

Luminus

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Chapter 1

Luminus

1.1 Luminus: Table of Contents

Luminus
Version 0.2 (Beta)

Written by Paul A. Schifferer

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1.2 Luminus: Terms

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You may charge a fee to recover distribution costs. The fee for diskette distribution may not be more than the cost to obtain a public domain diskette from Fred Fish.

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SO THERE.

1.4 Luminus: Introduction

Introduction

I got to writing Luminus as a request from my wife, who enjoys designing ANSI pictures and animations, and after using TheDraw on her MS-DOS machine, found no suitable alternative for the Amiga. The few programs we ran across were sorely lacking in features and/or friendly operating interfaces. As I have recently learned, there are actually quite a few available, but alas, none that suit her particular tastes. And so was born Luminus.

Luminus' features include:

- Operates in any display environment (supports any screen display available in the display database).

- Amiga User Interface Style Guide compliant.
- On-line help (requires AmigaGuide).
- Built-in ARexx(tm) and Workbench App support.
- Supports all ANSI BBS codes.
- Ability to load and save IFF and ASCII files.

1.5 Luminus: System requirements

System requirements

Luminus requires version 2.04 or higher of the Amiga OS. It is designed to take advantage of some features available in higher versions, if they are available. As yet, Luminus does not have Locale support.

Luminus also requires a stack size of at least 16,000 bytes.

1.6 Luminus: Setting the stack size

From the Workbench

You can check that the icon's stack size is set properly by clicking once on the icon, then selecting Information from the Workbench's Icon menu. In the upper left corner of the Information window is an integer gadget marked "Stack:". If the value in this gadget is less than 16,000, click in it, change it to 16000, press Return, and click the button marked Save. Now you may run Luminus.

From the Shell

You can check this by entering

```
stack
```

at the prompt. This will tell you the size of your Shell's stack. If it's less than 16,000, then enter

```
stack 16000.
```

This will change the stack size so it's large enough for Luminus to run.

1.7 Luminus: Registration

Registration

Luminus is technically giftware. (I hate all the different -ware terms.) I

don't believe or subscribe to the current shareware philosophy. If I wanted (read: demanded) money for my work, I would release it as a commercial product. I've written and released this program in this form because I believe the Amiga is an awesome computer, and I want to lend my support to its (hopefully) long and glorious life. I want to make your use of the Amiga productive, efficient, and most of all enjoyable. All I want is a 'thank you' or 'great job'. (Of course, I don't object to receiving money :) (see below), but I'm not going to get nasty about it, like some other authors.)

But enough blithering; here's the bottom line: This program is NOT crippled in any way, shape or form, thus no fee is required to make it fully functional. You have it in all its splendor and glory. Use it, enjoy it. If you like it, send me a postcard, or a program you've written, or something to say 'thanks'.

If you want to, you can send me \$5US, which will get you the next release sent right to you. The money's only to cover disk and mailer costs (and a teeny profit :). Another \$5US will get you a nicely typeset, printed manual, done in FinalWriter(tm).

1.8 Luminus: My address(es)

The address to which you can send me money, postcards, a spare Amiga, or anything else is:

Paul A. Schifferer
515 11th Street
Edwards AFB, CA 93523
USA

I can also be contacted via Internet at:

gandalf@hughes.net

1.9 Luminus: Undocumented features

Undocumented Features

Some people call these things 'bugs'. If you happen to notice one of these little critters, let me know, please! I've done my best to make sure all the bugs were discovered and removed, but I can't find them all. If finances are favorable, I may send you the next release at my cost. (See Beta-Testers' Note.)

Please, if you send me bug reports, make sure to let me know the type of system you're running it on (CPU, RAM, etc.), which executable you were using, what other programs were running with it (especially commodities and system enhancers, since they tend to gum up the works sometimes), and what you were doing at the time of the bug occurrence/system crash.

1.10 Luminus: Beta-testers' note

Beta-Testers' Note

This release is in general distribution as a beta version. If you wish to be a beta-tester for future versions of this program, or for any other program I may release, drop me a postcard or e-mail. I will put you on the list of beta-testers, for which you will receive test-releases via Snail mail, FidoNet or the most cost-effective means for me to get the program to you.

1.11 Luminus: Acknowledgements

Acknowledgements

I'd like to thank the following people:

My wife, Michelle, who gave me the idea for this program, provided constructive critique during its development and pre-release testing and encouragement to continue when things got frustrating or bleak.

The authors of the Amiga ROM Kernel Reference Manual: Libraries. This was one of the most useful books I've ever picked up, and taught me a lot about programming the Amiga.

Stephen Provencher and Andrew Toth, who provided a lot of insight into programming in C, and always had another point of view.

EscomAG and Amiga Technologies GmbH, for breathing new life back into our beloved computer. May it prosper for another 10 glorious years and squash Microsoft! :P

Alex May, for Enforcer testing and some pretty nifty suggestions.

Patrick Gern, Celso Martinho, for comments, bug reports and suggestions.

My dog, Phantom, for being so well-behaved lately. :)

1.12 Luminus: Using Luminus from the Workbench

Using Luminus from the Workbench

Luminus requires a stack size of at least 16,000 bytes to run.

To start Luminus from the Workbench environment, simply double-click on its icon. Luminus' behavior can be modified by using ToolTypes. The following ToolTypes are supported:

SETTINGS=file	Lets you specify a particular settings file to use. You can supply the complete pathname here, or Luminus will use its current directory to find the file. If this file cannot be found or loaded, Luminus will resort to its stored internal defaults. The default file is Luminus.prefs.
---------------	--

NOTE: Any of the following ToolTypes will override the corresponding default loaded from the settings file.

CUSTOMSCREEN=name	This ToolType will signal Luminus to open on a custom screen (the default behavior). You must provide a screen name when using this ToolType. The custom screen opened will be a public screen, for use by other programs and identified by the name given. The default name is LUMINUS.
PUBSCREEN=name	Use this ToolType when you want to open Luminus on another program's existing public screen. The name you supply is the name of the screen on which to open. This ToolType may be specified in a project icon, and will be effective only for that document.
PORTNAME=name	Lets you specify an alternate basename for Luminus' ARexx port. Each document that you open in this invocation of Luminus will use this basename plus a numeric suffix, i.e., the first document opened will be called 'LUMINUS.0'. The default name is 'LUMINUS'. This ToolType, if specified in a project icon, will completely override the naming convention, and will be effective only for that document.
UNIT=number	This will specify the default Clipboard unit to use for cut, copy and paste operations. All documents opened will use this unit. The default unit is 0. This ToolType may be specified in a project icon, and will be effective only for that document.
IOBUFFER=size	This ToolType sets the size (in Kilobytes) of Luminus' internal input/output buffer. This buffer speeds access to and from disk. Setting this to 0 will disable the buffer. The default size is 16.
STARTUP=script	Specifying this ToolType tells Luminus to attempt to start execution of the specified ARexx script following its initialization. By default, no script will be started.

1.13 Luminus: Using Luminus from the Shell

The Shell

Before you start Luminus, you must make sure your Shell's stack size is at least 16,000 bytes or greater.

To start Luminus from the Shell, simply enter its name at the command line, and the program will begin execution. The following options are available from the Shell:

files	Anything typed on the command line that does not correspond to a supported command line option will be taken to be a file to be loaded. You may enter as many as you like that will fit into memory.
-------	--

SETTINGS file This option allows you to specify the settings file to use for this invocation of Luminus. You may enter a complete path specification with the filename.

NOTE: Any of the following ToolTypes will override the corresponding default loaded from the settings file.

CUSTOMSCREEN name Lets you set the name of the custom screen which Luminus is to open. When using this option, you must specify a name for the screen.

PUBSCREEN name Use this option when you want to open Luminus on another program's existing public screen. The name you supply is the name of the screen on which to open.

PORTNAME name Lets you specify an alternate basename for Luminus' ARexx port. Each document that you open in this invocation of Luminus will use this basename plus a numeric suffix, i.e., the first document opened will be called 'LUMINUS.0'. The default name is 'LUMINUS'.

STARTUP script Specifying this option tells Luminus to attempt to start execution of the specified ARexx script following its initialization. By default, no script will be started.

UNIT number This will specify the default Clipboard unit to use for cut, copy and paste operations. All documents opened will use this unit. The default unit is 0.

IOBUFFER size This option sets the size (in Kilobytes) of Luminus' internal input/output buffer. This buffer speeds access to and from disk. Setting this to 0 will disable the buffer. The default size is 16.

NOGUI Specify this option if you want Luminus to start without opening up its interface, i.e., no screens or windows. This option is useful if you are running an ARexx script that starts Luminus, modifies one or more documents, and exits without user intervention.

QUIET Using this option tells Luminus not to present its initial copyright banner. This option would most likely be used in conjunction with NOGUI.

1.14 Luminus: Operations

Operations

This chapter deals with various aspects of Luminus, like its modes of operation, basic editing information and general behavior of the software.

- Editing modes
- Drawing modes
- Line types

Cursor directioning
AppIcon, AppMenuItem, & AppWindows
General editing
Error codes

1.15 Luminus: Operations/Editing modes

Editing Modes

Currently, there are two editing modes available in Luminus. The modes are fairly versatile, and allow switching between them "on-the-fly." Their attributes and details are discussed below.

Page Mode

Page Mode is an editing mode that is used for editing static ANSI images of one or more pages. Subsequent pages in the document are generally images in a later stage, much like a flipped-page cartoon is made up of a series of static images that when moved through rapidly simulate animation. This allows page mode to have a crude, page-sized animation.

Cels edited on the page are directly overwritten, replacing the old cel on that page.

You can have as many pages as can fit in memory in your documents.

When Page mode documents are saved, the cels are saved in displayed-order.

Animation Mode

Animation Mode is an editing mode that allows you to create fine-tuned animations using ANSI escape sequences for cursor positioning and screen control.

When you type characters in, or insert cels, everything is saved in the sequence in which it is entered.

There are no pages in this mode. Overwritten cels are not replaced in the document, but are remembered and simply hidden behind the newer cels. A way exists to edit existing cels, though, so if you do make a mistake, it is possible to correct it without having to waste additional cels to "hide" it.

1.16 Luminus: Operations/Drawing modes

Drawing Modes

While Editing Modes affect the way cels are stored in the document and later saved to disk files, Drawing Modes affect how they are created and placed into the document. There are two Drawing Modes available at this time. (I have two more under development right now.) These are discussed below.

Text Mode

This mode is pretty much the "standard" drawing mode. Typed text is placed into the document (according to the Editing Mode), and cursor movements are simply that. You can change the colors and text attributes and all that during your editing.

Attribute Mode

This mode acts basically the same as Text Drawing Mode as far as typing in text is concerned. Where this one differs is in the way cursor movement is handled. The cursor keys still move the cursor around the same as normal, except that the cel at the destination position of the cursor is changed. A set of Attribute Mode Flags are available that determine how the cel is changed. Currently, there are three flags:

Change foreground? - this flag, if set, means that the foreground color of the affected cel is changed to the current foreground color.

Change background? - this flag, if set, means that the background color of the affected cel is changed to the current background color.

Change attributes? - this flag, if set, means that the text attributes of the affected cel are changed to the current text attributes.

If in Animation Editing Mode, the cel isn't actually changed, but a copy is made with the new colors and/or attributes and placed in that position.

1.17 Luminus: Operations/Line types

Line Types

Luminus supports the use of several line types that assume an IBM-style font is being used. The line types are known as Single, Double, Single-Double and Double-Single. (Pretty descriptive, eh?) The Single line type is a collection of line pieces that are single width lines both horizontally and vertically. The Double line type is the same except that the line pieces are double parallel lines. The Single-Double and Double-Single line types use combined single and double-parallel lines. The first part of their name is the type of vertical line, the second part is the type of horizontal line.

Two additional line types are available that can be used with just about any font. They are Custom and Select. The Custom line pieces are defined in the Box & Line Settings panel. This allows you to define the pieces used in all parts of line drawing. The Select line type is a single character that is used to draw all parts of a line, whether horizontal, vertical, intersecting or whatever. Generally, when the line should be drawn, a requester is presented asking for the character to use for the line. There are some exceptions to this, such as ARexx commands for line or box drawing.

1.18 Luminus: Operations/Cursor directioning

Cursor Directioning

This is an interesting little feature, I think. Most text editors and word processors (or just about any kind of editor) process input text from left to right (or right to left, if the font is designed that way). But since Luminus is basically a ANSI text-based drawing program, it can come in handy to have the cursor move in other directions during a drawing function or whatever.

So Luminus supports flexible cursor directions. You can specify (separately) the desired vertical and horizontal directions of the cursor. The available directions for movement are:

Vertical dir.	Result
None	The cursor doesn't move vertically.
Up	The cursor moves upwards one character position.
Down	The cursor moves downwards one character position.
Horizontal dir.	Result
None	The cursor doesn't move horizontally.
Left	The cursor move to the left one character position.
Right	The cursor moves to the right one character position.

Vertical and horizontal directions can be combined to make angled cursor movement. And it's actually even possible to specify both as None and have the cursor not move at all!

1.19 Luminus: Operations/AppIcons, AppMenuItem & AppWindows

AppIcon, AppMenuItem & AppWindows

Luminus supports all three of Workbench library's App features. Each feature's implementation in Luminus will be discussed here.

AppIcon

By default, Luminus will display an AppIcon on the Workbench window upon start-up. This behavior can be changed via menu item or through the Operations Settings panel and saved in the settings file. Luminus' AppIcon has two behaviors.

Should you double-click on it, Luminus' screen will be brought to the front, and the current document's window will be brought to the front and activated.

You may also drop icons onto the AppIcon. Luminus will attempt to open a new document for each icon and load it. These are usually icons for documents, but Luminus will take anything and try to make sense of it.

AppMenuItem

This App feature places an item on the Tools menu in the Workbench's menu structure. Selecting this menu item will cause Luminus' screen to pop to the

front, and the current document's window to be brought to the front and activated.

AppWindow

Each document that Luminus opens up, it will attempt to attach an AppWindow. The AppWindow enables you to drop icons into the document's window (only while it is opened on the Workbench screen), which will tell Luminus to overlay the files to the document. Note that if multiple icons are dropped in one window, Luminus will attempt to overlay all of them onto the document on which they were dropped.

1.20 Luminus: Operations/General editing

General Editing

This section covers the miscellaneous editing commands and keystrokes, such as cursor keys with qualifiers, the Help key, and the numeric keypad.

The numeric keypad

Just about all the programs I've used on the Amiga, if they've made use of the numeric keypad, have used it in one mode only. (The only exception to this has been WordPerfect(tm) for the Amiga.) It's either used just for numbers (its default behavior), or for cursor movement (like SAS/C's editor), but never for both. Luminus doesn't suffer from this oversight. The status line of each document may reflect the current state of the numeric keypad. If it is in "number mode", 'Num' shows in the status line. If it's in "cursor mode", nothing shows. You can switch between these modes by pressing the NumL key (marked on the front of the '(' key on the numeric keypad) in combination with either Shift key.

