

Iris

COLLABORATORS

	<i>TITLE :</i> Iris		
<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>	<i>SIGNATURE</i>
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REVISION HISTORY

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1.2 Introduction

Have you ever found a mailer which has everything you want? I don' ←
t think

so. This yet another attempt to create a mailer. I am not satisfied with the mailers which are present for Amiga. Some use MUI (I hate it!), some have the terrible tendency to crash often, some are shareware with much limitations (e.g. a time limit) and high prices, some are very slow, some have poor support for using the same POP account from office and home, and others are not strong in the feature department.

Iris is a figure from Greek mythology. Besides, the word means "rainbow". Iris is a messenger of the gods. She comes down as a rainbow. This program belongs in the divine company of Thor, Pegasus and Eudora, and therefore this name was chosen.

Features:

- * You can double click on URLs to browse them.
- * You can double click on email addresses to mail to them.
- * It does not use MUI.
- * It is stable.
- * It supports Eudora's and Exchange's Priority and Return-Receipt header fields.
- * It has excellent filter capabilities.
- .
- * Extensive use of multitasking.
- * Keyboard shortcuts for most functions.
- * Excellent for using a POP account from more than one location.

Iris is written in AmigaE (v3.1i). AmigaE is similar to C, but it has some additional features like exception handling and it compiles incredibly fast. AmigaE is copyright Wouter van Oortmerssen. Iris uses BGUI for its graphical user interface.

1.3 Disclaimer

I am not responsible for any damage this software may cause, including but not limited to lost mail or lost files.

1.4 Installation

An Installer script is provided that takes care of all necessary installation steps.

The script performs the following tasks:

- * Installs the program.
- * Installs the guide.
- * Installs the correct script from BrowseWWWscripts.
- .
- * Installs the Poll.irx script.
- * Copies icons.
- * Installs the bgui.library (version check).
- * Installs the bgui_popbutton.gadget class (version check).
- * Checks for TZ ENV variable

The variable TZ must be set in order to enable Iris to include the correct timezone in the Date: header field.

You must do a
 minimal configuration
 .

1.5 Quick start

To be able to use Iris, you must at least do a minimal configuration.

- * From the menu Configuration/Config..., choose 'Network'.
- * Fill in all the gadgets.
- * Choose 'Composing'.
- * Edit your default signature, that will be added to messages you send.
- * Click on the Save button to store the configuration.

1.6 Composing mail

When you select "New" or "Reply" or double-click on an email ↔ address, the

\$EDITOR

will be invoked. It is important that you save first before exiting. If you don't do this, the operation will be cancelled. Then a window will pop up, where you can set headers. Watch out: you cannot type multiple addresses in the "Edit address" gadget! You can choose a signature too. If you don't want a signature, leave the "Signature" gadget blank.

The program generates the following headers (in this order):

```
To: & Cc: Contents of the Recipients listview, each address on a separate line
From: config.emailaddr
Subject: Subject gadget
X-Mailer: Iris V... registered/demo - Amiga Mailer by Jilles Tjoelker
Date: for example Tue, 11 Nov 1997 11:32 +0100 <- from TZ ENV variable
MIME-Version: 1.0
Message-ID: <seconds.micros@iris.processaddress> <- in hex without prefix
if registered: X-Registered-To: keyfile.name (keyfile.regid)
if RR gadget: Return-Receipt-To: <config.emailaddr>
if RR gadget: Disposition-Notification-To: <config.emailaddr>
if HighPri gadget: X-Priority: 1 (Very High)
if HighPri gadget: Importance: high
all headers from the Extra headers list
all other MIME stuff
```

1.7 Reading mail

Controls which may not be immediately clear:

Sort on ID: This effectively means: date. These 32bit IDs are given in numerical order by Iris. They have nothing to do with Message-ID or UIDL!

buttons and hot-keys:

