

Aquamacs Emacs Manual

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Figure 1: Aquamacs combines the legendary power of Emacs with user-friendly customizations to provide a more Aqua-specific user experience.

1 Aquamacs Emacs: a User-friendly Emacs Distribution

Aquamacs is an freely-available Aqua-native build of the powerful Emacs text editor (<http://www.gnu.org/software/emacs/emacs.html>). By “Aqua-native,” we mean more than just the fact that this version of Emacs runs as a standard OS X application. Aquamacs features extensive customization that enables it to conform better with Apple’s standard Human Interface Guidelines (HIG) than standard versions of the editor do.

Emacs is a text editor of legendary power and configurability, but it also has an enormously complex interface that, while consistent across platforms, is usually at odds with the specific interface conventions of the particular platform on which it is being used. The original GNU version of Emacs for the Mac, called Carbon Emacs, is no different.

Aquamacs Emacs implements the standard OS X keyboard shortcuts and other interface conventions, integrating Emacs into the Aqua environment to a far greater degree than other versions of Emacs. This allows Mac users who might be unfamiliar with Emacs’ complex standard interface to harness its amazing editing power in a familiar way.

You can always download the latest version of Aquamacs from the project home page, <http://aquamacs.org>. The direct download link is <http://aquamacs.org/cgi-bin/download.cgi>. Just download the disk image (DMG), move the Aquamacs application bundle to your hard drive, and launch.

This documentation aims to introduce Aquamacs to novice users of Aquamacs Emacs, to help them get started with this powerful text editor. The documentation also aims to introduce Aquamacs to experienced users of Emacs, who may find aspects of its interface inconsistent with their experience.

The Aquamacs documentation will focus on the following areas:

- What's New in this Release
- Tutorial: Aquamacs for Beginners
- In-Depth: The Aquamacs Interface
- Aquamacs for Emacs Veterans

Our hope is that using Aquamacs will be a rewarding experience both for new users, who come to appreciate the power of Emacs without the steep learning curve, and for experienced Emacs users, who may find Emacs' integration into the Aqua environment an unexpectedly pleasant surprise.

1.1 Terminology in this Manual

GNU Emacs uses a terminology that is different from what users of modern, graphical environments are used to. Windows become *frames*, and documents are held in *buffers*. We will concentrate on the Emacs terminology in this manual in places where this is not confusing.

Aquamacs Emacs is an extensive *distribution* of GNU Emacs with modified defaults – almost up to the point where it could be called a *fork* - a completely new program. However, Aquamacs always contains the latest version of GNU Emacs. It is useful to understand the relationship between Emacs and Aquamacs. In this manual, we will use the term *Emacs* to refer to the core which is used on many different operating systems and built and distributed by the GNU Project. We will use the term *Aquamacs Emacs* (or just *Aquamacs*) to refer to the present implementation.

2 Tutorial: Aquamacs for Beginners

2.1 What Makes Aquamacs Like Other Text Editors

When you first launch Aquamacs, you will see that it is like many other text editors such as Bare Bones Edit, Dreamweaver, or similar programs: you can type text, cut and paste text, and save and close a file using the menubar or standard OS X keyboard shortcuts (Apple-S for save, Apple-X for cut, Apple-V for paste, and so on). If you are writing one of the many text formats that is supported by Aquamacs, such as HTML, you will also note Aquamacs' use of *syntax coloring*, which sets certain parts of the text—such as HTML markup—in a different color than the text content. This makes editing the text and adjusting the markup easier.

2.2 What Makes Aquamacs Emacs Different from Other Text Editors

If you look at some of the menu items and keyboard shortcuts, you will see some of the features that make Emacs different from other text editors. Although Aquamacs has been designed to present many of these features in an Aqua-friendly way, it does not hide these features. Aquamacs is a complete editing environment.

- **Sophisticated text processing.** Aquamacs features text editing capabilities that go far beyond the average text editor. For instance, Aquamacs features several kinds of search and replace: it can replace text incrementally, it can search and

OS X Term	Emacs Term
Window	Frame
Tab/pane	Window
Document	Buffer
Cursor	Point
Mouse pointer	Pointer
Keyboard shortcut	Key (binding)

Table 1: Key Emacs terms and their Apple counterparts.

replace text by complex patterns of characters (regular expressions) and not just by word matching, and so on. Aquamacs also features support for virtually every kind of text file imaginable: computer code such as C/C++, HTML, \LaTeX , XML, and other formats.