Number mode

In this mode, the keys act as they are labelled on the top, i.e., numbers, the symbols '(', ')', '/', '*', '-', '+', '.', and the Enter key.

Cursor mode

In this mode, the keys act as they are labelled on their fronts, while the Enter key works as in "number mode." See the section below, Cursor keys, for information on the behavior of the cursor keys. The key marked 'Ins' (keypad 0) toggles Insert mode on and off. The key marked 'Del' (keypad .) acts like the Delete key (next to Help). The '+' and '-' keys act normally. The keys marked '5', 'NumL' (except when Shifted), 'ScrL', and 'PrtSc' do nothing.

Help key

The Help key is active in Luminus. Pressing it tells Luminus to execute the AmigaGuide on-line help system. Luminus' help system is context-sensitive, so pressing the Help key within a subwindow will bring up the help file at the appropriate place.

There is one exception: pressing the Help key in the menu gives a brief description of that menu item.

Cursor keys

The arrow keys (and their counterparts on the numeric keypad, when not NumLocked), when unqualified, do normal cursor movement, i.e., left, right, up, down. When Shifted, the keys still behave as normal, but will extend an existing block in the appropriate direction. Following is a chart on the behavior of the keys with and without qualifiers.

Keystroke	What it does
Up arrow	Moves up one line
Down arrow	Moves down one line
Left arrow	Moves left one column
Right arrow	Moves right one column
Home	Move to the beginning of the line
End	Move to the end of the line
PgUp	Move up one windowful
PgDn	Move down one windowful
Control + Up arrow	Moves to the top of the document
Control + Down arrow	Moves to the bottom of the document
Control + Left arrow	Move to the absolute beginning of line
Control + Right arrow	Move to the absolute end of the line
Control + Home	Move to the top-left corner of the document
Control + End	Move to the bottom-right corner of the document
Control + PgUp	Move to the top line of the document
Control + PgDn	Move to the bottom line of the document
Alt + Up arrow	Delete the current line, move all lower lines up
Alt + Down arrow	Insert a blank line
Alt + Left arrow	Delete the current column, move all right columns over
Alt + Right arrow	Insert a blank column
Alt + Home	Move to the top of the window
Alt + End	Move to the bottom of the window
Alt + PgUp	Move up one windowful, cursor doesn't move
Alt + PgDn	Move down one windowful, cursor doesn't move

1.21 Luminus: Operations/Error codes

Error Codes

Standard AmigaDOS defines a set of general error codes that are normally returned from a called task or process that indicate the state under which the program exited. The are normally 0 (normal exit, no errors), 5 (warning), 10 (error) and 20 (failure). Luminus defines a set of specific error codes that may be reeturned from the program itself to a Shell process, or from ARexx commands to the ARexx script in the variable rc.

Following is Luminus' error code listing. Several codes are referred to in some chapters by a name. This name is given in parentheses after the error code's meaning.

NOTE Luminus defines failure codes beginning at 50. Code 0 indicates everything is okay and codes 1 through 49 are informational codes which are used internally; you will never see them.

Code	Meaning
------	---------

```
0      Okay
50     General (undefined) failure
51     Unable to open file
52     Unable to save file
53     IFF error
54     Unable to open clipboard
55     Insufficient memory
56     Unable to lock public screen
59     Unable open window
60     Unable to lock directory
61     Unable to create port
62     Unable to create AppWindow
65     Wrong library version
68     Unable to create icon
69     Not enough screens
70     Unable to switch screens
71     Document in limbo
74     Unable to find cel
75     Invalid screen pointer
77     Invalid box dimensions
79     Invalid margins
80     No text
81     Out of dimension
82     Unable to open screen
83     Unable to open font
84     No such command
85     Invalid parameter (INVALID_PARAMETER)
87     Unable to open document
88     Command not available (COMMAND_NOT_AVAILABLE)
89     Unable to execute command
90     Unable to load settings
91     OPTIONS RESULTS not set in script (OPTIONS_RESULTS_NOT_SET)
```

1.22 Luminus: Menus

Menus

This chapter deals with Luminus' menu structure and operation.

```
Project
Edit
Document
Text/Graphics
Page
Animation
Windows
Settings
Tools
```

1.23 Luminus: Menus/Project

Project Menu

New

Selecting this menu item causes Luminus to open a new document, complete with its own window.

Holding down either Shift key while selecting this item tells Luminus that you want to specify the screen on which the new document is opened.

Open...

This menu item lets you open up an existing document for editing. The ASL file requester is opened for you to select a file or files to open. Multi-selection is enabled in the file requester, so you can choose as many files as you like to open, provided there is enough available memory for them all!

Holding down either Shift key while selecting this item tells Luminus that you want to specify the screen on which the document(s) is (are) opened.

Re-open...

This menu item allows you to reload from disk the current document. This is useful if you have made numerous changes to the document and just want to go back to your original starting point.

You will be prompted to make sure this is really what you want to do, since you can't recover any changes that were made once the document is reloaded.

Overlay...

This menu item allows you to choose a file or files to overlay onto the existing document using the ASL file requester. Multi-selection is enabled in the requester, and all files selected will be appended to the current document.

Save

This menu item allows you to save the current document to disk. If there is no current filename or the filename is "Untitled", you will be prompted for one via the ASL file requester. Otherwise, the document is just saved.

Holding down either Shift key will bring up the Save Panel, so you may alter the save parameters before saving the file. You can have the Save Panel come up automatically for every save attempt by enabling the Save Prompt gadget in the File Settings Panel.

This item is ghosted if no changes have been made since the last save.

Save as...

This menu item allows you to save the current document to disk under a different name than its current one. An ASL file requester is presented for you to choose the directory and filename.

Holding down either Shift key will bring up the Save Panel, so you may alter the save parameters before saving the file. You can have the Save Panel come

up automatically for every save attempt by enabling the Save Prompt gadget in the File Settings Panel.

Close

Selecting this item causes the current document to close, shutting down its window and freeing all memory associated with it. If the document was modified since its last save, you will be prompted for verification to close the document.

If the last document open is closed, Luminus will shut down as if you had selected Quit.

About...

This menu item brings up an informational window, giving you the low-down on Luminus. It also informs you of the ARexx port name of the current document.

Help...

Selecting this item tells Luminus to activate its on-line-help feature. In order for on-line-help to work, the AmigaGuide file (a file of the same name as the program ending with the extension '.guide') must be in either the same directory as the program, or the logical directory HELP:. Pressing the Help key on the keyboard has the same effect.

Quit

You want to completely shut down Luminus. This item causes that to happen, no matter how many documents are open. Holding either Shift key while selecting this item will suppress the 'are you sure?' requester.

Luminus will normally inform you if any opened documents have been modified since their last save, and give you a chance to save them. Holding either Alt key will suppress this requester.

1.24 Luminus: Menus/Edit

Edit Menu

Cut

Cut grabs from the currently blocked area of the document, removing its cels to the clipboard you have specified for the document. Luminus will store the data to the clipboard in IFF format, according to the type you specify, either FTXT CHRS, which can usually be read by text editors and the console device, and ANSI CEL, a compact proprietary format that Luminus uses.

The blocked data is removed from the document in the same manner as Erase.

This item is only enabled when a block is selected in the document.

Copy

Copy grabs from the currently blocked area of the document, duplicating its

cels to the clipboard you have specified for the document. Luminus will store the data to the clipboard in IFF format, according to the type you specify, either FTXT CHRS, which can usually be read by text editors and the console device, and ANSI CEL, a compact proprietary format that Luminus uses.

The blocked data is left in the document and the block is deselected when the copy is complete.

This item is only enabled when a block is selected in the document.

Paste

Choosing this item will cause Luminus to grab whatever is in the specified clipboard for the current document (each document may specify a different clipboard unit number), and paste it at the cursor position. Luminus understands IFF clips of type FTXT CHRS and ANSI CEL. No other types are supported.

Erase

Selecting Erase will removed all blocked cels from the document without pushing them onto the clipboard. The rest of the document is left intact (see Delete below).

This item is only enabled when a block is selected in the document.

Delete

Delete does somewhat the same as Erase, removing all blocked cels from the document without pushing them onto the clipboard. The difference is that anything to the right of the deleted block is moved over to fill in the space vacated by the removed cels. Erase simply leaves the area blank, Delete attempts to fill it in.

This item is only enabled when a block is selected in the document.

Clear

This sub-menu allows you to do global clears in the document.

Current page

This sub-item will remove all cels from the current page, rendering it blank. You will be asked to verify your choice.

This item is ghosted in Animation Editing Mode.

Document

This sub-item removes every cel from the entire document. You must verify your choice.

Column

This sub-menu provides you with items for manipulating columns, i.e., inserting and deleting.

Insert

This sub-item causes Luminus to insert a blank column at the current

cursor position for the entire height of the document. All columns to the right are moved over.

Note that any columns that are moved beyond the boundaries of the document are not lost, but may not be saved with the file, and are not displayed until they are moved back into the document's boundaries.

Delete

This sub-item causes the column at the cursor to be irretrievably removed from the document, and all columns to the right are moved over to fill its space.

Line

This sub-menu provides you with items for manipulating lines, i.e., inserting and deleting.

Insert

This sub-item causes Luminus to insert a blank line at the current cursor position for the entire width of the document. All lines below are moved up.

Note that any lines that are moved beyond the boundaries of the document are not lost, but may not be saved with the file, and are not displayed until they are moved back into the document's boundaries.

Delete

This sub-item causes the column at the cursor to be irretrievably removed from the document, and all columns to the right are moved over to fill its space.

Replace...

This menu item brings up the Replace panel so that you can search for and replace cells in the document.

1.25 Luminus: Menus/Document

Document Menu

Use border?

This is a toggle item that determines if the current document's window will be drawn with the standard Intuition border (and all appropriate gadgets, including scroll bars). When the state of this item is changed, the document's window is closed and reopened accordingly.

Show status line?

This is another toggle item, which determines whether the document's status line will be rendered. If so, it is placed at the top or bottom according to the Status line at top? option in the Document Settings panel.

Ruler

This sub-menu controls the ruler and its display aspects.

Display?

When this item is checked, two lines, one vertical, one horizontal, are displayed, intersecting at the current mouse position. The ruler is automatically and temporarily disabled when the mouse pointer is outside the boundaries of the drawing area of the active document window.

Hash marks?

With this item checked, the ruler is displayed with vertical or horizontal hash marks along each of its beams, placed at character intervals so they would intersect the midpoint of each character row or column. If the ruler Display? item is not checked, this item will be ghosted.

Numbers?

With this item checked, the ruler is displayed with position numbers drawn at a user-specified interval (which can be set in the Document Settings Panel). Each number is drawn either above or to the left of its respective hash mark. Should the ruler come close to the left or top drawing boundaries of the window, numbers may not be displayed that won't fit into the display wholly. If the ruler Display? and Hash marks? items are not checked, this item will be ghosted.

Edit mode

This sub-menu's items are the available editing modes in Luminus. Each mode is discussed below. For details on Luminus' editing modes chapter.

Page

This sub-item causes Luminus to revert to Page Editing Mode. Since an existing animation can get severely damaged, i.e., certain portions of the animation may be lost, by switching to this mode, your choice is verified before any real action is taken.

Animation

This sub-item causes Luminus to revert to Animation Editing Mode. Since switching to this mode makes no changes to the document's contents, as switching to Page Mode might do, no verification is necessary.

Draw mode

This sub-menu's items are the available drawing modes in Luminus. Each mode is discussed below.

Text

This is the normal drawing mode. Text is rendered normally and cursor movements are treated as only that.

Attribute

This mode is a unique drawing mode. Text can entered as in Text Drawing Mode, but cursor movements are handled in an entirely different manner. Depending on the attribute mode flags set, moving the cursor over cels can change their colors or attributes.

Line type

This sub-menu contains the various line types with which Luminus may render boxes and lines. Each line type is briefly discussed below.

Single

This line type is a single vertical or horizontal line, including corners and intersecting pieces. This type assumes an IBM-style font.

Double

This line type is a double vertical or horizontal line, including corners and intersecting pieces. This type assumes an IBM-style font.

Single-Double

This line type is rendered using single vertical and double horizontal lines. Corners and intersecting pieces are drawn with respect to these types. This type assumes an IBM-style font.

Double-Single

This line type is rendered using double vertical and single horizontal lines. Corners and intersecting pieces are drawn with respect to these types. This type assumes an IBM-style font.

Custom

This line type's pieces are rendered according to the ASCII codes set up in the Box & Line settings panel. This type assumes no particular font, but may be set up according to any font.

Select

This line type's pieces are rendered using a single ASCII code, which is requested at the time of the line drawing. This type assumes no particular font.

Attribute mode flags

This sub-menu contains some toggle-items that control how Attribute Drawing Mode will affect existing character during cursor movement.

Change foreground?

If this item is checked, Attribute Drawing Mode will affect the foreground color of all cels the cursor passes over during cursor movement.

Change background?

If this item is checked, Attribute Drawing Mode will affect the background color of all cels the cursor passes over during cursor movement.

Change attribute?

If this item is checked, Attribute Drawing Mode will affect the character attribute of all cels the cursor passes over during cursor movement.

Vertical movement

This sub-menu controls the vertical movement of the cursor during text entry. This movement is in conjunction with the horizontal movement (below), thus allowing such really cool effects as angled cursor movement.

None

When this item is enabled, the cursor makes no vertical movement during text entry. This is the default behavior.

Up

This item causes the cursor to move upward after each character is entered.

Down

This item causes the cursor to move down after each character is entered.

Horizontal movement

This sub-menu controls the horizontal movement of the cursor during text entry. This movement is in conjunction with the vertical movement (above), thus allowing such neat-o dog effects as angled cursor movement.

None

With this item checked, the cursor makes no horizontal movement after text entry.

Left

This item cause the cursor to move to the left after each character entered.

Right

This item causes the cursor to move to the right after each character entered. This is the default behavior.

1.26 Luminus: Menus/Text Graphics

Text/Graphics Menu

Attribute

This sub-menu affects the current drawing colors and attributes.

Foreground color...

Background color...

Selecting one of these two menu items brings up a requester that prompts for the desired color to which to change.

Plain

Bold

Italics

Underline

Blink

Inverse

Concealed

These items toggle the various text attributes on and off, with the exception of Plain, which clears all other attributes. A checked item is enabled.

At cursor

This menu item grabs the colors and attributes of the cel underneath the cursor and makes them the current values.

Cycle colors

Color cycling is the ability for Luminus to change foreground and/or background colors 'on-the-fly', as you are entering text, making for some very interesting (and psychedelic) effects. Luminus cycles forward through the available colors, looping around to the first color when it reaches the end of the list.