1. You can cancel these keys by pressing SHIFT or ESC while the key is still pressed.
2. The texts after the "=" signs are the filenames in the Buttons drawer.

```
(0=Check) c: check for new mail and send mail
(1=NewMsg) n: new message
(2=Reply) r: reply
(3=ReplyAll): reply all - not yet implemented
(4=Forward): forward - not yet implemented
(5=Prev): previous folder/message
(6=ToList) l: show list (message text -> message list -> folder list)
(7=Next): next folder/message
(8=Sort): select sort key
(9=Delete): delete message
(10=Save) s: save the contents of the body listview
(11=Print): print the contents of the body listview
(12=ToAddrBook): add the From: address to the address book
(13=Find): search text in the message
(14=ShowHdr) h: show headers yes/no
```

```
DEL: delete message
on the message list page:
left/right: next/previous folder
up/down$^1$: next/previous message
return/enter/double-click: go to the message page
on the message page:
left/right$^1$: next/previous message
up/down$^1$: move up/down the active line
numeric keypad 1/2/3/7/8/9: scroll through the message
return/enter/double-click: do something with a line:
  ...http://...
                Start Web browser
                \ The first one in
  ...@...
                Send e-mail
                / the line is used.
white text      save attachment (last line -> no effect)
```

The Flag column

* means unread, S means unsent, space (the default) means nothing special.

\$^1\$ with shift is page, with alt is extreme

1.8 EDITOR environment variable

This variable should contain a command to call an editor. It is important that the editor runs synchronously, otherwise the program will detect that you had not saved and cancel the operation. Most editors do work synchronously. A well-known exception is CygnusEd. You must set \$EDITOR to "ced -sticky" if you want to use CygnusEd.

If the EDITOR ENV variable does not exist, Iris will use Ed (without any

options).

1.9 Mail checking

Iris does not have a built-in mechanism to regularly check whether new mail has arrived. This function is realised by an ARexx script, Poll.irx. To enable this function, double-click the icon after starting TCP/IP and Iris. The script will now poll the post office every 3 minutes. You can change this to any value you like. At the same time, queued mail is sent.

1.10 Configuration: Network page

```
Network
Composing

GUI

Folders

Filters
E-Mail address, real name, POP host, SMTP host, Username, Password ↔
:
```

Fill these in.

Delete mail from server: If checked, the mail will be deleted immediately after downloading.

Only new mail: If checked, only the new mail will be downloaded. This uses the optional UIDL command of POP3. If it generates errors you'll have to turn it off. When this option is off, the UIDLs will not be recorded.

When this option is on, a file "PROGDIR:Mail/UIDL" will be created.

UIDLs are unique IDs for each message, which are never reused for the same mailbox. They can be up to 70 characters long.

Expunge deleted: Not Yet Implemented. Only useful if the above gadget is checked too.

Show comm. windows: If checked, the communication with the server will be visible in a window (one for sending mail, one for receiving mail). If an error occurs, the window will always pop up.

1.11 Configuration: Composing page

```
Network
  Composing
  GUI

Folders

Filters
Quote header, quote prefix: These are used to quote in replies.
```

1.12 Configuration: GUI page

Network
Composing GUI
Folders

Filters
Column Weights:

With these you can change the width of the columns of the message list window. Please note that the preview is not perfect: it does not handle the small size of the Flag+ID column.

Fonts:

With these you can change the fonts used for the message list and the message text. Please note that a change only takes effect after restarting the program.

1.13 Configuration: Folders page

Network

Composing

GUI
Folders
Filters

On this page you can create and delete folders. The "Use" button ↔ should not

be used when you have changed this. Deleted folders are deleted immediately after you have pressed the "Save" button. New folders are not created until you have selected them.

1.14 Configuration: Filters page

Network

Composing

GUI

Folders
Filters

On this page you can create and delete filters. You can change the order of the entries in the listview with the drag-and-drop mechanism. The size of the columns can be changed by dragging the separating lines. Double-click on a filter to edit it.

The gadgets in the "Edit folder" window:

From: this AmigaDOS pattern is matched against the contents of the From field. If "##" is in it, the address book will be searched for the address instead.

To: this AmigaDOS pattern is matched against the To header field.

"##" Means address book.