- **Buffers.** One of the features that makes Emacs such a productive editing environment for experienced users is the concept of *buffers*. A buffer is, simply said, a document that is being edited. It can be displayed in any window, and you can even display a buffer twice. But buffers don't just hold text files. They can hold messages from a program that's running, they can be shown in a window that you can use to actually send commands that Aquamacs executes, and other functions. The Buffers menu in Aquamacs Emacs allows you to switch quickly between windows, to send execute or preview the code you are writing with a couple of keystrokes, and to monitor logs of commands you are executing.
- **Integration with additional tools.** Aquamacs' "Tools" menu provides access to file comparison and version control, compiling and debugging of program code, the ability to read e-mail and newsgroups, and more.

In addition to its large number of features, Aquamacs also defines some interface terms differently than other OS X applications. See Table 1 for more information.

This list provides just a small sample of the functionality available in Emacs. Aquamacs' customizations make Emacs much easier to learn; it is possible to get started and become productive quickly. However, harnessing all of Emacs' power, even with assistance from the familiar Aqua user interface, will take time.

3 In Depth: The Aquamacs Interface

In this section, we will walk through the Aquamacs interface step by step, and will introduce relevant points about how Aquamacs Emacs solves particular editing problems in a distinctive way. We will specifically emphasize the functions that Aquamacs offers as opposed to GNU Emacs, which readers might be familiar with anyways.

3.1 File

The File menu includes basic operations for opening, closing, and printing files. Opening and saving files uses standard Mac keyboard shortcuts (Apple-O, Apple-S), and uses standard Aqua dialog boxes.

You can create a new buffer: Aquamacs allows you to choose from a list of recently and commonly used editing modes. A similar function lets you change the current editing mode.

You can also open a directory. When called by mouse from the menubar, this brings up a standard Aqua dialog box. When called up with a keyboard command (Control-x d), it brings up a directory name in the “minibuffer” (small space for commands at the bottom of the main window, or frame).

Printing is fully supported, although no “Page Setup” option is available at this point. You will see a print screen (in the system’s Preview.app) from where you can select a printer and the usual options. This may take a few seconds to appear with very large buffers. (Printing of embedded images such in LaTeX Preview mode is currently not supported.)

You may export your buffer to PDF or to HTML format. This operation preserves all the formatting, including any word-wrapping - so you may want to choose a font and resize the frame so that the lines are wrapped in the intended way (if Soft Wrapping is used).

Printing and PDF export are in US Letter format at this point.

3.2 Edit

The Edit menu is the heart of Aquamacs’ textual wizardry. Aquamacs supports all customary editing functions, such as cut, copy, paste, and simple search and replace. In Aquamacs these basic functions are supported by standard Aqua keyboard shortcuts. There is a great deal more functionality, however, than the average text editor. For instance, Aquamacs Emacs allows you to go to a specific line number in the file you are editing, to the top or bottom of the buffer, and so on. It also supports searches with *regular expressions*, which are sophisticated text patterns that go beyond simply matching a specific set of characters (or “string”). Aquamacs Emacs also stores more than twenty of the most recently-copied items on the clipboard, and these are accessible from the menu in case you need to paste these items again. The Edit menu also supports “bookmarks,” a feature that allows you to save your place in a specific file.

Aquamacs contains spell-checking functions; however, either the extra packages “Aspell” or “Ispell” need to be installed. The recommended way to do that is to install “CocoAspell”, which is a Mac variant of the Aspell program. It comes with a dictionaries for English, but a variety of other dictionaries is available.

3.3 Options

The Options menu is where you can easily customize your settings. The options that you can configure include syntax coloring, matching of parentheses (useful for text markup that depends on open and close brackets), how to display buffers and frames, color theme, fonts, and other settings. For more information on fonts, please see Section 3.3.3.

If you want to delve deeply into customizing Aquamacs, select “Customize Emacs:Top-Level Customization Group” in the Options menu. A new frame titled “Customize Group: Emacs” will open. Scroll down and find the “Aquamacs Group” listing, and push the “Go to Group” button. This will open a new frame with all of the configuration options for Aquamacs Emacs—deep-level customization that can be implemented

by Aquamacs power users in the Emacs scripting language, elisp—and each option is documented there. Table 4 displays a complete list of the options.

3.3.1 Using the Options key and more...

The keyboard has always been the essential user interface to Emacs - it's what makes Emacs so efficient as an editor for daily tasks. There are keyboard bindings for pretty much every task. Many bindings involve pressing the "Meta" modifier key - it's a key just like Control or Shift, which all go together with another (normal) key. "Meta" has only really existed on Unix keyboards long time ago - nowadays, computers have other keys instead. Therefore, you will need to press another key on your Macintosh keyboard. *By default, this is the Option key*, but you can use the ESC key instead (in this case, you may press ESC first, then the rest of the keys).