Foreground

This item toggles the state of foreground color cycling. A checked item indicates that cycling is enabled. Luminus will affect the Bold attribute during color cycling, in order to take advantage of the full range of ANSI colors, shutting the attribute off or turning it on as needed.

Background

This item toggles the state of background color cycling. A checked item indicates that cycling is enabled. Background color cycling only cycles through the first eight background colors, keeping within the ANSI specification.

Text...

Selecting this menu item brings up the Text panel, which allows you to enter multiple lines of text, which may be left-, center- or right-justified according to any specified dimensions, and may optionally have a box or bevel box rendered around it.

The Text panel is a non-blocking window, and remains open until it is explicitly closed by clicking on its window's close gadget or Close button. By 'non-blocking', I mean that input is not blocked to any document's window, so you can keep entering things into the document.

Draw box

This item causes a box to be drawn using the currently selected block as its dimensions. The box is drawn using the current colors (including color cycling) and attributes.

This item is ghosted if a block is not selected.

Draw bevel box

This sub-menu causes a bevelled box to be drawn using the currently selected block as its dimensions. The box is drawn using the current background color (including color cycling) and attributes. Its foreground color is rendered to give it a raised or recessed appearance, according to the sub-item chosen.

Raised

This sub-item specifies that the bevel box should have a raised appearance.

Recessed

This sub-item specifies that the bevel box should have a recessed appearance.

Insert

This sub-menu allows you to insert ANSI codes into the document that are not possible directly from the keyboard.

Custom ANSI code...

This sub-item brings up a string requester that allows you to enter the guts of an ANSI code. As the requester indicates, do not type in the escape character and opening bracket ([), as these are assumed and added for you when the file is saved. Custom codes are ignored during normal display.

Clear screen...

This sub-item presents a color requester from which you pick a background color with which to clear the screen.

1.27 Luminus: Menus/Page

Page Menu

This menu and its items are only available in Page Editing Mode.

New page

This sub-menu lets you add pages to your document, thus allowing a static image multiple pages. There is no limit (other than available memory) to the number of pages you can add to the document.

Append

Selecting this item causes Luminus to create a new empty page at the end of the document.

Insert

This menu item inserts a new empty page at the current page, moving all subsequent pages back.

Delete page

This item allows you to delete an entire page of an image. This data will be irretrievably lost, so Luminus will verify your desire to delete the page. If there is only one page in the document, this item will be ghosted, as you cannot delete the last remaining page (you may as well close the document!).

Previous page

This item moves to the previous page in the document. If there is no previous page, this item will be ghosted.

Next page

This menu item moves to the next page in the document. If there is no next page, this item will be ghosted.

1.28 Luminus: Menus/Animation

Animation Menu

This menu and its items are only available in Animation Editing Mode.

Display...

Selecting this menu item tells Luminus to re-display the current animation sequence from the first entered cel to the last. You will be prompted for a delay time. Delay values are in 100ths of a second, i.e., a value of 100 is 1 second delay between each cel displayed.

Any input events (such as keystrokes, mouse-clicks, etc.) encountered during the animation display are considered interruptions, and cause the animation to stop its sequential display. The finished image is then calculated and drawn on the screen. This is useful for interrupting long animation sequences, or inadvertently long delay times.

Insert pause

This sub-menu allows you to insert a pause into the animation sequence (so that you can stop and admire your work). Two different types of pauses are available.

Key

This flavor of pause waits for a keystroke or mouse-click before continuing with the animation sequence. If the document's window is bordered, even clicking on the close gadget counts toward it. Note that only one input event is consumed when this pause executes, and any events before or after are considered interruption events (as discussed above under the Display... menu item).

Timed

This pause, when executed, wait for a specified length of time before continuing with the animation sequence. You are prompted for a delay time. Delay times are in 100ths of a second, i.e., 100 is a 1 second delay.

Edit cel...

This item brings up the Edit Cel panel. From this panel you may edit individual aspects of existing cels in the animation sequence.

1.29 Luminus: Menus/Windows

Windows Menu

Attribute

Selecting this menu item tells Luminus to open up the Attributes interactive support window. If the window is already opened, but is partially or wholly covered by other windows, it will be moved to the front. If the window is opened on another screen, it will be closed and reopened on the screen on which the summoning window is opened.

This window provides a convenient method by which you may edit the current colors and text attributes of your documents. This window always reflects the current settings of the currently active document.

Switches

Selecting this menu item tells Luminus to open up the Switches interactive support window. If the window is already opened, but is partially or wholly covered by other windows, it will be moved to the front. If the window is opened on another screen, it will be closed and reopened on the screen on which the summoning window is opened.

This window provides a convenient method by which you may edit the modes and miscellaneous attributes of your documents. This window always reflects the current settings of the currently active document.

Character set

Selecting this menu item tells Luminus to open up the Character Set interactive support window. If the window is already opened, but is partially or wholly covered by other windows, it will be moved to the front. If the window is opened on another screen, it will be closed and reopened on the screen on which the summoning window is opened.

This window provides a convenient method by which you may enter character not directly available from the keyboard, or characters for which you may not remember the keystrokes, into your documents.

Refresh

This menu item causes Luminus to do a total refresh of the currently active window. Its border, gadgets, status line and other miscellaneous items, as well as the actual display, are completely redrawn. This item can come in handy if one of your windows is graphically damaged, and the Amiga's display refresh routines or Luminus' internal refresh routines don't catch it.

Jump screen...

This menu item brings up a scrolling list requester with all the available, open public screens. From this list you may select a public screen on which you wish the current window to be reopened. If you click the 'Move all windows' checkbox so it is checked, then all windows, no matter what screen, will be reopened on the desired screen.

Selecting this item while holding either Shift key will cause the current window to reopen on the next screen in the public screen list, whichever that may be. No requester is presented.

To front

This item will move the current window in front of all other windows on the screen. It is available for when the document's window doesn't have a depth gadget (which is the default) or it is obscured.

To back

This item will move the current window behind all other windows on the screen,

except backdrop windows (see your AmigaDOS manual for information on backdrop windows). It is available for when the document's window doesn't have a depth gadget (which is the default) or it is obscured.

Zoom window

Selecting this menu item causes the window to behave as if its zoom gadget had been selected, switching between its zoomed size and position and its regular size and position. It is available for when the document's window doesn't have a zoom gadget (as when the window is rendered borderless) or it is obscured.

1.30 Luminus: Menus/Settings

Settings Menu

Create icons?

This item's state determines whether document's will be saved with icons or not. It is a global flag and affects all documents opened in this invocation of Luminus.

Use AppIcon?

This item's state determines whether Luminus' AppIcon will be presented on the Workbench window or not. It is a global flag and affects all documents opened in this invocation of Luminus.

Use preset color

This sub-menu allows you to choose from predefined color sets. These color sets are only available if you are using a custom screen in Luminus, and will only affect that screen. This entire sub-menu is disabled if no custom screen is being used.

A2024

Selecting this sub-item changes the custom screen colors to a color set optimized for the A2024 monitor. This color set assumes an 8-color screen. A screen of fewer colors will not look right, and a screen of more colors will only have the first 16 changed.

Amiga

Selecting this sub-item changes the custom screen colors to the standard Amiga-style colors. This color set assumes an 8-color screen. A screen of fewer colors will not look right, and a screen of more colors will only have the first 16 changed.

ANSI

Selecting this sub-item changes the custom screen colors to the standard ANSI colors. This color set assumes a 16-color screen. A screen of fewer colors will not look right, and a screen of more colors will only have the first 16 changed.

EGA

Selecting this sub-item changes the custom screen colors to the standard

EGA colors. This color set assumes a 16-color screen. A screen of fewer colors will not look right, and a screen of more colors will only have the first 16 changed.

From Workbench

Selecting this sub-item grabs the current colors from the Workbench screen and plugs them into the custom screen.

Display...

Selecting this menu item brings up the Display Settings panel, from which you can edit aspects of Luminus regarding the display, such as screen mode, dimensions, depth, and other things.

If the screen mode, dimensions, depth, or font are changed in the panel, Luminus will attempt to close and re-open its custom screen. Any document windows on this screen are temporarily closed, and after the screen is re-opened, Luminus will attempt to re-open those windows. Make sure any visitor windows are closed.

This panel, as well as the four other Settings panels, are non-blocking windows. That is, you can keep entering text into any document's windows while having one or more of the Settings panels open. (I'm not sure how practical it is, but it's neat, don't you think?)

Operations...

Selecting this menu item brings up the Operations Settings panel, from which you can edit the operational settings of the program.

File...

Selecting this menu item brings up the File Settings panel, from which you can edit the file settings of the program.

Document...

Selecting this menu item brings up the Document Settings panel, from which you can edit the document settings of the program.

Boxes & lines...

Selecting this menu item brings up the Box & Line Settings panel, from which you can edit the box and line settings of the program.

Restore defaults

This menu item tells Luminus to disregard the currently loaded settings and revert to its internal defaults. These are the same defaults used if no settings file is located upon program start-up.

Save settings

Selecting this menu item saves the current settings to disk. The settings file will be saved in the directory from which it was loaded. If the file wasn't loaded, it will be saved into the program's directory. If the file can't be saved there, it will be saved in the ENVARC: and ENV: directories.

Save settings as...

This menu item prompts for a path and file name for the settings file, and saves the current settings to disk.

Load settings...

This menu item brings up an ASL requester for you to select a settings file to be loaded.

1.31 Luminus: Menus/Tools

Tools Menu

Shell window...

Selecting this menu item causes Luminus to attempt to bring up a shell window, using the Console Specification. The Console Specification may be changed in the Operations Settings Panel.

Execute script...

This menu item brings up a string requester in which you input the name of the AmigaDOS script to be executed. If no path is entered, the S: directory is assumed.

ARexx script...

This menu item brings up a string requester in which you input the name of the ARexx script to be executed. If no path is entered, the REXX: directory is assumed.

1.32 Luminus: Control Panels & Windows

Control Panels & Windows

The purpose of this chapter is to explain the operation of various windows that may pop up during certain activities in Luminus. The general purpose of these windows is examined, followed by a description of each window's gadgets and their purpose. There are three different types of windows in Luminus, not counting document windows.

The first kind are called interactive support windows. What this means is that, unlike other windows, this window does not block input into the document window from which it was summoned, but remains open in conjunction with all document windows, and reflects the current settings of the active document. As the active document is changed, usually by clicking in its window, all interactive support windows are updated to reflect the settings of that newly active document. Interactive support windows' positions are saved in the settings file.

The second type of window is the control panel. These are windows that open up, usually with several gadgets, that allow you to change, control, and in some cases, 'fine-tune' the action that you have chosen. Input to the document window that summoned the control panel is not blocked (exceptions will be noted) while the window is opened.

The final type of window is the requester, of which there are two sub-types. The first is the standard informational/query requester. These are basically the same as standard Intuition requesters. They provide you with some (essential) information or prompt you for a response, and have one or more button gadgets at the bottom of the window to respond to the query. The second sub-type are specialized, each kind asking for information that cannot be gathered using a few sentences and some buttons. These are discussed in detail.

1.33 Luminus: Control Panels & Windows/Interactive support windows

Interactive support windows

- Attributes
- Switches
- Character set

1.34 Luminus: Control Panels & Windows/Interactive support windows (Attributes)

Attributes Window

The Attributes window allows you to control current drawing colors and attributes as an alternative to using the menu system. The following gadgets are available in the Attributes window:

Foreground

This palette gadget reflects the current foreground color of the active document. Clicking on a color will change the active foreground color of that document to the color chosen. This gadget only allows access to the first eight colors of the screen palette. This is due the way ANSI foreground colors are displayed. To access the bright equivalents, simply click the Bold gadget so it is checked.

Background

This palette gadget reflects the current background color of the active document. Clicking on a color will change the active background color of that document to the color chosen. This gadget only allows access to the first eight colors of the screen palette. This is due to the fact that the ANSI specification only supports the eight dark colors for background display.

Cycle?

A checkbox gadget labelled 'Cycle?' is located beneath each palette gadget. Each corresponds to the color cycling facility of the fore/background colors. If the box is checked, color cycling is enabled. Enabling color cycling causes Luminus to move through the available spectrum of colors, circling back around to the beginning when the end is reached. Colors are cycled during

text-entry, whether interactive or ARExx-induced, during attribute drawing, and is respected by the box and line drawing routines.

Plain

Pressing this button causes the currently set attributes to be cleared. It is basically provided as a convenience to having to deselect each attribute.

Bold/Italics/Underline/Blink/Inverse/Concealed

These checkboxes control the various attributes available in the ANSI specification for text display. A checked box indicates an active attribute.

NOTE

Some attributes may not be displayable on some computers. For instance, the ANSI blinking attribute cannot be displayed on the Amiga, while underline and italics are normally not displayed on MS-DOS machine standard text displays.

1.35 Luminus: Control Panels & Windows/Interactive support windows (Switches)

Switches window

The Switches window allows you to control current editing and drawing modes, line types and cursor movement as an alternative to using the menu system. The following gadgets are available in the Switches window:

Edit mode

This cycle gadget allows you to choose from the available editing modes, which are currently Page and Animation. Switching from Animation mode to Page mode can ruin a perfectly good animation, so your choice is verified before any real action is taken.

Draw mode

This cycle gadget allows you to choose from the available drawing modes, which are currently Text and Attribute.

Line type

This cycle gadget allows you to choose from the available line types.

Vertical

This cycle gadget selects the vertical direction the cursor will move during text entry.

Horizontal

This cycle gadget selects the horizontal direction the cursor will move during text entry.

Change fgnd.

This checkbox gadget's state determines whether foreground colors will be affected during Attribute mode drawing.

Change bgnd.

This checkbox gadget's state determines whether background colors will be affected during Attribute mode drawing.

Change attr.

This checkbox gadget's state determines whether character attributes will be

affected during Attribute mode drawing.

1.36 Luminus: Control Panels & Windows/Interactive support windows (Character Set)

Character Set window

The Character Set window allows you to view and access the entire character set for the font you have chosen for text editing. This font is distinctly different from the screen font. Program-related stuff is displayed in the screen font, while the actual document text is displayed in the text font, which is shown here.

Since many of the characters in a font are not accessible from the keyboard, this window allows you to simply click on one of those characters and insert it in the document at the cursor position. A scroll bar is located at the far right of the window, allowing you to peruse the available characters.

At the far left, there is a gap between the window's edge and the first column of characters. This space is provided for the current row marker. This marker is a dark red (in the ANSI color set) box positioned on the current row. Note that the current row is an absolute position, and may not be visible if the scroll bar is used to scroll through the character set. Clicking the mouse in the area to the left of a row of characters will cause that to become the current row.