Subject: this AmigaDOS pattern is matched against the Subject header field.

Body: the whole body of the message will be searched for this substring. It can be slow for long messages.

To folder: the message will be moved to this folder, if all above conditions meet. Empty fields are ignored. The type of this folder is important: only messages of the correct type will be checked.

Examples: (/ separates fields)

- 1) ##////Inbox -> puts mail from people in the address book to the inbox.
- 2) /friend@public.com///JUNK-MAIL -> puts some spam to JUNK-MAIL
- 3) ///JUNK-MAIL -> under 1), puts strange mail in JUNK-MAIL (always matches, any filters below are ignored!)

1.15 Iris and browsing the Web

By double-clicking on a line of a message which contains an HTTP URL, you

can view the URL with your browser. To use this, you need to copy a REXX script that is specific for your browser.

The Installer script does this for

you. The script should be put in the same directory as Iris and named BrowseWWW.rexx. It has one argument: the URL.

It might be necessary to change the path where your browser can be found in the scripts.

The other way around, a web browser can call Iris to send an email message.

The general call is: Iris MAILTO <email address>

In AWeb, you must define this under Network settings/Extern/mailto: (watch out: click in the gadget first, and press return when you are ready!)

In other browsers, use a similar method.

1.16 X-Priority and Importance header fields

The fields which are used to mark a message as important:

Eudora:

X-Priority: <number> (description)

The number is in the range 1-5. 1 Means very high, 3 means normal and 5 means very low.

MS Exchange:

Importance: <text>

Possible texts are: high, normal, low.

You can mark a message as important with the checkbox "High Priority" in the

Compose mail window

.

1.17 Disposition-Notification-To and Return-Receipt-To header fields

The fields which are used to ask for a return-receipt:

Eudora:

Disposition-Notification-To: <emailaddress>

The receipt is not sent until the "unread" flag is removed. The program will ask if you want to send a return-receipt. According to the standards, the receipt contains what you do with the message (delete, move). This is a violation of privacy and is not done by Eudora.

MS Exchange:

Return-Receipt-To: <emailaddress>

The receipt is sent as soon as the message has arrived.

Iris sets both in messages with return-receipt on. Return-Receipt-To is treated as if it were Disposition-Notification-To, as it does not make sense to send two receipts. Iris will always ask if you want to send a receipt.

1.18 About BGUI

I have used the BGUI library for the GUI. As the development of this library seems to have ceased and it's hard to get the library, I have included the library (SYS:Libs/bgui.library) and a separate class (SYS:Classes/Gadgets/bgui_popbutton.gadget) in the archive. It is the last version 41.8. Since I only have the Extended AmigaOS3.0 & 68020 version, you cannot use it on lower systems. Please send me the normal version! Versions lower than 41 do not suffice due to the extensive use of multi-column listviews.

Bugs in BGUI which I have noticed (workarounds between brackets):

1. Listviews

- * Adding an entry to a listview does not refresh it, if no scrolling is required. (don't supply the window pointer with LVM_ADDSINGLE but do a LVM_REDRAWLIST thereafter)
- * Changing the column weights does a partial redraw. (don't supply the window pointer but do a LVM_REFRESHLIST thereafter)
- * When dragging an entry in a listview a line will appear. The line after the last entry does not disappear when moving to another place.
- * When dragging the mouse to above the first entry, the selected entry flickers between the first and the first not visible entry.
- * When dragging a column to make it smaller or larger, the line indicating the place is on the wrong place until the mouse has moved.
- * When dragging the columns they cannot be made smaller than 2 Topaz 8 characters, but using column weights they can be made smaller (but not always: message list: yes, attachment list: no).

- * Changing the top entry of the listview causes problems when the list fits completely in the gadget.
- * Scrolling a list which is on a concealed page redraws it.
Example: have enough messages in the list, select the bottom message and go to have it on screen. Then press the right arrow. First, the message list appears, then the message, leaving behind a part of the message list. (don't supply the window pointer to lists on concealed pages)
- * Scrolling a list in a SimpleRefresh window (all Iris windows) which is partly concealed does not work correctly.
- * When all entries fit in the view area, the top of the first entry is just below the frame. If this is not the case, the visible entries are centred. If you add entries, the above part is not erased.
- * The message list page causes Enforcer hits (read/write byte \$00000008). Most likely this is caused by the listview.