Inputting characters with the Option key on non-English keyboards. In most non-English keyboard layouts, the Option key also serves to input characters such as { or \ or @. Using Option as Meta would inhibit you from inputting those characters. You have two options to get around this. *Either*, you deselect "Option Key for Meta" in the Options menu (under "Option Key"), in which case you will have to use ESC for Meta, *or* you toggle back and forth between the modes using Command-;, *or* you use Option for Meta, but enable one of the emulation modes provided in the same menu under "Option Key". This will allow you to input some common characters with the Option key on some common keyboard layouts.

Alternatively, Aquamacs allows you to use another modifier key - such as the Function key on laptops. The customization group "Aquamacs" contains appropriate settings.

3.3.2 Languages of the World - Dealing with Different Character Sets

Computer keyboards were designed to input text in languages with a small character set. Aquamacs Emacs lets you use your keyboard with a variety of *input methods* in order to input text in languages with many characters, among them Asian languages.

By default, Aquamacs uses the standard Mac user interface to input characters, called "System Input Method".

The Multilingual Environment, present in GNU Emacs, provides a number of pre-defined input methods. Aquamacs Emacs extends this: On Mac OS X, because of the particular ways of user interface and unicode handling, these standard Emacs language environments are not enough to read and write some international languages. One needs to set additional parameters, especially, the language specific coding systems.

You can find these new language environments (Korean, Japanese, Chinese-GB and Chinese-BIG5) - among other ones - under "Aquamacs Multilingual Environment".

3.3.3 The Right Look: Colors and Fonts for Frames and Modes

Aquamacs allows you to alter specific features of the current frame via functions in the Options menu. "Show Color Themes (this Frame)..." will let you choose a pre-defined

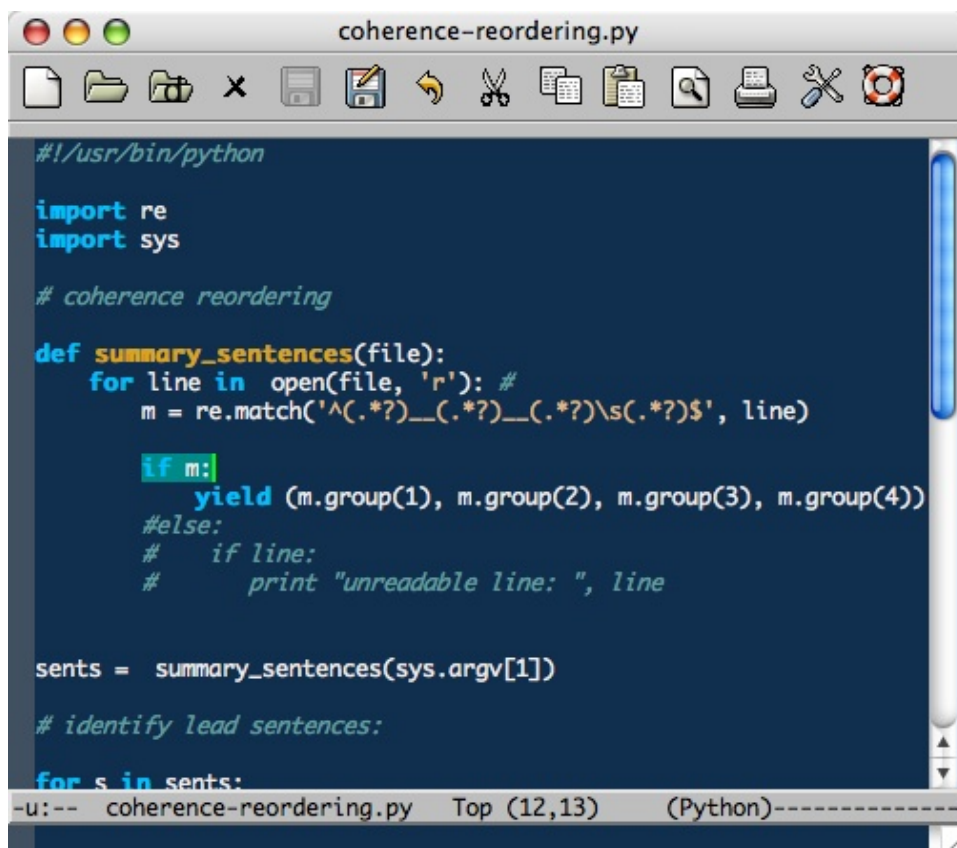


Figure 2: Aquamacs with a custom style applied.

combination of colors and fonts. “Show Fonts (this Frame)...” gives you a choice of pre-defined fonts to use.