From any active document window, the eight characters in the current row may be accessed by pressing any of the function keys, F1 through F8. Pressing function keys F9 or F10 will decrement or increment, respectively, the current row.

1.37 Luminus: Control Panels & Windows/Control panels

Control Panels

- Save
- Edit cel
- Text
- Replace
- Display settings
- Operations settings
- File settings
- Document settings
- Box & Line settings

1.38 Luminus: Control Panels & Windows/Control panels (Save)

Save Panel

This panel allows you to specify the save parameters of a file before actually saving it.

Save type

This cycle gadget allows you to change the type of file that will be saved. The choices available are ANSI, IFF, and ASCII. Note that the ASCII type is not available when saving a file in Animation Editing Mode.

The ANSI type indicates that Luminus will save the file in standard ASCII format with embedded ANSI codes for color, cursor movement, etc., as appropriate.

The IFF type indicates that the file will be saved in IFF format, as specified by (the late) Commodore and Electronic Arts. There are two different IFF formats that Luminus understands. See the 'IFF type' gadget below for more details.

The ASCII type indicates that the file will be saved in standard ASCII format. ANSI codes will not be saved with the file. Again, this type is not available in Animation Editing Mode.

IFF type

This cycle gadget allows you to choose from the IFF formats that Luminus understands. The IFF formats currently supported are FTXT CHRS and ANSI CEL.

Line length

Specifies the maximum line length of a single line. Luminus will not exceed this value when saving to the file. Some BBS software only allow a message's lines to be a certain length, and since each character of an ANSI code generally counts toward this, Luminus will start a new line if the ANSI code would extend beyond this value. This prevents ANSI codes from being obliterated by a BBS's display routines. This gadget is ghosted (not available) in IFF save mode.

Video preparation

You may want the screen cleared before your animation is drawn, or the cursor to be placed at the top-left corner of the screen. This gadget allows you to pick from certain types of codes that may be saved with your file before the actual animation.

The video prep 'None' indicates that no codes should be saved first. The v.p. 'Home' will place a code that positions the cursor at the top-left corner ('home' position). The v.p. 'Clear screen' places a clear screen code before the animation.

End-of-line type

Since Amigas, DOS machines, Macintoshes and UN*X machines handle newlines differently, you can indicate that type of newline that will be saved in the file. The available types are 'CR only', 'CR + LF', and 'LF only'.

Use alt. escape?

This checkbox indicates whether you would like ANSI codes, which begin with an escape character (ASCII code 27), saved with an alternate escape character, which some BBS software use instead of the escape character. The string gadget next to the checkbox is where you indicate the alternate escape character. These gadgets are only available in ANSI save mode.

Filter solid spaces?

This checkbox tells Luminus whether or not to treat solid spaces (ASCII code 160) as normal spaces or leave them as they are.

Save

This button tells Luminus that you are satisfied with the current settings and want to proceed with the save operation.

Cancel

This button tells Luminus that you've changed your mind and don't want to save the file after all. Clicking on the window's close gadget is equivalent to clicking the Cancel button.

1.39 Luminus: Control Panels & Windows/Control panels (Edit cel)

Edit Cel Panel

This panel allows you to edit individual aspects of a cel. It provides finer control and the ability to edit existing cels in an animation sequence. Note that when this window is first summoned, the cel being editing is the topmost available cel in the animation sequence at that cursor position. There may be cels hidden beneath it. See the description below of the Prev and Next buttons for information on how to get to those cels.

This panel is only available in Animation Editing Mode.

Character

This string gadget shows the character at the current position. This gadget's character is shown in the screen font, as opposed to the text font, so the character may look different. Next to the string gadget is a display box that shows the actual character, given colors and attributes in the text font.

Foreground

Background

These two palette gadgets allow you to change the foreground and background colors of the cel.

Plain

Bold

Italics

Underline

Blink

Inverse

Concealed

The Plain button and all the attribute checkboxes here are the same functionally as the corresponding gadgets in the Attributes interactive support window.

Change

When you edit the colors and attributes of the cel in this window, you are only affecting a copy of the cel contents. Clicking on this button makes the changes take effect.

Prev

Next

Clicking on one of these two buttons causes Luminus to search further through the animation sequence for underlying cels at the cursor position. Next moves deeper into the layer, Prev shallower.

Done

Clicking on this button tells Luminus that you are done editing cels. The window will close, and any changes made to the animation will take effect.

1.40 Luminus: Control Panels & Windows/Control panels (Text)

Text Panel

This panel window comes up when you select 'Text...' from the Text/Graphics menu. It allows you to input one or more lines of text that may be justified in some manner and/or outlined. The following sections provide detail on the Text panel's gadgets.

Text

This scrolling list gadget allows you to enter the text that you wish to have displayed. Click on any line of text to edit it. When the panel is first opened, there will be no text in this list. You can enter new text by clicking on the 'Add' gadget (see below).

The string input gadget at the bottom of the list is where you actually enter the text. Press Enter when you are finished with that line, and the text will be placed in the list.

Add

Clicking on this button creates a new blank line at the bottom of the list of text and activates the string gadget.

Delete

Clicking this button causes the currently selected line of text to be deleted from the list. Once deleted, the text is irretrievably gone. If this list is empty, this button will be ghosted.

Clear

Clicking on this button will clear the entire list of text. You will be asked to confirm this, since once the text is gone, you can't get it back (except by retyping all of it!).

Line type

This cycle gadget allows you to select the type of line that you would like to have surrounding your text. If you don't want a line, click this gadget 'til it reads 'None'.

Bevel

If you would like the line around your text to have a bevelled appearance, use this cycle gadget to select the bevel type. The two types available are 'Raised' and 'Recessed'. If you want a normal line, select a bevel type of 'None'. This gadget is ghosted if the line type is set to 'None'.

Justification

If you would like your text justified in the document, use this cycle gadget to specify the type of justification. The available types are 'None', 'Left',

'Center', and 'Right'. All the justification types obey the margin values on the Left and Right Margin gadgets (discussed below), except for 'None', which places the text at the current cursor position.

Left margin

Right margin

These two integer gadgets let you specify the margin values to use when using justification. They default to the left and right edges of the document, but you can change them to have text placed according to different settings. The margin values are bounds-checked against the document, and the left margin cannot exceed the right margin value.

For example, you have an ANSI image that takes up the left side of an 80-column wide document. If you want your text centered on the right hand side, you would set the justification to 'Center' and the margins to 41 for the left, and 80 for the right.

These gadgets are ghosted if the justification is set to 'None'.

Okay

When you click this button, Luminus will first check to see that the text you specified, taking into account line type, justification and margin values, will fit into the visible portion of the document. (The 'visible portion' is the total document size, not the part that is only displayed in the window. Luminus preserves cels that extend beyond the boundaries of the document's specified width and height.) If your specified text would go beyond the boundaries, you have the option of returning to the Text panel to make changes or to just tell Luminus to put it in the document anyway. This button is ghosted if the text list is empty.

Cancel

Clicking this button will abort the Text panel and return you to your document with no changes made.

1.41 Luminus: Control Panels & Windows/Control panels (Replace)

Replace Panel

This panel allows you to search for specific cels in the document, according to their character, colors, and/or attributes, and replace specific parts of said cels. This panel is divided into two sections, both with exactly the same gadgets. These gadgets will be discussed together.

This panel is non-blocking, and will remain open after a replace operation is completed, so that other documents may be affected. Also, the search/replace criteria are remembered even when the window is closed (only for the current session), and will be reinstated if the panel is opened again during the same editing session.

Character

This is the character to search for/replace. Only one character is allowed. The checkbox gadget to left of this gadget, when checked, indicates that the search should check for a character matching this one (Search for), and/or replace it with this character (Replace with). If you have this one checked,

make sure you have a valid character in the string gadget, otherwise you'll be searching for a NULL, which you'll never find!

Note that you don't have to have the corresponding gadget checked to use one of these, i.e., you can have it search for a character, but you don't have to replace it, or vice versa. For example, you can set it up to search for all cels that have a blue foreground, and tell it change their characters to '+'.

Foreground/Background

These two sets of gadgets control whether you want the search criteria to include the foreground/background color of the cel, and/or replace the cel's foreground/background color. Checking the checkbox to the left of these gadgets adds that aspect to the search/replace criteria. Search/replace gadget correspondence, as noted above, applies to these gadgets as well.

Attribute

These six checkbox gadgets correspond to the appropriate text attributes of the cel. Checking the checkbox to the left includes attribute checking in the search/replace criteria.

Note that at present, the search/replace is exclusive, i.e., cel attributes must match EXACTLY for the search, and are replaced completely by the replace attributes specified. This may change in the future.

All cels?

This checkbox determines whether Luminus will search/replace cels only in the top visible layer of the document, or all cels. This can be tricky, depending on the Editing mode you're in. For Animation mode, it affects all cels, buried or visible, in the document when checked, only the top layer when not. For Page mode, it affects all cels on all pages in the document when checked, only the current page when not.

Replace

This button starts off the search/replace operation.

Close

Use this button (or the close gadget) to close this window, since it will remain open between operations.

1.42 Luminus: Control Panels & Windows/Control panels (Display Settings)

Display Settings Panel

This panel deals with the basic Intuition display aspects of Luminus, such as screenmode, colors, etc. Each of the gadgets used in this panel are discussed below.

Screenmode list

This scrolling list gadget presents the available screenmodes with which you may open a custom screen. Simply click on the desired mode for the custom screen. The standard dimensions for that mode will be plugged into the Width, and Height gadgets (discussed below). Luminus will always attempt to set the screen depth at 4 bitplanes (16 colors). If the specified screenmode doesn't

allow it, Luminus will choose the maximum allowable. The selected screenmode is ← only valid if the Custom Screen? checkbox is checked.

Custom screen?

This checkbox determines whether or not Luminus will attempt to open a custom screen of type PUBLICSCREEN upon start-up. All documents, unless otherwise specified, will open on this screen. This is the default behavior.

Width

Height

These two integer gadgets control the width and height of the custom screen. They are bounds-checked with the dimensions in the display database. These gadgets are ghosted if Custom screen? is not checked.

Name

This string gadget specifies the name of the custom public screen which Luminus will attempt to open. This name is used as identification for other windows, possibly from other programs, so they may open on it. This gadget is ghosted if Custom screen? is not checked.

Text font

This display gadget shows the currently selected text display font, which is used in all of Luminus' document windows. The accompanying button, when clicked, will bring up the ASL font requester, from which you may choose a new font. This font must be a monospaced font. The font type is checked upon return from the font requester, and if a proportional font is selected, it will be ignored, and the old font will remain in place.

Screen font

This display gadget shows the currently selected screen font, which will be used on the custom screen which Luminus will attempt to open, if specified. The accompanying button, when clicked, will bring up the ASL font requester, from which you may choose a new font. This setting is ignored if Custom screen? is not checked.

Public screen

This string gadget lets you specify the name of the public screen on which Luminus will attempt to open its documents. This can be overridden (see New and Open in the Menus chapter).

Colors

This set of gadgets affects the color settings of the custom screen as well as the pens that will be used when drawing certain things, such as the cursor, blocked text and the status line.

The first gadget is a cycle gadget. This tells what item will be affected by any color changes. The first item, 'None', indicates that no item will be changed, and using the accompanying palette gadget and red, green and blue slider will only affect the palette. The subsequent items are 'Status line foreground', 'Status line background', 'Block foreground' and 'Block background'. Clicking to one of these items changes the palette gadget and sliders to reflect that setting's current pen.

Selecting a color from the palette gadget makes that color available for editing with the sliders. If the cycle gadget indicates anything other than 'None', the color selected becomes the current pen for that setting as well.

The sliders allow you to change the red, green and blue content of a color. Changes made are immediately apparent, but don't take effect unless the 'Use' button is selected.

Use

When you click this button, Luminus checks to see if the screenmode, width, height, depth or screen font have changed. If any of them differ from the current setting, Luminus will close its custom screen (if opened), and attempt to reopen it (if set). Should the text font differ from the current setting, all document windows will be immediately refreshed to reflect the new font.

Cancel

Clicking this button will tell Luminus to ignore any and all changes made to the display settings in the Display Settings panel, and will exit out of the panel.

1.43 Luminus: Control Panels & Windows/Control panels (Operations Settings)

Operations Settings Panel

This panel lets you set the options regarding the general operations of Luminus.

ARexx port base name

This string gadget allows you to enter the base name that will be used to name the ARexx port of a document. This name is suffixed with a numeric value to give a unique derived port name. The default base name is 'LUMINUS'.

Status line format

This gadget contains a string with printf()-style formatting codes which control how the status line is displayed. Using these codes, you can customize the status line to look whichever way that floats your boat. The following codes are supported.

Code	Meaning
%B	Block mode indicator ('Block' or nothing)
%c	Column number
%C	Caps Lock indicator ('Caps' or nothing)
%D	Drawing mode indicator (verbose text; this code also reflects the current colors and text style)
%E	Editing mode indicator (verbose text)
%f	Filename of document
%F	Complete path and filename of document
%H	Horizontal direction indicator (verbose text)
%I	Insert mode indicator ('Ins' or nothing)
%l	Current line
%L	Total number of cels in document
%m	Modified flag ('*' (asterisk) or ' ' (space) for modified or not, respectively)
%n	Current cel or page number (this code's value depends on the current editing mode of the document)
%N	Num Lock indicator ('Num' or nothing)
%P	ARexx port name of document

%V	Vertical direction indicator (verbose text)
%Y	Line type indicator (verbose text)
%%	An asterisk

These codes can be combined with regular text for a completely custom-made status line.

Clipboard unit

This is the clipboard unit number that each document will use by default when accessing the Clipboard.

Console specification

This string gadget allows you to specify the attributes of any console window that might be opened up, such as selecting Shell window from the Tools menu. Please refer to your AmigaDOS manual for more information on the console.

Use AppIcon?

Having this checkbox checked tells Luminus to place its AppIcon on the Workbench screen. You can use the AppIcon to easily load documents or return to Luminus without having to flip through screens.

Show status line?

This checkbox determines whether Luminus' documents will display a status line in their windows by default. This behavior can be controlled in each individual document as well.

Status line at top?

This checkbox determines whether the status line (if displayed) will be at the top or bottom of the window. This is a global flag and applies to all document windows.

Open attributes window?

Open switches window?

Open character set window?

These three checkboxes tell Luminus whether or not to open the respective interactive support windows upon start-up.

Beep on error?

This checkbox tells Luminus to execute a DisplayBeep() (an Intuition function that flashes the screen and sounds a (pitiful) tone) when an error occurs.

Ask before quitting?

This checkbox tells Luminus whether or not to confirm a quit action. This flag only applies when quitting using the Quit menu item. If a document is closed using the Close item, and it's the last document, Luminus will shut down automagically without confirmation.