2. Cycle gadgets

- * The cycleclass accepts changing of the labels (which is not allowed according to the autodocs) and causes reads from address 0 when the new list is shorter. (don't use a cycle gadget when labels need to be changed)
- * Infoclass command sequences (the bold letters B and Q in the "Encoding" gadget in the "Edit Attachment" window) are shown as strange characters in the popup window (don't use popup for this. It is not necessary anyhow.)

3. All gadgets (baseclass)

- * Usage of BT_ToolTip (hold the mouse pointer still above a gadget, and a help text will appear until you move the mouse) causes crashes.

4. Labels (labelclass)

- * Labels on a window with a background pattern are handled inconsistently. (Iris never uses background patterns.)

I include a description of BGUI below:

BGUI is a graphical user interface library, written by Ian J. Einman, for the Amiga computer which allows for easy, flexible and fast GUI creation. It is based on BOOPSI (Basic Object-Oriented Programming System for Intuition) and consists of a single shared library which is easy to install.

- Programmers:

- * BGUI gives you the ability to easily create automatically font sensitive and resizable windows. You won't use gadtools.library again!
- * BGUI handles input and notification; your application can almost run by itself.
- * BGUI has been used for many projects, and is well tested and developed. There are many other experienced programmers who can help you get started.
- * BGUI interfaces can adapt to user preferences, and localize themselves.

- * BGUI comes with enough object classes to get you going, and third parties have written classes as well. Example source is included to show you how to write your own.
- * BGUI is free! No license or fees required for shareware or commercial usage.

- Users:

- * BGUI interfaces are font sensitive, resizable, often localized, and can adjust to your preferences.
- * BGUI has far smaller memory and disk requirements than other GUI systems, while retaining the most important features.
- * Many BGUI applications include everything you need to get started, there is rarely a need to obtain yet another file.
- * BGUI is free!

- The authors of BGUI:

- Original BGUI resources - Jan van den Baard
- BGUI C headers and libraries - Ian J. Einman (74271.2766(a)compuserve.com)
- BGUI AmigaE modules - Dominique Dutoit (ddutoit(a)arcadis.be)

The (a) means an at sign. AmigaGuide uses this character for commands, that's why I can't show it here.

Do not expect success when contacting these people! It's difficult to find BGUI stuff on the Internet too.

1.19 The AREXX interface

Iris has an ARexx interface. The commands use standard ReadArgs() templates. An example of the use of ARexx is the 'Poll.irx' script. This script periodically checks for new mail (only if online).

List of commands:

?

Gives the list of commands with their templates.

READMESSAGE FILENAME/A,TYPE/N/A,FLAG

This command is used by the asynchronous mail getting. It automatically handles folder selection. If the TYPE parameter is 0, the message is put in an IN folder. If the TYPE parameter is 1, it is put in an OUT folder. The FLAG is the same as the leftmost column of the message list: * means unread, S means unsent, space (the default) means nothing special. Do not supply other flags to prevent collisions with future versions.

QUIT

Quits the program.

GETMAIL

Starts checking for new mail.

SENDMAIL IMMED/S

Starts sending mail. If the IMMED switch is on, no window will appear if there is no mail to send.

REGISTER

Pops up the registration form window.

INFO

Returns the X-Mailer string, including "X-Mailer: ".

ASKSCREEN SELECTED

Asks for a public screen. If the user cancels, RC will be 10.

GETSCREEN

Returns the name of the public screen Iris is on.

ASKCHOICE TITLE/A,BODY/A,GADGETS/A

Pops up a requester. Separate the lines in the body with a linefeed ('0a'x) and the gadgets with a vertical bar ('|'). All percent signs must be doubled; if you don't, results are undefined.