These settings only apply to the current frame. To make them “stick,” use the function “Frame Appearance Styles / Use current style as default.” Then, future frames will open *by default* with the new colors and fonts chosen. This applies to all visual frame-settings that a mode or you as a user have chosen using Emacs’ configuration system. The choice of a default style will stick until you restart Aquamacs Emacs.

Aquamacs Emacs also offers you to pick a style specific to the current mode. For example, you can use different settings when you are editing C or LaTeX, then when you are editing a text file. That is what the function “Use current style for [current] mode” is for. Again, the setting will stick for newly opened frames or or whenever you newly use a given mode, until you restart Aquamacs Emacs.

Note that mode-specific styles will override any default style. If you’d like to use the same style for all frames, you should use “Use current style as default.” and delete all the mode-specific frames.

If you’re more of an Emacs expert and you’d like to configure things manually by means of elisp or the customization buffer (“default-frame-alist”, etc.), just disable the “Frame Appearance Styles” option. You can then use the customization options “default-frame-alist” and “initial-frame-alist” as documented in the Emacs manual.

Finally, you may want to save your settings so they will stick even when you restart Aquamacs Emacs. To do so, use the function “Save Options.”

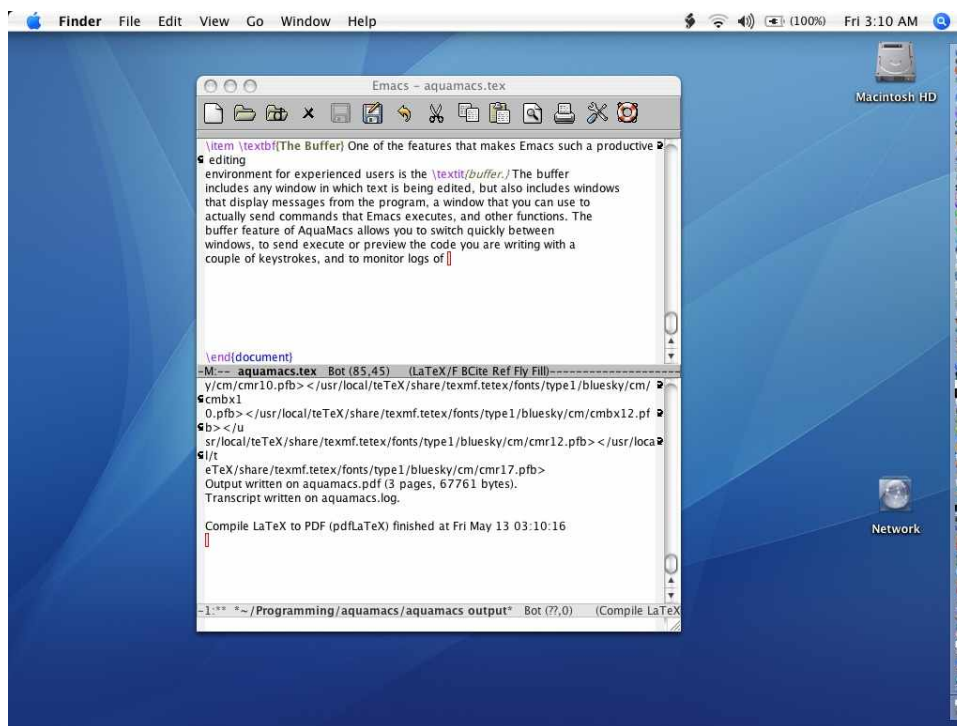


Figure 3: Using multiple buffers and windows in Aquamacs Emacs is a powerful tool for enhancing productivity.

3.4 Buffers

The Buffers menu allows you to navigate through the windows/frames that you may have open. Note that a “buffer” is not synonymous with a window or frame, in that you can split a frame and have more than one buffer contained within. (Multiple windows/frames is a feature of Aquamacs; standard Emacs does not support this.) In addition to standard frames that display open files, there are a few other important buffer types. One is the “scratch” buffer, which is simply a buffer to type notes into; this can also be the starting point for a file to save, and a buffer to type configuration commands for Aquamacs (an advanced feature). Another is the “Messages” buffer, which displays a log of output from Emacs commands and operations. Finally, there is the “info” buffer, in which Aquamacs Emacs displays built-in user help, tutorials and other documentation in Emacs’ “info” format.