Use

Clicking this button puts the current display settings into effect.

Cancel

Clicking this button, on the other hand, exits this panel and puts all changed settings into the bit-bucket (it ignores them).

1.44 Luminus: Control Panels & Windows/Control panels (Document Settings)

Document Settings Panel

This control panel lets you control the settings that apply to Luminus' documents.

Width

Height

These two integer gadgets let you specify the maximum displayable dimensions of your documents. These settings only affect what Luminus will display in the document's window. Cels that extend beyond these boundaries are preserved.

Pages

This is the default number of pages a document will support upon initial open. The actual number of pages can be changed from the Page menu. This setting only applies in Page Editing Mode, since animation sequences do not have pages.

Foreground/Background

Cycle?

The cycle gadget of this group of gadgets controls which (foreground or background) will be affected by the palette gadget and Cycle? checkbox. Choose a color from the palette gadget to make that color current for the setting shown in the cycle gadget. Click on the checkbox to set or unset default color cycling for the appropriate setting.

Edit mode

This cycle gadget sets the default editing mode of each document upon initial open. The currently available modes are 'Page' and 'Animation'. The default is 'Animation'.

Draw mode

This cycle gadget sets the default drawing mode open. The currently available modes are 'Text' and 'Attribute'. The default is 'Text'.

Vertical direction

Horizontal direction

These two cycle gadgets set the default vertical and horizontal cursor movement upon initial open. You can choose from 'None', 'Up' and 'Down' for vertical, and 'None', 'Left' and 'Right' for horizontal. The defaults are 'None' for vertical and 'Right' for horizontal.

Borderless?

This checkbox determines whether Luminus' document windows will be opened with a standard Intuition window border, complete with close gadget; title/drag bar; zoom, depth and sizing gadgets; and vertical and horizontal scrollers. The default is a borderless window.

Destructive backspace?

This setting determines whether the backspace key, when pressed, will delete the cel onto which it moves.

Show ruler?

This setting determines whether the Ruler will be displayed by default in the documents' windows. The ruler is a pair of lines that intersect at the mouse pointer. By default, the ruler is not shown.

Show ruler hashes?

This setting determines whether the Ruler (if displayed) will have hash marks drawn perpendicular to its edges at character width/height intervals. The hash marks are centered on the character position. By default, hash marks are not shown in the 68000/010 version, and are shown in the 68020+ versions.

Show ruler numbers?

This setting determines whether the Ruler (if displayed with hash marks on) will have position numbers displayed adjacent to the hash marks. The numbers are displayed either to the left or above the hash marks, as appropriate. By default, numbers are not shown in the 68000/010 version, and are shown in the 68020+ versions.

Interval

This setting controls the interval at which the Ruler's numbers (if shown) are drawn. The numbers will start at this number, and are displayed in this increment. For example, a setting of 10 will display every tenth ruler number starting at 10. The default value is 5.

Use

Clicking this button enacts the settings.

Cancel

Clicking this button ignores any changed settings in this panel and returns you to the document.

1.45 Luminus: Control Panels & Windows/Control panels (File Settings)

File Settings Panel

This control panel affects the settings concerning how Luminus saves and loads its files.

Save type

This cycle gadget allows you to set the type of file which will be saved when you select Save or Save as from the Project menu. The currently available types are 'ANSI' and 'IFF'. The default is 'ANSI'.

IFF type

If you elect to save file as type IFF, this cycle gadget lets you determine which IFF format will be used. The available formats are ANSI CEL, which is a proprietary IFF format Luminus uses, or FTXT CHRS, which most IFF-compliant word processors, as well as the Amiga's standard clipboard, understand.

Line length

This integer gadget determines the maximum length of a saved line before a CR(/LF) is appended. This allows Luminus to save documents so that lines will not extend beyond some BBS software's maximum line lengths.

Video preparation

This cycle gadget lets you choose the type of video preparation that will

precede your file when it is saved. The available types are 'None', 'Home cursor', and 'Clear screen'. 'None' will not put anything before your data, obviously. 'Home' will put an ANSI code to place the cursor at the top left corner of the screen. 'Clear' will place in ANSI code that will clear the screen before the file is drawn.

End-of-line type

This cycle gadget allows you to choose the type of EOL that will be saved with your documents. The available types are 'CR only', 'LF only', and 'CR + LF'. The default is 'CR + LF'.

Header

This string gadget allows you to enter any text and/or control codes that you wish to have saved at the beginning of every document, before ANY document contents are saved. You may type in any valid ASCII text. To enter control characters, escape sequences and the like, use the following:

Control characters

These are prefixed with the character '^', and can be any valid letter, i.e., 'A' through 'Z'. All other characters are translated literally.

Escape sequences

These are prefixed with the character '\'. The following are valid sequences; all other characters are translated literally:

Escape char	Meaning
e	Escape code (ASCII 27)
t	Tab character (ASCII 9)

ASCII codes

These are prefixed by the character '*'. The ASCII code should be any decimal number from 1 to 3 characters in length. The first non-numeric character encountered terminates the ASCII code. For example, I enter the code '*4Bang!'. This would be interpreted as ASCII code 4, since the 'B' in bang is not numeric. If the next character after the ASCII code is a digit, I would have to enter it thus: '*00499 is a babe.', which would also translate to ASCII code 4, and then continue with '99 is a babe.' Is this clear now?

Footer

This string gadget allows you to enter any text and/or control codes that you wish to have saved at the end of every document, AFTER all document contents are saved. You may type in any valid ASCII text. To enter control characters, escape sequences and the like, use the table described in Header above.

Use alt. escape?

Some BBS software, instead of using the standard escape character (ASCII code 27), use an alternate character, such as '@' or '^', for their ANSI escape sequences. Checking this box tells Luminus to use an alternate character when saving files. The string gadget next to it is where you input the character to use.

Filter solid spaces?

Checking this checkbox tells Luminus to convert incoming or outgoing solid, or "hard", spaces (ASCII code 160) to normal spaces.

Prompt on save?

Checking this gadget sets the flag that causes the Save panel (see above) to pop up before a file is saved. This allows you to change the save attributes for each file without having to change the defaults.

Filter stray escapes?

ANSI codes, by definition, always begin with the character sequence "esc[", where 'esc' stands for the ASCII escape character, code 27. If Luminus should encounter an "stray" escape character, i.e., one not belonging to a valid ANSI sequence, this flag determines how it handles them. If the flag is on, these escapes will be filtered out of the file. If it is off, they will remain as part of the file, but will never be displayed.

I/O Buffer size

This integer gadget allows you to set the size of the buffer Luminus will use for input and output. This buffer speeds disk access and generally makes loading and saving files quicker. As a rule of thumb, the larger the buffer, the quicker the file access; but you must be careful not to make the buffer too large. Note that this value is in kilobytes (KB), not bytes.

Timed backups

Interval

These two gadgets affect whether Luminus will execute a timed backup during your editing sessions. The checkbox turns the feature on, and the integer gadget sets the amount of time (in minutes) that must pass before Luminus does an automatic backup.

Directory

This is the directory in which Luminus will save your backed up files. This directory applies to timed backups (above) as well as file backups (below). If this is blank, the file's current directory is assumed.

Extension

This is the extension that will be appended to any files that Luminus backs up, either via timed backup or through the Save original? flag (below). You do not have to add a period at the beginning of the extension; this will be done for you. If this is blank, no extension is added.

For example, Luminus backs up the file 'Logon.ansi', which you are editing. You have the backup extension set at "backup". The file will be saved into the backup directory as 'Logon.ansi.backup'.

NOTE Luminus will attempt to handle backups intelligently. If the backup directory AND extension are both blank, the resulting path and filename would overwrite the original file, which defeats the purpose of the backup. So if this case is detected, Luminus will add just the '.' (period) to the end of the filename to create a (possibly) unique filename, preventing an overwrite. This is not possible with a filename that is the maximum length AmigaDOS allows.

Save original?

Setting this flag tells Luminus to preserve the original file when doing a normal Save (Save as is not affected, since it allows you to explicitly overwrite a file). The file will be backed up into the specified directory, using the specified extension.

Use

Click this button to make the changes you've made in this panel take effect.

Cancel

Clicking on this button aborts the panel and ignores any changes made therein.

1.46 Luminus: Control Panels & Windows/Control panels (Box & Line Settings Panel)

Box & Line Settings Panel

This panel controls the settings concerning boxes and lines used in Luminus.

Line type

This cycle gadget allows you to set the default line type that will be used by each document.

Box codes

These are the unlabeled boxes that take up most of the panel's real estate. Each box corresponds to a part of a whole box, like so:

```

+-----+ +-----+ +-----+ +-----+
|  1  | |  2  | |  3  | |  4  |
+-----+ +-----+ +-----+ +-----+

+-----+           +-----+ +-----+
|  5  |           |  6  | |  7  |
+-----+           +-----+ +-----+

+-----+ +-----+ +-----+ +-----+
|  8  | |  9  | | 10  | | 11  |
+-----+ +-----+ +-----+ +-----+

+-----+ +-----+ +-----+ +-----+
| 12  | | 13  | | 14  | | 15  |
+-----+ +-----+ +-----+ +-----+

```

These gadgets allow you to enter the specific characters to use for each of the box parts when drawing a box using the Custom line type. The box numbers are as follows:

Number	Box part type
1	Upper-left corner
2	Upper cross-beam
3	Upper intersection
4	Upper-right corner
5	Left cross-beam
6	Middle vertical cross-beam
7	Right cross-beam
8	Left intersection
9	Middle horizontal cross-beam
10	Middle intersection
11	Right intersection

12	Lower-left corner
13	Lower cross-beam
14	Lower intersection
15	Lower-right corner

Use

Clicking on this button makes any changes made in this panel take effect.

Cancel

Click this button to abort the panel and ignore any changes made in it.

1.47 Luminus: Control Panels & Windows/Requesters

Requesters

- Select Public Screen
- Choose Color
- String/Integer Input

1.48 Luminus: Control Panels & Windows/Requesters (Select Public Screen)

Select Public Screen

This requester presents you with a scrolling list of all the currently opened public screens. From this list you may select a screen name and click the Use button, or double-click the desired screen name. Selecting Cancel or the window's close gadget backs out of the requester with no action being taken.

If the Select Public Screen requester is called as a result of a screen jump request, an additional gadget is available. This is the Move all windows gadget. If this checkbox is checked when a public screen is chosen, then all windows, not just the initiating window, will be affected. This gadget is not available if the requester is called from a New or Open Document request.

1.49 Luminus: Control Panels & Windows/Requesters (Choose Color)

Choose Color

This requester presents you with a palette gadget from which to choose the desired color, such as changing the foreground or background color. Click Use to make the change take effect, Cancel to back out.

1.50 Luminus: Control Panels & Windows/Requesters (String/Integer Input)

String/Integer Input

This requester presents a string or integer gadget, with appropriate prompt-

ing, for user input. Clicking the Use button or pressing carriage return from the gadget effect the change, which clicking the close gadget or the Cancel button back out with no action taken.

1.51 Luminus: ARexx

ARexx

This chapter discusses the ARexx(tm) commands available to you via Luminus' ARexx interface.

Each document in Luminus has its own ARexx port, and may receive any command, including commands that affect global settings. The port name for any document can be found by selecting the About item in the Project menu.

Some commands return results in the ARexx variable result, so you must be sure to set `OPTIONS RESULTS` in your scripts. If you do not, you will get an `OPTIONS_RESULTS_NOT_SET` returned in `rc`, and you don't want that, now do you?

Some command are also only available in certain editing or drawing modes, or when a block is selected, so please be sure to read the command's description. Commands used while not in a certain mode usually return `COMMAND_NOT_AVAILABLE` in `rc`.

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1.52 Luminus: ARexx/Command conventions

Command Conventions

The following convention is used for each ARexx command discussed in this chapter:

Command

Synopsis Arguments and options for the command. The command name is shown first, followed by any required and/or optional parameters. Parameters in all lower-case, such as

SaveSettings file

are substituted with something, like a filename. Some parameters can be supplied multiple times, such as filenames in the Open command. These parameters are followed by ellipses, like so:

Open file...

If the parameter has square brackets around it, like this

Save [file]

then it is optional. Parameter with no brackets, like the first two above, are required, and must be supplied for the command to work as documented. Keywords, which must be supplied as typed (except for case), are shown in all capitals, like this:

Ruler ON|OFF

Also, the vertical bar that separates ON and OFF in the above command means that you can choose from any of the items there for that parameter. So the above command could be Ruler ON, or Ruler OFF. Simple, eh?

Purpose A brief description of the command.

Description A detailed explanation of the command and its options, with examples as necessary. If a command is usable in a certain mode, this is discussed here as well. Some commands return results in result; the format is also described here.

See Also One or more references to other ARexx commands or sections in the manual for further explanation.

1.53 Luminus: ARexx/ActivateWindow

ActivateWindow

Synopsis ActivateWindow

Purpose Make this document's window active.

Description This command causes the window associated with the document from

whose ARexx port this command is received to become the input focus, or active window.

See Also None

1.54 Luminus: ARexx/AtCursor

AtCursor

Synopsis AtCursor

Purpose Grab the attributes at the current cursor position.

Description AtCursor grabs the foreground and background colors and character attributes at the cursor position. This command obeys the current Attribute Mode flags, so if a particular flag is not set, such as foreground color, that attribute will be ignored. This way you can grab only the attributes you want.

See Also AttrMode

1.55 Luminus: ARexx/Attribute

Attribute

Synopsis Attribute [PLAIN] [BOLD] [ITALICS] [UNDERLINE] [BLINK] [INVERSE]
[CONCEALED]

Purpose Inquire about or change the current attributes.

Description Specify any of the parameters to toggle that state of that attribute. The PLAIN parameter is a switch (as opposed to the others, which are toggles). Using plain in combination with the other parameters allows you to completely reset the attributes without having to check on their current state and toggle the appropriate ones on or off. For example, the current attributes are BOLD and UNDERLINE. You want to change them to ITALICS. Simply issue the following command:

```
Attribute PLAIN ITALICS
```

This will turn off all the attributes, and then turn on italics.

Issuing this command without any of the parameters specified returns the currently set attributes as a text string in result. For example, if Italics and underlining were active, Attribute (with no parameters) would return:

```
"ITALICS UNDERLINE"
```

See Also None

1.56 Luminus: ARexx/AttrMode

AttrMode

Synopsis AttrMode [[NO]FORE[GROUND]] [[NO]BACK[GROUND]] [[NO]ATTR[IBUTE]]

Purpose Change the attribute mode flags.

Description This command sets the Attribute mode flags. These flags affect what attributes of cels are affected during Attribute Mode Drawing, as well as filtering which attributes are taken upon execution of the AtCursor command.

Specifying any of the parameters prefixed with NO shuts that attribute off. Otherwise, it is turned on.