GO L=LIST/S,M=MESSAGE=T=TEXT/S

Sets the active page. Please note that the selected message is not loaded in the window!

FOLDERNAME NUMBER/N/A

Returns the name of folder NUMBER. NUMBER range is 0..N-1. If NUMBER is wrong, RC will be 10.

ASKFOLDER SELECTED

Lets the user select a folder; the name is returned in RESULT. If the user cancels, RC will be 10.

GETFOLDER

Returns the name of the current folder.

SETFOLDER

Sets a new current folder. Wrong name -> RC=10

ASKSORTKEY

Puts up the "sortmethod" requester. If the requester is cancelled, RC will be 10. Otherwise, the number of the key is returned. Numbering starts at 0 for the top gadget.

GETSORTKEY

Returns the active sort key.

SETSORTKEY

Sets a new sort key. If the number is out of range, RC will be 10.

SELECTMESSAGE NUMBER/A/N

Selects a message in the message list. Counting starts at zero.

MESSAGEFILE

Returns the filename (full path) of the selected message; if there is no selected message, RC will be 10. If the message file is not present (strange error), RC will be 9.

MESSAGEINFO

Returns the selected entry in the list; tabs separate fields. Again RC=10 means that there is no selected message.

DELETE

Deletes the current message.

1.20 CLI interface

POP/S, PDELALL/S, CURFOL/N, REPLY, MAILTO, SUBJECT, SMTP/S, SMTP-I/S, ↔
PUBSCREEN/K

POP/S - Get mail

PDELALL/S - Delete all mail on server

CURFOL/N - Set the current folder. Numbers start at zero.

REPLY - Reply to this message. It needs a

MESSAGEINFO

result.

This line must come from the folder indicated by CURFOL!

MAILTO - Set the To: address and the Subject field.

SUBJECT - Override the default subject

SMTP/S - Send mail; an error window will pop up if there is no mail to send.

SMTP-I/S - Send mail without an error window if there is no mail to send.

Inclusion of any of REPLY, MAILTO, SUBJECT will cause the

Compose window

to pop up. This may be combined with SMTP to send the message ↔
immediately.

Usage of any of these options (except CURFOL) will inhibit

mail reading

and

the

ARexx interface

.

1.21 Shareware

Iris is shareware. You are not allowed to modify this program or ↔
this guide.

The differences between the freeware version and the registered version:

*

X-Mailer and X-Registered header fields

* Requesters at program start and end

* Text in "About"

* A keyfile

If you want to have a keyfile, send me the registration form (the program can generate this for you) and 5 US\$, 10 DM or (preferably) 10 NLG or a similar amount in another currency. Please send me only notes. In response, I will send a personalised keyfile, by email. If serious bugs show up, I will send all registered users a fixed version. You will also get at least one new

version. (If you don't receive the keyfile within a reasonable time or if you lose the keyfile, mail me to ask to send it again.)

If you don't like to give your (physical) address to me, leave out the name of the street, etc. The E-mail address is essential, however! I promise not to pass either your address or your email address to anyone.

My address is:

E-Mail: M.Tjoelker@nl.cis.philips.com

Snail mail:

Jilles Tjoelker
Craterlaan 6
5632 AG Eindhoven
THE NETHERLANDS

1.22 Backgrounds

The following RFC's were used in the creation of Iris:

821 Simple Mail Transfer Protocol (SMTP)
822 Message format for SMTP
1939 Post Office Protocol version 3 (POP3)
2045 and 2049 MIME

1.23 The Future

The following things may be implemented/fixed in the future:

- * Forward/resend function
 - * Reply-All function
 - *
 - Expunge deleted function
 - * Multiselect in message list
 - * Nested MIME and messages
 - * Media type 'text/enriched'
 - * Encryption
 - * More sophisticated forms of multitasking
 - * Anything you suggest
-
- * Currently RX must be in SYS:REXXC; I hope to be able to solve this.
 - * Deletion of the first message in the list does not work correctly. Then the listviewclass does not want to select an entry unless it can render, i.e. the message list must be visible.