

MacLex, version history / bug fixes.

(beta, June '91) - sent to Jaars & CAB, 12-June; & Bill Ekermann (PNG)

version 1.0b1.1, 17 June, fixes the following bug.

User types "New" button in lexicon mode, and enters record with no header data, and clicks on divisions dialog button to exit record entry mode - the alert warning of the empty header covers part of the divisions dialog box and the latter does not get updated. Also, the scroll bar on the edit window is not hidden after the preceding sequence of actions is followed. (Reported by Bill Eckermann)

version 1.0b1.2 19 June

This version fixes a bug whereby in some circumstances if a divisions button was pressed after a record had been moved from one file to another, the source file (or sometimes the target file) would be moved in memory and MacLex would lose track of it, with the screen showing garbage when the 'next' (or 'previous') arrow was pressed.

version 1.0b1.3 June 29

This version fixes the following bugs:

- (a) when editing a file, if the font size was changed the right of the window was left blank (about a 1 inch vertical strip); and the scroll bars were not redrawn properly. (Bill Eckermann)
- (b) if the user edited a file with a font size different than 12 point, then closed the window and loaded a lexicon, the font size was not remembered and 12 point font size was used - disagreeing with the ticked size in the Size menu. It now remembers the size and agrees with the size currently ticked. (BW)
- (c) if a lexicon was loaded and user fast forwarded through a few records, then exited the lexicon and choose Reverse... , and then choose Preview... and then opened a file, MacLex would crash. (BW)
- (d) if the user used lexicon mode, then did a reversal, a message that HUnlock had failed would come up and MacLex would exit leaving temporary files mixed in with the source files. (BW)

(e) in lexicon mode, if the user had the 'ignore parenthesized data' option on, and entered a new record with initial parenthesized data and which also required a new divisions button, then the record was placed in the data correctly, but the new divisions button incorrectly showed an opening parenthesis as its button name. (Bill Eckermann)

Version 1.0b1.4 July 16 The following features were added:

- (a) This version makes the reversal setup dialog and the preview dialog both nonmodal. This allows the user to click on the window having the input record, or a reversed set of records, and scroll down to see anything below the bottom of the view rectangle. It also allows the user to modify the input records in preview mode if he wishes; such changes are not remembered by MacLex, so are quite safe to do.
- (b) In lexicon mode the record number of the currently visible record appears at the right of the control bar at the bottom of the screen.
- (c) The Find and Change dialogs are now implemented better - no visible difference to the user though.

Version 1.0b2.0 July 19, 1991

Implements some of the functions of the Find menu item when in lexicon mode. During the process, a number of previously undiscovered potential bugs turned up. The following have been fixed.

- (a) Hitting one of the Edit, Delete or New buttons while in editing with the screen scrolled up would result in the records not appearing at the top as expected, and if Edit is subsequently hit, then the scroll bar thumb setting would be out of kilter with the text displayed.
- (b) Recovering deleted records failed to display them after their reinsertion, leaving the window blank. (This was working okay in some earlier versions, but subsequent changes mucked it up. It's now okay again.)

What happens when the user resizes the editor window has been changed. The text is now automatically wrapped for the new size. This means the horizontal scroll bar can never be active since destination and view rectangles are now tied to each other. (This is probably what users want. Changing it involves only one line of code, so I could easily change it

back. Or, add the capacity for the user to choose which he likes. In such a simple editor, there is little point to resizing the window anyway.)

Find menu item in the Search menu is now partially implemented. It allows setting up a range of records to be searched in. It displays matched text in the window with inverse highlighting, but still requires the user to type Edit to get access to the window to make changes. The window scrolls as necessary. Searching in nominated fields, or excluding fields from the search, is not yet supported, nor is the list compiling stuff in the lower right of the dialog.

version 1.0b3.0 July 27 1991

Implements support for screens larger than 512 by 342 pixels; and for menu bars with height greater than 20 pixels.

For large screens, 108 divisions buttons are now available; the limit for the standard small screen remains at 72. If users want, it would be a very simple matter to increase the 108 limit; the only cost would be a slowing down of the updating of the divisions buttons display when redrawing is required.

version 1.0b4.0 July 28 1991

Completes the implementation of the Find dialog in lexicon mode, except for the list compilation stuff at lower right of the dialog (these 3 items do nothing as yet).

version 1.0b5.0 August 1 1991

Implements the Change dialog in lexicon mode, except for the list compilation stuff at lower right of the dialog. Also, will not allow the user to do a Replace All when replacing "In header only" - that would be too dangerous eg. could lead to infinite replacements.

The following bugs are now fixed:

If the user clicked a divisions button while the Find or Change dialog window was active (ie. frontmost), then the divisions buttons were not redrawn when the Find or Change dialog was sent to the back.