AttrMode returns the current Attribute mode flags in result as follows:

```
"foregnd-flag backgnd-flag attr-flag"
```

where each -flag is either ON or OFF.

See Also DrawMode, AtCursor

1.57 Luminus: ARexx/BackgroundPen

BackgroundPen

Synopsis BackgroundPen [pen] [[NO]CYCLE]

Purpose Change the background drawing pen.

Description This command changes the background color used for text and drawing. The pen parameter accepts a color register number as its argument, starting at pen 0 to the maximum pen usable on the screen. If the CYCLE keyword is supplied, the background color cycling flag is turned on. NOCYCLE turns it off.

BackgroundPen returns the current background pen and cycle flag in result as follows:

```
"pen-number cycle-flag"
```

where pen-number is the numeric color register, and cycle-flag is either CYCLE or NOCYCLE.

See Also TextPen

1.58 Luminus: ARexx/BevelBox

BevelBox

Synopsis `BevelBox left top width height bevel [line-type [character]]`

Purpose Draw a box with a beveled appearance.

Description The first five parameters are required, and specify the dimensions of the box to be drawn, and the bevel type. Valid bevel types are RAISED and RECESSED. The line-type parameter is the line type with which to draw the box. Valid line types are SINGLE, DOUBLE, SINGLEDDOUBLE, DOUBLESINGLE, CUSTOM and SELECT. If the SELECT line type is used, you must specify the character to use in character.

See Also `Box`, `TextBox`

1.59 Luminus: ARexx/Border

Border

Synopsis `Border [ON|OFF]`

Purpose Turn on or off the document window's border.

Description This command tells Luminus to open the document's window with or without a standard Intuition window border, complete with close gadget, title/drag bar, zoom, depth and sizing gadgets, and vertical and horizontal scrollers. If the current state of the window differs from the desired one, the window will be closed and reopened in the requested state. The parameters are quite obvious, I hope.

Border returns the current state (ON or OFF) in result.

See Also None

1.60 Luminus: ARexx/Box

Box

Synopsis `Box left top width height [line-type [character]]`

Purpose Draw a box.

Description The first four parameters are required, and specify the dimensions of the box to be drawn. The line-type parameter is the line type with which to draw the box. Valid line types are SINGLE, DOUBLE, SINGLEDDOUBLE, DOUBLESINGLE, CUSTOM and SELECT. If the SELECT line type is used, you must specify the character to use in character.

See Also `BevelBox`, `TextBox`

1.61 Luminus: ARexx/BoxLineSettings

BoxLineSettings

Synopsis BoxLineSettings

Purpose Bring up the Box & Line Settings panel.

Description Issuing this command brings up the Box & Line Settings panel.

See Also DisplaySettings, OpsSettings, FileSettings, DocumentSettings

1.62 Luminus: ARexx/ChangeWindow

ChangeWindow

Synopsis ChangeWindow left top width height

Purpose Change the current window's size and position.

Description This command's parameters any value of zero or greater for left or top, and any positive value greater than or equal to 100 for width, and 75 for height. The window, if its ultimate size and position would extend beyond the screen's boundaries, will first be moved and then resized to fit into the screen.

See Also ZoomWindow, UnZoomWindow, MoveWindow, SizeWindow

1.63 Luminus: ARexx/Clear

Clear

Synopsis Clear PAGE|DOCUMENT [FORCE]

Purpose Clear part or all of the current document.

Description This command will clear larger portions of the document than are normally handles by Cut, Erase and their ilk. The first parameter can be either PAGE or DOCUMENT. Specifying PAGE (which is only available in Page Editing mode), clears the current page. If this parameter is used in any other mode, INVALID_PARAMETER is returned in rc. If DOCUMENT is specified, the entire document is cleared. The second parameter, FORCE, suppressed the 'are you sure?' requester that normally comes up.

See Also None

1.64 Luminus: ARexx/Close

Close

Synopsis Close [FORCE]

Purpose Close the current document.

Description This command tells Luminus to shut the current document's window and free all associated memory for that document. The FORCE parameter tells Luminus to suppress the requester that would appear if you had made changes to the document since its last save.

See Also None

1.65 Luminus: ARexx/CloseAttributes

CloseAttributes

Synopsis CloseAttributes

Purpose Close the Attributes interactive support window.

Description This command closes the Attributes interactive support window if it is open. If it isn't, nothing happens.

See Also OpenAttributes, OpenCharSet, CloseCharSet, OpenSwitches, CloseSwitches

1.66 Luminus: ARexx/CloseCharSet

CloseCharSet

Synopsis CloseCharSet

Purpose Close the Character Set interactive support window.

Description This command closes the Character Set interactive support window if it is open. If it isn't, nothing happens.

See Also OpenAttributes, OpenCharSet, OpenSwitches, CloseAttributes, CloseSwitches

1.67 Luminus: ARexx/CloseSwitches

CloseSwitches

Synopsis CloseSwitches

Purpose Close the Switches interactive support window.

Description This command closes the Switches interactive support window if it is open. If it isn't, nothing happens.

See Also `OpenAttributes`, `OpenCharSet`, `CloseAttributes`, `OpenSwitches`, `CloseCharSet`

1.68 Luminus: ARexx/CmdShell

CmdShell

Synopsis `CmdShell [console-specification] [STARTUP[=]startup-file]`

Purpose Start an AmigaDOS shell process.

Description This command starts a new AmigaDOS shell process. If the `console-specification` is provided, that will be used, otherwise the console specification in the Operations Settings panel is used. You can specify a start-up file using the `STARTUP` parameter. If this is not provided, `'s:Shell-Startup'` is assumed.

See Also `None`

1.69 Luminus: ARexx/Column

Column

Synopsis `Column INSERT|DELETE`

Purpose Insert or delete columns.

Description Using the `INSERT` switch, you can insert a blank column at the cursor position, moving all columns on the right over to the right to accommodate the new column. Columns that get moved outside the bounds of the document are not lost.

The `DELETE` switch eliminates the column under the cursor and moves everything to the right over to fill its space.

See Also `Line`

1.70 Luminus: ARexx/Copy

Copy

Synopsis `Copy`

Purpose Copy blocked text to the clipboard.

Description `Copy`, as opposed to `Cut`, grabs the currently blocked text and

puts it in the clipboard, but does not remove it from the document. The block is deselected upon completion of the copy. The selected clipboard unit for the current document is used.

COMMAND_NOT_AVAILABLE is returned in rc if this command is used when no block is active.

See Also `Cut`, `Paste`, `Erase`, `Delete`

1.71 Luminus: ARexx/CreateIcons

CreateIcons

Synopsis `CreateIcons [ON|OFF]`

Purpose Inquire about or alter the CreateIcons flag.

Description If you specify either the ON or OFF parameter with this command, the CreateIcons flag will be changed to that state.

This command returns the current state in result.

See Also `None`

1.72 Luminus: ARexx/Cursor

Cursor

Synopsis `Cursor UP|DOWN|LEFT|RIGHT [amount] [SHIFT] [ALT] [CONTROL]`

Purpose Move the cursor around.

Description The first parameter specifies the direction in which to move the cursor. If the amount parameter is specified, the cursor will be moved that many positions in the specified direction. Any of the switches, SHIFT, ALT or CONTROL, alter the effects of the cursor key just as if you had the appropriate key pressed. See the Operations chapter on the effects of qualifier keys on cursor movement.

See Also `Position`

1.73 Luminus: ARexx/Cut

Cut

Synopsis `Cut`

Purpose Remove blocked text to the clipboard.

Description This command grabs the currently blocked text (cels), puts them in the clipboard, and removes them from the document. The selected clipboard unit for the current document is used.

COMMAND_NOT_AVAILABLE is returned in rc if this command is used when no block is active.

See Also Copy, Paste, Erase, Delete

1.74 Luminus: ARexx/Delete

Delete

Synopsis Delete

Purpose Deletes a block from the current document.

Description This command acts like Cut, removing blocked text from the document, except that it does not copy anything to the clipboard; the text is just removed. Note that this command differs from Erase only in that it creates a "vacuum" that pulls anything to the right of the block in to fill the vacated space, whereas Erase leaves empty space where the removed text was previously.

COMMAND_NOT_AVAILABLE is returned in rc if this command is used when no block is active.

See Also Cut, Erase

1.75 Luminus: ARexx/DeletePage

DeletePage

Synopsis DeletePage [FORCE]

Purpose Remove a page from the document.

Description This command completely removes the current page from the document. You will be prompted for confirmation of this. Using the FORCE parameter suppresses this requester.

This command is only available in Page Editing Mode. Issuing it in any other mode results in a COMMAND_NOT_AVAILABLE error being returned in rc.

See Also NewPage

1.76 Luminus: ARexx/DeselectBlock

DeselectBlock

Synopsis DeselectBlock

Purpose Unmark the current block.

Description This command unmarks the currently selected block and takes the document out of Block mode.

See Also SelectBlock

1.77 Luminus: ARexx/DisplaySettings

DisplaySettings

Synopsis DisplaySettings

Purpose Bring up the Display Settings panel.

Description Issuing this command brings up the Display Settings panel.

See Also OpsSettings, FileSettings, DocumentSettings, BoxLineSettings

1.78 Luminus: ARexx/DocumentSettings

DocumentSettings

Synopsis DocumentSettings

Purpose Bring up the Document Settings panel.

Description Issuing this command brings up the Document Settings panel.

See Also DisplaySettings, OpsSettings, FileSettings, BoxLineSettings

1.79 Luminus: ARexx/DrawMode

DrawMode

Synopsis DrawMode [TEXT|ATTR]

Purpose Change the current Drawing Mode.

Description This command changes to the desired Drawing Mode. Currently, TEXT and ATTR modes are the only ones available. Future versions of Luminus may support additional modes. See the Operations chapter for details on each of the Drawing Modes.

DrawMode returns the current Drawing Mode in result.

See Also EditMode

1.80 Luminus: ARexx/EditCel

EditCel

Synopsis EditCel [CHAR[ACTER][=]c] [ASCII[=]num] [FORE[GROUND][=]pen]
[BACK[GROUND][=]pen] [PLAIN] [BOLD] [ITALICS] [UNDERLINE]
[BLINK] [INVERSE] [CONCEALED]

Purpose Change the parts of a cel.

Description Using this command, you can change the attributes of the cel over which the cursor is lying. Underlying cels are not affected.

The CHARACTER parameter lets you specify a new character to place in the cel. This is a single character. If you wish to specify the character using its ASCII code, use the ASCII parameter instead.

The FOREGROUND and BACKGROUND parameters accept color register values as their arguments. This is the color register to which you wish to change the foreground or background color.

The rest of the parameters affect the text attributes of the cel's character. The PLAIN parameter is a switch. Specifying it resets all of the text attributes. The others are toggles. So for example, if Bold is on in the current cel, and you enter

```
EditCel BOLD
```

the Bold attribute will be toggled to off. Using PLAIN in combination with the others allows you to set all new attributes without having to worry which ones to toggle on or off to get the desired settings.

EditCel returns the attributes of the cel in result as follows:

```
"character foregnd backgnd attributes..."
```

where character is the character in the cel, foregnd is the foreground pen value, backgnd is the background pen value, and attributes... are the text names of whichever attributes are set.

This command is only available in Animation Editing Mode. Its use in any other mode causes a COMMAND_NOT_AVAILABLE to be returned in rc.

See Also None

1.81 Luminus: ARexx/EditMode

EditMode

Synopsis EditMode [PAGE|ANIM] [FORCE]

Purpose Change the current Editing Mode.

Description This command changes to the desired Editing Mode. Currently, PAGE and ANIM modes are the only ones available. Future versions of Luminus may support additional modes. See the Operations chapter for details on each of the Editing Modes.

When switching from ANIM mode to PAGE, you may lose some cels, potentially ruining your image. You are presented with a requester that allows you to abort. Using the FORCE parameter suppresses this requester.

EditMode returns the current Editing Mode in result.

See Also DrawMode

1.82 Luminus: ARexx/Erase

Erase

Synopsis Erase

Purpose Erase a block from the current document.

Description This command acts like Cut, removing blocked text from the document, except that it does not copy anything to the clipboard; the text is just removed. Note that this command differs from Delete only in that it leaves empty space where the removed text was previously, whereas Delete creates a "vacuum" that pulls anything to the right of the block in to fill the vacated space.

COMMAND_NOT_AVAILABLE is returned in rc if this command is used when no block is active.

See Also Cut, Delete

1.83 Luminus: ARexx/ExecuteScript

ExecuteScript

Synopsis ExecuteScript AmigaDOS-script

Purpose Execute an AmigaDOS script.

Description This command allows you to asynchronously execute an AmigaDOS script.

See Also Rx

1.84 Luminus: ARexx/FileSettings

FileSettings

Synopsis FileSettings

Purpose Bring up the File Settings panel.

Description Issuing this command brings up the File Settings panel.

See Also DisplaySettings, OpsSettings, DocumentSettings, BoxLineSettings

1.85 Luminus: ARexx/Font

Font

Synopsis Font [fontname size]

Purpose Change the display's font and point-size.

Description This command only changes the font used for the images; it does not change the screen's font. The fontname parameter is the filename of the font. You must include the '.font' extension. The size parameter is the desired point size (height) of the font that you want.

This command returns the font name and size in result.

See Also None

1.86 Luminus: ARexx/GetCel

GetCel

Synopsis GetCel

Purpose Get the attributes of the cel under the cursor.

Description GetCel returns the attributes of the cel located directly underneath the cursor in result as follows:

```
"character foregnd backgnd attributes..."
```

where character is the character in the cel, foregnd is the foreground pen value, backgnd is the background pen value, and attributes... are the text names of whichever attributes are set. This command returns the same result as EditCel, but is included since EditCel is only available in Animation Editing Mode.

See Also None

1.87 Luminus: ARexx/GetColumn

GetColumn

Synopsis GetColumn

Purpose Get the current column.

Description This command returns the current cursor column in the ARexx variable result.

See Also GetLine

1.88 Luminus: ARexx/GetLine

GetLine

Synopsis GetLine

Purpose Get the current line.

Description This command returns the current cursor line in the ARexx variable result.

See Also GetColumn

1.89 Luminus: ARexx/GotoColumn

GotoColumn

Synopsis GotoColumn column

Purpose Move to a specific column.

Description The column parameter specifies the absolute column number to which Luminus should move the cursor.

See Also GotoLine

1.90 Luminus: ARexx/GotoLine

GotoLine

Synopsis GotoLine line

Purpose Move to a specific line.

Description The line parameter specifies the absolute line number to which Luminus should move the cursor.

See Also `GotoColumn`

1.91 Luminus: `ARexx/ HorizDir`

`HorizDir`

Synopsis `HorizDir [NONE|LEFT|RIGHT]`

Purpose Change the horizontal cursor direction.

