)

- * Fixed bug that ate memory when an OpenPublicScreenA() failed.
- * Better error reporting of why screens don't open.
- * Makes window use SystemThin.font (included with ProWrite) if opened on a low resolution screen. If not available, uses topaz.font.
NOTE: SystemThin.font IS NOT REQUIRED TO USE SCREENFOOL.
- * Fixed bug with vertical spacing in gadgets in fonts other than 8 points wide (that's right, WIDE).

CHANGES FROM SCREENFOOL 1.6U (23.12.92)

- * Fixed bug that would make status information act weird on a screen with a font other than 8 points tall -- that was a weird one to fix.
- * Internal support for opening screens with different fonts (implemented via GUI for registered users) -- a command line option may be added later.
- * (Not really a change): Tested with low memory (EatMem) -- passes with flying colors (after your initial 40-50K load). Also tested using Mungwall, MemWatch, Drip, and EatCycles.

CHANGES FROM SCREENFOOL 1.5U (19.12.92)

- * ScreenFool now kills off less of your stack space -- 8K of stack is sufficient.
 - * New ARexx command - REQUESTERS [ON | OFF | TOGGLE] - choose to disable the ScreenFool requesters for asynchronous operation without a user present -- helpful if your ARexx macro might stop because of a missing NOGUI option.
-

* GETATTR MODES now includes the current Requesters mode.