Clicking on the main window when a Find or Change dialog was frontmost would select the window (it shouldn't). Now it doesn't - the user can get there only via the Edit button.

version 1.0b6.0 August 20 1991

Implements the View button in the command bar. Adds support to the Preferences dialog for viewing only specified fields, and a check box to turn the feature on and off without having to clear the list of tokens. Default, if no tokens are specified, is to just display each field in the record (as many as will fit).

The following changes or improvements have been made:

1. If a header is entered in the command bar and the search fails, a radio button in the Preferences dialog allows MacLex to fall straight into View mode at the place where the record would have been if it had been present - useful for quick visual feedback of what actually is there.
2. The current font may be permanently set via the Save Settings button in the Preferences dialog - the dialog also displays the font's name. (It can't be changed from within the dialog.)
3. If a template is used with the New command, and the user types nothing but instead exits to the command bar by hitting the ENTER key, then no longer does he need to clear two warning messages, these are bypassed provided nothing has been typed.
4. The command bar uses Chicago font for the buttons and the record number display - it looks a bit nicer.

version 1.0 Sept. 1991

This version has enough in it, and sufficient stability, to warrant being distributed as version 1.

Fixes the following bugs:

1. If a record was deleted from an early file, and then a new record entered at the end of the lexicon, while the file would be updated correctly, the new record would not display on the screen - instead, part of the former last record would be displayed. (BW)
2. If the user was in lexicon mode then exited the mode and then tried to do a Reverse Lexicon, the program would crash. (BW)

3. If the user chose Reverse Lexicon, & forgot to specify the input files using the Input button, but did a Preview before initiating the reversal, MacLex was fooled into thinking Input had been specified and the warning message was bypassed, leading to an FSOpen failed ...-43 error message ("File not found") & termination of the program.
4. When Reverse Lexicon was chosen, some menu items which should have been disabled were still enabled.
5. If the Preferences dialog was invoked from either lexicon or viewing mode, when the OK button was pressed the application did not respond to some buttons properly, and the data window was left blank.

Note: if you use the system init called Macsbug (an object code level debugger for programmers), and run MacLex under MultiFinder, then for a reason I have not been able to trace MacLex will crash if you type anything in the special sorting order box in the load lexicon dialog. The problem disappears, and MacLex works fine under MultiFinder, if you do not allow Macsbug to be loaded on system startup (give it a name other than Macsbug and then restart, and it will not load). - the bug was not completely fixed until version 1.1d.

Version 1.0 also implements the "Compile Trace List" checkbox, and associated buttons in the Find and Change dialogs. Three new commands are added to the Search menu to add or delete the current record to the list, and to toggle the arrow buttons to step through either the whole lexicon or just the records in the trace list.

The constraints on the Replace All button have been weakened. Now the button (and its menu item equivalent) is disabled only if the target string is found to be contained within the replace string.

Reversal now puts up a watch cursor while MacLex is busy.

The next and previous arrow buttons have been modified so that the user can specify a delay of zero or more ticks (1 tick = 1/60th of a second). A value of about 5 gives good results. A value of 0 is equivalent to no delay. The Preferences dialog includes an edit text box where the user

can set the value of the delay parameter; and the Save Settings button preserves the value across restarts of the application.

The Export... function is now implemented, it is on the File menu. It creates a folder in which to place the exported file (or files). Each export to a folder of that name clears out the earlier contents and writes in the new file or files.

Strings which the user is likely to see displayed have been made into 'STR ' resources, so that non-English speaking users can use Apple's utility resource editor called ResEdit to translate the string messages into their own vernacular. The only strings not converted to resources are those used for toolbox error messages. These are unlikely to ever appear - but if they do, they will be in English.

Note: both myself and another user have encountered the following system error message:

Sorry, a system error occurred.
coprocessor not installed.

There is a fault in System 6.0.7 in which this message can come up even on a plain vanilla Mac SE (such as mine) which cannot possibly ever have a coprocessor. However, despite this, if you get this bomb then something has gone wrong. (This bug was not fixed until version 1.1d.)

Unknown possible bug.