Description This command allows you to set the horizontal direction of the cursor. `HorizDir` returns the current horizontal direction in result.

See Also `VertDir`

1.92 Luminus: `ARexx/ Insert`

`Insert`

Synopsis `Insert CODE[=]code|CLEARSCREEN [COLOR[=]num]`

Purpose Insert a code into the animation.

Description Use this command to insert non-typeable codes into your animation. If it is a custom ANSI code, use the `CODE` parameter. Do not enter the escape character and opening bracket (`[`) for the code. This is automatically done, since all ANSI codes begin with them. If you want a clear screen code, use `CLEARSCREEN`. If you don't specify a color, via `COLOR`, the current background color is used. The `num` parameter is the color register number.

This command is only available in Animation Editing Mode. If it is issued in any other editing mode, a `COMMAND_NOT_AVAILABLE` error is returned in `rc`.

See Also `None`

1.93 Luminus: `ARexx/ JumpScreen`

`JumpScreen`

Synopsis `JumpScreen screen-name|NEXT [ALL]`

Purpose Jump the current window to a new screen.

Description The `JumpScreen` command allows you to move an existing document's window to another screen. The first parameter is either a `screen-name` or the keyword `NEXT`. The `screen-name` must match an

existing public screen's name exactly, and the destination screen must be a public screen. Using NEXT will move to the next screen in Intuition's public screen list.

The keyword ALL indicates that all document windows should be moved to the desired screen.

If there are no public screens available, or the screen-name specified doesn't exist or can't be locked, the command drops result. Otherwise, the screen on which the window is opened is returned.

See Also None

1.94 Luminus: ARexx/Line

Line

Synopsis Line INSERT|DELETE

Purpose Insert or delete lines.

Description Using the INSERT switch, you can insert a blank line at the cursor position, moving all lines below down to accommodate the new line. Lines that get moved outside the bounds of the document are not lost.

The DELETE switch eliminates the line under the cursor and moves everything below up to fill its space.

See Also Column

1.95 Luminus: ARexx/LineType

LineType

Synopsis LineType [SINGLE|DOUBLE|SINGLEDDOUBLE|DOUBLESINGLE|CUSTOM|SELECT]

Purpose Change the current line type.

Description This command changes to the desired line type. The first four line types assumed an IBM-style font. The line type CUSTOM allows for any font that may have complex box parts. See the Operations chapter for details on each of the line types.

LineType returns the current line type in result.

See Also None

1.96 Luminus: ARexx/LoadSettings

LoadSettings

Synopsis LoadSettings file

Purpose Load a file of saved settings.

Description The file parameter specifies the settings file to load. You can specify a path with the filename.

See Also SaveSettings

1.97 Luminus: ARexx/LockGUI

LockGUI

Synopsis LockGUI

Purpose Locks the user interface, disabling display updates.

Description Issue this command when you want to keep Luminus from updating its displays. All window redrawing (with the exception of Intuition-mandated refreshes) is disabled, as well as menu updates. You may still access the menus, but checkmarked items, for instance, may not reflect their proper state. This is useful if you are going to issue a lot of display-intensive commands and don't want the system bogged down doing refreshes. Updates do not get queued during a LockGUI.

See Also UnlockGUI

1.98 Luminus: ARexx/MoveWindow

MoveWindow

Synopsis MoveWindow left top

Purpose Move the current window to a new position.

Description This command's parameters accept any zero or positive coordinate values to which to move the current window. This command does not affect the window's size, and will always keep the window within the screen's borders.

See Also ZoomWindow, UnZoomWindow, SizeWindow, ChangeWindow

1.99 Luminus: ARexx/New

New

Synopsis `New [PORTNAME[=]ARexx-port] [SCREEN[=]public-screen]`

Purpose Open a new, blank document.

Description This command opens a new empty document and its accompanying window. If the PORTNAME parameter is specified, the document's ARexx port will have the name given, instead of using the standard naming convention, which is to use the base name specified in the Operations Settings panel plus a unique numeric identifier. For example, If the base name is 'LUMINUS', and you have two documents opened, with ARexx ports called 'LUMINUS.0' and 'LUMINUS.1', the next document will be called 'LUMINUS.2'. Using PORTNAME, you can say:

```
New PORTNAME THIRDDOC
```

which will open the new document with an ARexx port named 'MYDOC'. If the portname specified cannot be opened, the document will open without an ARexx port. The portname used will be returned in result, or if no port was opened, 'Untitled' will be returned.

Using the SCREEN parameter, you can specify the public screen on which to open the document. If the public screen specified is not available, or no public screen is specified, the name specified in the Public Screen setting in the Display Settings panel will be used. If that doesn't work, the default public screen will be used.

If New cannot open a new document, result will be dropped; otherwise, the name of the ARexx port is returned.

See Also `Open`

1.100 Luminus: ARexx/NewPage

NewPage

Synopsis `NewPage APPEND|INSERT`

Purpose Add a new page to the document.

Description NewPage adds a new, blank page to the document. If you specify APPEND, the new page is placed at the end of the document, after all existing pages. If INSERT is used, the new page is inserted at the current page, moving all subsequent pages back one to accommodate.

This command may only be issued in Page Editing Mode. If it is used in any other mode, a COMMAND_NOT_AVAILABLE error is returned in rc.

See Also `DeletePage`

1.101 Luminus: ARexx/NextPage

NextPage

Synopsis NextPage

Purpose Move to the next page in the document.

Description Issuing this command moves to the next page in the document, if there is one. If there isn't, nothing happens.

See Also PreviousPage

1.102 Luminus: ARexx/Open

Open

Synopsis Open file... [PORTNAME[=]ARexx-port] [SCREEN[=]public-screen]

Purpose Open one or more files.

Description The parameter file... specifies the file (with optional path) to open. You can specify more than one file to open. Standard AmigaDOS pattern-matching can be used for filenames. For example:

```
Open Work:Pictures/ANSI/#?.ans
```

```
will open all files ending in '.ans' in the directory
"Work:Pictures/ANSI".
```

Each file will be opened in a separate document and window. Open will return in result the names of each file (and path) opened, separated by a vertical bar ('|').

See the description of New for details on the parameters PORTNAME and SCREEN.

This command returns the ARexx port names in result.

See Also New

1.103 Luminus: ARexx/OpenAttributes

OpenAttributes

Synopsis OpenAttributes

Purpose Open the Attributes interactive support window.

Description Issuing this command tells Luminus to open the Attributes interactive support window on the screen of the current document.

If the window is already open on that screen, it is moved to the front. If it open on another screen, it will close and reopen on the appropriate screen.

See Also `OpenAttributes`, `CloseAttributes`, `OpenCharSet`, `CloseCharSet`, `↔`
`OpenSwitches`,
`CloseSwitches`

1.104 Luminus: ARexx/OpenCharSet

`OpenCharSet`

Synopsis `OpenCharSet`

Purpose Open the Character Set interactive support window.

Description Issuing this command tells Luminus to open the Character Set interactive support window on the screen of the current document. If the window is already open on that screen, it is moved to the front. If it open on another screen, it will close and reopen on the appropriate screen.

See Also `OpenAttributes`, `CloseAttributes`, `CloseCharSet`, `OpenSwitches`,
`CloseSwitches`

1.105 Luminus: ARexx/OpenSwitches

`OpenSwitches`

Synopsis `OpenSwitches`

Purpose Open the Switches interactive support window.

Description Issuing this command tells Luminus to open the Switches interactive support window on the screen of the current document. If the window is already open on that screen, it is moved to the front. If it open on another screen, it will close and reopen on the appropriate screen.

See Also `OpenAttributes`, `CloseAttributes`, `OpenCharSet`, `CloseCharSet`,
`CloseSwitches`

1.106 Luminus: ARexx/OpsSettings

`OpsSettings`

Synopsis `OpsSettings`

Purpose Bring up the Operations Settings panel.

Description Issuing this command brings up the Operations Settings panel.

See Also `DisplaySettings`, `FileSettings`, `DocumentSettings`, `BoxLineSettings`

1.107 Luminus: ARexx/Overlay

Overlay

Synopsis `Overlay file...`

Purpose Append one or more files onto the current document.

Description This command attempts to append the contents of `file...` onto the current document. The `file...` parameter accepts multiple filenames. AmigaDOS pattern-matching can also be used. For example:

```
Overlay Work:Pictures/ANSI/#?.ans
```

will overlay all files ending in `' .ans'` in the directory `"Work:Pictures/ANSI"` onto the current document.

All files that were overlaid, completely or partially, are returned in result.

See Also `Open`

1.108 Luminus: ARexx/Paste

Paste

Synopsis `Paste`

Purpose Paste text from the clipboard into the current document.

Description This command grabs any text available from the clipboard and places it in the current document, using the current cursor position as its anchor point (top-left corner). The selected clipboard unit for the current document is used.

Paste will only grab chunks of types `FTXT` `CHRS` or `ANSI` `CEL` from the clipboard; no other IFF form is supported.

`COMMAND_NOT_AVAILABLE` is returned in `rc` if this command is used when no block is active.

See Also `Cut`, `Copy`, `Erase`, `Delete`

1.109 Luminus: ARexx/Pause

Pause

Synopsis `Pause KEY|TIMED[=]val`

Purpose Insert a pause in the animation.

Description This command allows you to insert a pause into the current animation. The type of pause is specified by this command's parameters. If a key-released pause is desired, use `KEY`. If you want to use a pause that only stops for a length of time, use `TIMED` with the number of clock-ticks in `val` (there are 50 clock-ticks per second).

See Also `Insert`

1.110 Luminus: ARexx/Position

Position

Synopsis `Position SOD|EOD|SOV|EOV`

Purpose Position the cursor at a predetermined point in the document.

Description Using the `Position` command, you can place the cursor at any of the "framing points" of the document, namely the start or end of the document or view. The parameters `SOD` or `EOD` move the cursor to the start or end of the document, respectively. The parameters `SOV` or `EOV` move the cursor to the start or end of the "view" (the portion of the document currently visible in the document's window), respectively.

See Also `Cursor`

1.111 Luminus: ARexx/PresetColor

PresetColor

Synopsis `PresetColor A2024|AMIGA|ANSI|EGA|FROMWB`

Purpose Load a predefined color set in the custom screen's color registers.

Description Specify one of the parameters above to load that color set into the custom screen registers. This command only affects Luminus' own custom screen. If this command is issued without Luminus having opened its own screen, a `COMMAND_NOT_AVAILABLE` error is returned.

See Also `None`

1.112 Luminus: ARexx/PreviousPage

PreviousPage

Synopsis PreviousPage

Purpose Move to a previous page in the document.

Description This command moves to the previous page in the document, if there is one. If there isn't, nothing happens.

This command is only available in Page Editing Mode. A `COMMAND_NOT_AVAILABLE` is returned in rc if used in any other mode.

See Also NextPage

1.113 Luminus: ARexx/Quit

Quit

Synopsis Quit [FORCE]

Purpose Shutdown Luminus.

Description This command tells Luminus to close all open documents and shutdown, including closing its custom screen, if opened. The `FORCE` parameter tells Luminus to suppress the requester that would appear if you had made changes to any documents since their last save. Otherwise, a requester will appear for each document that has modifications.

See Also None

1.114 Luminus: ARexx/RedoDisplay

RedoDisplay

Synopsis RedoDisplay

Purpose Tell Luminus to do an entire refresh of the display.

Description This command causes Luminus to do an entire forced refresh of the current document window. Some document information is recompiled, the animation is redrawn, and Intuition is requested to update the window's imagery.

See Also None

1.115 Luminus: ARexx/Redraw

Redraw

Synopsis Redraw speed

Purpose Redraw the current ANSI animation.

Description This command causes the current animation to be redrawn from the first cel to the last as input into the document. The speed parameter is the delay factor used in drawing the animation. This value is how long Luminus waits between each cel. The higher the value, the longer the delay between cels, the slower the animation is drawn. A value of 50 is equal to a 1 second pause.

See Also None

1.116 Luminus: ARexx/RestoreDefaults

RestoreDefaults

Synopsis RestoreDefaults

Purpose Reset settings to internal defaults.

Description This command will discard the current settings and return Luminus to its internally stored settings.

See Also None

1.117 Luminus: ARexx/Ruler

Ruler

Synopsis Ruler [ON|OFF] [[NO]HASHES] [[NO]NUMBERS] [INTERVAL[=]num]

Purpose Change the attributes of the Ruler.

Description This command's various parameters affect the state and attributes of the Ruler. The Ruler is normally a pair of lines, one vertical, one horizontal, that intersect in the document's window at the mouse pointer. The parameter ON|OFF lets you turn on or off the Ruler. The second parameter, HASHES, turns on the hash marks that indicate character positions along the ruler's edges. NOHASHES shuts them off. NUMBERS turns on hash numbering, which places a position number at intervals next to hash marks. The interval can be controlled using the INTERVAL parameter. NONUMBERS turns numbering off. Ruler returns the current state of the ruler in result as follows:

```
"state hash-state number-state interval"
```

where state is either ON or OFF, hash-state is HASHES or NOHASHES, number-state is NUMBERS or NONUMBERS and interval is the current interval value.

See Also None

1.118 Luminus: ARexx/Rx

Rx

Synopsis Rx ARexx-script

Purpose Start an ARexx script.

Description This command allows you to asynchronously start another ARexx script.

See Also ExecuteScript

1.119 Luminus: ARexx/Save

Save

Synopsis Save [file] [MODE[=]mode] [LINE[=]num] [VIDEO[=]prep] [EOL[=]eol]
[ALTESC[=]code]

Purpose Save the current document to disk.

Description This command saves the current document's contents to a file. The file parameter is the filename under which you wish to save it, with optional pathname. If you want to change the way the file is saved without resetting your File Settings, some additional parameters are available.

MODE lets you change the file format by which your file will be saved. The available modes are ASCII (only in Page Editing mode), ANSI, and IFF.

The LINE parameter lets you set the maximum line length that will be saved before a newline is placed. This parameter is ignore if saving in IFF mode.

The VIDEO parameter lets you specify the type of preparation code that will be prepended to the file during its save. Available preps are NONE, HOME, CLEAR.

The EOL parameter lets you set the type of newline that will be used. Available types are CR (carriage-return only), LF (line-feed only), and CRLF (carriage-return and linefeed).

The ALTESC parameter tells Luminus to use an alternate escape

character instead of ASCII code 27. The character to be used is specified after ALTESC.

See Also None

1.120 Luminus: ARexx/SaveSettings

SaveSettings

Synopsis SaveSettings [file]

Purpose Save the current settings.

Description If the file parameter is specified, the current settings will be saved to that file. A path can be specified with the filename. If the file parameter is omitted, the settings will be saved using the last known filename. If no filename is used, 'Luminus.prefs' will be used.