Once only, after having reversed a lexicon under MultiFinder, when I loaded the reversed files, MacLex hung part way through the load process. The files loaded fine after shutting down and rebooting the Mac. I have not been able to reproduce this error.

version 1.0a 3-Oct-91

Fixes the following bug:

When the Restore Deletion dialog is put up, on a large screen the dialog appears mid screen instead of being below the data window. (BW)

version 1.1 6-Oct-91

Bill Eckermann requested the ability to change templates by clicking on the command bar. This is here implemented

with four vertical boxes, the current one is blacked; template 1 is top box, template 2 is 2nd box, etc. Bottom box means 'no template is active'.

version 1.1a 12-Oct-91

Fixes the bugs:

When Preview is chosen on a large screen Mac, the command bar is mid screen rather than at the bottom. (BW)

The Change dialog would sometimes allow a Replace All in dangerous circumstances (ie. when target string is contained in the replace string), allowing infinite recursion of replacements in the header field. (BW)

version 1.1b also 12-Oct-91

The Output button was altered for Sort mode, so that if the user chooses to sort a single file, then the autofilenames option will not be available. MacLex allows a single file to be sorted into more than one destination file only provided the sort "Folder..." option is chosen.

version 1.1c also 19-Oct-91

Fixes the bugs:

1. Having accessed several files, when memory is tight, MacLex would fail to detect when memory was used up and crash instead of deleting some files to free up some space.

This version was made a bit more multifinder-smart; it now can use WaitNextEvent when multifinder is active.

MacLex also no longer will crash if the user reverses records such that many of the resulting header fields are empty. These sort first in the sorting order, and previous versions of MacLex would crash if the header was null when MacLex tried to form the second output filename. Now it uses the previous name, but with an added 'A' character on the end, whenever necessary.

The following feature has been added: the wedge buttons in lexMode now scroll the record display up or down 10 lines at a time; so the user can view what is below the bottom of the screen without having to hit the Edit button.

version 1.1d Oct 1991

Fixes the bug:

1. When loading the lexicon, as soon as the load completes MacLex would crash with either a system error of 28 ("Stack collision with heap") or with a "Coprocessor not installed" - usually the former.

MacLex is now more smart when memory is tight. It now checks that two copies of the largest input file can be loaded, plus some extra space for editing changes. If this cannot be satisfied, a warning is given. Also, if there is not enough memory space for the index table, MacLex aborts with an error message. Finally, if space is low (twice the largest file plus 20kb), a warning message is given.

The template boxes have been made wider - the user can do this anytime with ResEdit if he wishes to make them wider still.

version 1.1e March 1992

The following minor bugs have now been fixed:

- (a) Find Again was enabled when user had not typed a search string, and crashed the system if invoked.
- (b) Replace options were sometimes active when they should have been disabled, leading to a crash if invoked.
- (c) A null replacement in edit mode left the wrong characters selected.
- (d) Saving a file, in edit mode, would sometimes blink the screen several times and mess up the thumb position, making the bottom few lines of a file unable to be read. (The fix for this involved removing the "one-of-file" character which MacLex automatically inserted to show users where the file ended. It is nicer to not have this, and also faster.)

The following features have been changed or added:

1. Preferences are not saved in the MacLex resource file any more. Instead, they are saved in a separate preferences file, of file type MLXP. This allows the user to have several different preferences files, for different lexicons. Doubleclicking the desired preferences file is now the best way to start MacLex so that the desired preferences are immediately in effect prior to loading of a lexicon.

2. Some menu items for semantic categories have been added to the Search and Lexicon menus, but they do not yet do anything.
3. The user can now also launch MacLex by double-clicking any file of type TEXT that was produced by MacLex.
- 4 SaveAs now shows the window title as the selected default filename when the dialog is put up.
5. TEXT files are now given a MLEX creator type, so that MacLex now recognises its own files. (Lexicon files are also of TEXT type, so these are also recognised, but if a launch is done by double clicking one of these, then that file will open in edit mode - it will not cause loading of a lexicon - that has to be done from within the application.)
6. Additional checks prevent the user from changing the header token or the token prefix (ie. the header token's first character) when a lexicon is loaded - whether the change is done by altering the contents of the respective text boxes in the Preferences dialog, or by trying to get an incompatible Preferences file using the Get Settings button in the same dialog.

version 1.1f April 1992

The MacSort documentation was incorporated within the MacLex documentation, and all updated to reflect version 1.1f.

New features:

1. Sorting is now done 'within' the input files folder; no output folder is needed, and the user does not have to leave MacLex to create one. A corollary is that source files are not preserved across a 'folder' sort, so the user loses the automatic backup facility of earlier versions.
2. Some menus are altered, in preparation for the semantic categories functions to be added in a later version.

version 2.0f early May 1992

Most of the semantic category functions are implemented.

version 2.1 May 28 1992

New features:

1. All of the semantic category functions have been implemented. And sample semantic category tables included in the Control folder - one table has 2 levels and

the other has 3, both implement Lowe and Nida's semantic categories.

2. Implements user typing command & period to abort the following long operations in midstream: sorting, reversing, exporting, replacing all, and auto converting categories.

Bug Fixes:

An obscure bug that could result in a bad crash, which also bombs the system, when doing a Find straight after loading the lexicon is now fixed.

(This fix may also fix some obscure crashes that have been reported on some Macs which are not SEs.)