See Also LoadSettings

1.121 Luminus: ARexx/SelectBlock

SelectBlock

Synopsis SelectBlock left top width height

Purpose Mark a block for use.

Description The parameters specify the starting position and dimensions of the block.

See Also DeselectBlock

1.122 Luminus: ARexx/SizeWindow

SizeWindow

Synopsis SizeWindow width height

Purpose Change the current window's size

Description This command's parameters accept any positive value greater than or equal to 100 for width, and 75 for height. This command does not affect the window's position and will not size the window larger than would fit on the current screen.

See Also ZoomWindow, UnZoomWindow, MoveWindow, ChangeWindow

1.123 Luminus: ARexx/StatusLine

StatusLine

Synopsis StatusLine [ON|OFF] [TOP|BOTTOM]

Purpose Change the state and/or position of the status line.

Description This command tells Luminus how and whether or not to display the status lines in the documents' windows. The parameter ON or OFF turns on or off the status line in the current document only. The parameter TOP (or BOTTOM) sets the global flags in Luminus for where the status line should be displayed in all document windows.

StatusLine return the current state of the status line in result as follows:

```
"state position"
```

where state is either ON or OFF, and position is either TOP or BOTTOM.

See Also None

1.124 Luminus: ARexx/Text

Text

Synopsis Text text

Purpose Place text into the document.

Description The text parameter can be any ASCII characters starting at the first non-whitespace character after the command until the end of the line. Strings which contain spaces do not have to be surrounded by quotes, and quotes are treated as literal text as well. The Text command obeys the current directional settings.

See Also None

1.125 Luminus: ARexx/TextBox

TextBox

Synopsis TextBox text [LINETYPE[=]type] [SELECT[=]character]
[BEVEL[=]bevel] [JUST[IFICATION][=]justification]
[LEFT[MARGIN][=]num] [RIGHT[MARGIN][=]num]

Purpose Place outlined/justified text in the document.

Description The first parameter, text, is a quoted text string to place. It

may contain multiple lines, which should be separated by ASCII code 10 (hex 0x0A, a linefeed). By default, the text is left-justified using the current cursor position as the origin. This behavior can be modified (see below).

The LINETYPE parameter lets you specify the type of line that should be used for a box drawn around the text. The line-types available are: NONE, SINGLE, DOUBLE, SINGLEDDOUBLE, DOUBLESINGLE, CUSTOM, and SELECT. If you use the SELECT type, specify the character to be used by using the SELECT parameter.

If you want the box to have a bevelled appearance, use the BEVEL parameter. Valid bevel values are NONE, RAISED and RECESSED.

If the text should be justified, use JUSTIFICATION. Valid justification values are NONE, LEFT, CENTER and RIGHT. If you use justification, you should specify left and right margin values, using LEFTMARGIN and RIGHTMARGIN. If either of these parameters is missing, default values are used: 1 for the left margin, the maximum document width for the right margin. Note that when justification is used, the current column position is ignored and not used, while the line position is.

See Also `Box`, `BevelBox`

1.126 Luminus: ARexx/TextPen

TextPen

Synopsis `TextPen [pen] [[NO]CYCLE]`

Purpose Change the text drawing pen.

Description This command changes the foreground color used for text and drawing. The pen parameter accepts a color register number as its argument, starting at pen 0 to the maximum pen usable on the screen. If the CYCLE keyword is supplied, the background color cycling flag is turned on. NOCYCLE turns it off.

TextPen returns the current foreground pen and cycle flag in result as follows:

```
"pen-number cycle-flag"
```

where pen-number is the numeric color register, and cycle-flag is either CYCLE or NOCYCLE.

See Also `BackgroundPen`

1.127 Luminus: ARexx/UnlockGUI

UnlockGUI

Synopsis UnlockGUI

Purpose Unlocks the user interface, (re)enabling display updates

Description This command is the counterpart to the LockGUI command. It clears the display-locking flag, allowing Luminus to update its displays when called-for. When the UnlockGUI command is issued, display will not immediately be refreshed and updated. To get the displays up-to-date, issue a RedoDisplay command immediately after issuing the UnlockGUI.

See Also LockGUI

1.128 Luminus: ARexx/UnZoomWindow

UnZoomWindow

Synopsis UnZoomWindow

Purpose Restore a window to its original size and position.

Description This will cause the current window to return to its original size and position, becoming "unzoomed." If the window is already unzoomed, nothing will happen.

See Also ZoomWindow

1.129 Luminus: ARexx/UseAppIcon

UseAppIcon

Synopsis UseAppIcon [ON|OFF]

Purpose Inquire about or alter the state of Luminus' AppIcon.

Description If you specify either the ON or OFF parameter with this command, the AppIcon flag will be changed to that state.

This command returns the current state in result.

See Also None

1.130 Luminus: ARexx/VertDir

VertDir

Synopsis VertDir [NONE|UP|DOWN]

Purpose Change the vertical cursor direction.

Description This command allows you to set the vertical direction of the cursor. VertDir returns the current vertical direction in result.

See Also HorizDir

1.131 Luminus: ARexx/WindowToBack

WindowToBack

Synopsis WindowToBack

Purpose Move the current window to the back.

Description This command moves the currently active document's window behind all other windows on its screen (except for backdrop windows).

See Also WindowToFront, ZoomWindow, UnZoomWindow

1.132 Luminus: ARexx/WindowToFront

WindowToFront

Synopsis WindowToFront

Purpose Move the current window to the front.

Description This command moves the currently active document's window to the front of whatever screen it's on, and pops the screen to the front of the display.

See Also WindowToBack, ZoomWindow, UnZoomWindow

1.133 Luminus: ARexx/ZoomWindow

ZoomWindow

Synopsis ZoomWindow

Purpose Resize a window to its "zoomed" size and position.

Description Every Intuition window has two different sets of the position and size values. When a window opens initially, it's said to be in its "unzoomed" state. Clicking its zoom gadget causes it to revert to its "zoomed" state, which is generally smaller and off to the side somewhere. Luminus's document windows default to a "zoomed" size of about 100 x 75 pixels in the upper-left corner

of the screen.

Issuing this command will cause the window to revert to its "zoomed" state. If the window is already zoomed, nothing will happen.

See Also UnZoomWindow

1.134 Luminus: ARexx/Command summary

Command Summary

This sections provides a sort of quick-reference of all of Luminus' ARexx commands.

ActivateWindow
 AtCursor
 Attribute [PLAIN] [BOLD] [ITALICS] [UNDERLINE] [BLINK] [INVERSE] [CONCEALED]
 AttrMode [FORE[GROUND]] [BACK[GROUND]] [ATTR[IBUTE]]
 BackgroundPen [pen] [[NO]CYCLE]
 BevelBox left top width height bevel [line-type [ascii-code]]
 Border [ON|OFF]
 Box left top width height [line-type [ascii-code]]
 BoxLineSettings
 ChangeWindow left top width height
 Clear PAGE|DOCUMENT [FORCE]
 Close [FORCE]
 CloseAttributes
 CloseCharSet
 CloseSwitches
 CmdShell [console-specification] [STARTUP[=]startup-file]
 Column INSERT|DELETE
 Copy
 CreateIcons ON|OFF
 Cursor UP|DOWN|LEFT|RIGHT [amount] [SHIFT] [ALT] [CONTROL]
 Cut
 Delete
 DeletePage [FORCE]
 DeselectBlock
 DisplaySettings
 DocumentSettings
 DrawMode [TEXT|ATTR]
 EditCel [CHAR[ACTER][=]c] [ASCII[=]num] [FORE[GROUND][=]pen]
 [BACK[GROUND][=]pen] [PLAIN] [BOLD] [ITALICS] [UNDERLINE] [BLINK]
 [INVERSE] [CONCEALED]
 EditMode [PAGE|ANIM] [FORCE]
 Erase
 ExecuteScript AmigaDOS-script
 FileSettings
 Font [fontname size]
 GetCel
 GetColumn
 GetLine
 GotoColumn column
 GotoLine line

```

HorizDir [NONE|LEFT|RIGHT]
Insert CODE[=]code|CLEARSCREEN [COLOR=num]
JumpScreen screen-name|NEXT [ALL]
Line INSERT|DELETE
LineType [SINGLE|DOUBLE|SINGLEDDOUBLE|DOUBLESINGLE|CUSTOM|SELECT]
LoadSettings file
LockGUI
MoveWindow left top
New [PORTNAME [=]ARexx-port] [SCREEN [=]public-screen]
NewPage APPEND|INSERT
NextPage
Open file... [PORTNAME [=]ARexx-port] [SCREEN [=]public-screen]
OpenAttributes
OpenCharSet
OpenSwitches
OpsSettings
Overlay file...
Paste
Pause KEY|TIMED [=]val
Position SOD|EOD|SOV|EOV
PresetColor A2024|AMIGA|ANSI|EGA|FROMWB
PreviousPage
Quit [FORCE]
RedoDisplay
Redraw speed
RestoreDefaults
Ruler [ON|OFF] [[NO]HASHES] [[NO]NUMBERS] [INTERVAL [=]num]
Rx ARexx-script
Save [file] [MODE [=]mode] [LINE [=]num] [VIDEO [=]prep] [EOL [=]eol]
    [ALTESC [=]code]
SaveSettings [file]
SelectBlock left top width height
SizeWindow width height
StatusLine [ON|OFF] [TOP|BOTTOM]
Text text
TextBox text [LINETYPE [=]type] [SELECT [=]character] [BEVEL [=]bevel]
    [JUST[IFICATION] [=]justification] [LEFT[MARGIN] [=]num]
    [RIGHT[MARGIN] [=]num]
TextPen [pen] [[NO]CYCLE]
UnlockGUI
UnZoomWindow
UseAppIcon [ON|OFF]
VertDir [NONE|UP|DOWN]
WindowToBack
WindowToFront
ZoomWindow

```

1.135 Luminus: Miscellaneous

Miscellaneous

This chapter basically covers, well, miscellaneous things that usually can't be place anywhere else, plus just some tidbits of information.

Caveats

The Amiga supports multiple menu selections during one menu event. If you are not familiar with this, what it does is allow you to click with the left mouse button on several menu items without having to re-access the menu with the right mouse button. Luminus is designed to respond to these "chained" menu events. Certain menu items allow you to close and re-open windows, such as screen jumping and changing the screen mode of the custom screen. When the window that generated the menu events is closed, its menu structure is temporarily "lost", and any chained menu selections with it. So beware when multi-selecting an item that may close your window.

I've also tried using Luminus with MagicMenu V1.29. Menu selection is almost flawless, except when you try to select a menu item while you have a block selected. The block ends up getting deselected, and some menu selections become invalid, since it relies on the existence of the block. I don't know why it's happening, and I can't think of a way around it, except to disable MagicMenu while Luminus is running.

The Future

The following items are on my to-do list for future versions of Luminus. If you think of an item that is not in this list, please feel free to drop me an e-mail or postcard.

- Scan modules. These would be mini-scripts that could instruct Luminus on how to "redesign" an animation.
- Line drawing mode.
- Fonts. Possibly an internal-format font set for large lettering, and support for drawing Amiga bitmapped fonts.
- Undo and Redo.
- Flood fill.

Authenticity

If you want to be sure that the files in this archive are authentic, I have enclosed below my PGP public key. All binaries and documentations are accompanied by a PGP signature file, which can be used to verify the authenticity of each file.

```
-----BEGIN PGP PUBLIC KEY BLOCK-----
```

```
Version: 2.3a.3
```

```
mQA9AjDsJFIAAAEBgMkAGST6HFaQYNFjkZebpoaFUjsiwCIHxooGtDbao2lEE7FH  
Oq9IsVSq8gjAbRcJKQAFebQuUGF1bCBBLiBTY2hpZmZlcmVyIDwxMDMxNjcuMTAz  
QGNvbXB1c2VydUuY29tPg==  
=e6P8
```

```
-----END PGP PUBLIC KEY BLOCK-----
```

1.136 Luminus: Program history

History

0.2 06 Jan 1996 - Second beta release.

Bugs fixed:

- 'Edit cel...' wasn't activating its window. Fixed.
- The settings gadgets in the Document settings panel for ruler hashes, numbers and interval stayed ghosted when 'Ruler?' was enabled via mouse click. Fixed.
- The ASL requester wasn't getting reset to ask for files after being used as a directory requester. Fixed.
- Closing the Attributes and Character Set windows would sometimes crash the computer. Fixed.
- Luminus would flash the screen on an error regardless of the 'Beep on error?' setting. Fixed.
- The Operations Settings panel was generating some Enforcer hits. Fixed, I hope. :)
(Bug report by Alex May.)
- ARexx command TextBox was impotent, i.e., there was no code. I forgot to write it. Oops, silly me. :| Fixed.
- There was an insidious little bug in the gadget layout code for the Attribute window that caused the gadgets to be improperly sized when running under OS 3.0 or higher. Fixed. (Sorry 3.x users.)
(Bug report by Patrick Gern.)
- The gadget layout code for the Switches window didn't account for font size in the cycle gadgets. Fixed.

Additions:

- Compiled date and time of program now shows in 'About...' window. (Big deal, right?)
 - Header and Footer text can be specified that will be saved before and after, respectively, every file.
(Suggested by Alex May.)
 - There's a switch now to specify whether you want overlaid documents loaded using the top-left corner or the cursor position as origin.
(Suggested by Alex May.)
 - ARexx command for block selection: SelectBlock. Small oversight, don't you think?
 - Ability to save to file a blocked area, via menu and ARexx.
-

(Suggested by Alex May.)

- Reopen Document menu item.

Deletions:

- The ToolTypes (and command-line options) NOPOPPUB and NOSHANGHAI have been removed.

Changes:

- The Text panel and all the settings panels are now non-blocking windows.
- If a custom screen is opened, the global flags SHANGHAI and POPPUBSCREEN are automatically set.
- Fixed some typographical and spelling errors in the program, documentation, and AmigaGuide(tm) file. Also fixed some hypertext errors in the AmigaGuide file.
- Removed '%p' from default status line, since it doesn't do anything (it did in an alpha version).
- Luminus' online-help always attempted to open on the public screen "LUMINUS", whether it was open or not. It now will try to open on the public screen specified in Public Screen in the Document Settings panel.
- 'Overlay...' now works for all editing modes, not just Animation mode.
- Character Set window is now sizeable, so you can display any number of characters in the character set.
(Suggested by Patrick Gern.)
- Compiled with the shiny new SAS/C 6.56 Compiler.
- Luminus is no longer compiled with optimization, since there was never a noticeable difference in size or speed between optimized and non-optimized executables. Besides, I think the optimized code was generating Enforcer hits, which is a bad thing.

0.1 23 Oct 1995 - First beta release. Wheeee! :)

1.137 Luminus: nothing

Nothing!

What'd you think a button marked 'nothing' was going to do???