From the Buffers menu, you can also open a new “frame,” or window, or split the open window into two separate ones. The keyboard shortcuts for these commands are the traditional Emacs ones (see the menubar).

3.5 Tools

The Tools menu provides access to a variety of functions, including integration with version control systems, running shell commands, searching external files for text, and compiling and debugging software code. The Tools menu also provides access

to newsgroups and e-mail.¹

3.6 Help

The Help menu contains a wealth of information about Aquamacs Emacs and GNU Emacs. Except for the help provided in this document, Aquamacs' Help menu also provides documentation of the Mac-specific customizations with the present User Manual. The general Emacs user help is comprehensive and detailed to the point of possibly overwhelming the inexperienced user. The beginner should definitely start with the Emacs tutorial contained in the Help menu. While geared toward the traditional Emacs interface instead of the OS X Aquamacs version, the tutorial is a good introduction to Emacs' unique capabilities. And, as you gain more experience, you will appreciate the depth of the Emacs documentation.

4 Aquamacs for Emacs Veterans

While experienced users of Emacs on other platforms can continue to use all the key combinations to which they are accustomed, we recommend that they use the Aquamacs-specific conventions to get the most benefit from the applications. Many of the standard Emacs behaviors and interface conventions have been modified in Aquamacs in the interest of providing a more Aqua-native experience. In this section, we discuss some of the ways that Emacs conventions are mapped to Aqua conventions, and outline some advanced ways that users can modify Aquamacs to their specific preferences.

4.1 Keyboard Shortcuts

Emacs has a well-defined set of keyboard shortcuts, which Aquamacs revises to accommodate OS X conventions. See Table 2 and Table 3 for details.

4.2 Customizing Aquamacs

One of the distinguishing features of Emacs is the degree to which it can be customized by the end user. Emacs includes its own internal scripting language, `elisp`, which allows the user to customize such things as keyboard shortcuts, window settings, fonts, and more. The Aquamacs customizations themselves are implemented in `elisp`.³

We recommend that user customizations be placed in specific locations:

- `/Library/Preferences/Aquamacs Emacs/Preferences.el`: Preferences for Aquamacs and for all users
- `/Users/User Name/Library/Preferences/Aquamacs Emacs/Preferences.el`: User-specific preferences for Aquamacs

¹The functionality provided in the Tools menu is, to say the least, diverse, and is part of the attraction of Emacs for a large number of users—particularly advanced users. It is not necessary to use Aquamacs as an e-mail client to appreciate its considerable power and utility, however.

³The Aquamacs customizations are stored in `elisp` files in the application bundle. It is possible to modify these files directly, but we discourage this practice and provide no support for it.

Shortcut	Elisp Command	Function
Apple-N	new-frame-with-new-scratch	Create new buffer
Apple-O	mac-find-file-other-frame	Open a file
Apple-Shift-S	mac-save-file-as	Save as
Apple-A	mark-whole-buffer	Select all text
Apple-V	yank	Paste text
Apple-C	clipboard-kill-ring-save	Copy text
Apple-Option-C	aquamacs-clipboard-kill-ring-save-secondary	Copy text from secondary selection
Apple-X	clipboard-kill-region	Cut text
Apple-Option-X	aquamacs-clipboard-kill-secondary	Cut text from secondary selection
Apple-S	save-buffer	Save file
Apple-L	goto-line	Go to specified line
Apple-F	isearch-forward	Search
Apple-G	isearch-repeat-forward	Repeat search
Apple-W	intelligent-close	Close selected window
Apple-M	iconify-or-deiconify-frame	Minimize window to the Dock
Apple-.	keyboard-quit)	Keyboard quit
Apple-,	customize	Show Customization Buffer
Apple-;	toggle-mac-option-modifier	Change Option key function
Apple- / / '	(un)comment-region-or-line current line or region if marked	Comment out or in the
Apple-Backspace	kill-whole-visual-line	Deletes the current line
Apple-Delete	kill-visual-line	Deletes the remainder of the current line
Apple-Q	save-buffers-kill-emacs	Save file, exit program
Apple-Z	undo	Undo
Apple-Shift-Z	redo	Redo
Mouse-drag		select text
Option-Mouse-drag		select text as secondary selection

Table 2: Aqua-specific keyboard shortcuts implemented in Aquamacs. This assumes that the “Option Key is Meta” (Options menu).

Emacs Command Key	Aquamacs / Mac Command Key
C-*	Control-*
A-*	Apple-*
M-*	Option-* ² (or Esc)

Table 3: Aqua-specific command keys implemented in Aquamacs.

If in doubt, use the last option. This replaces the usual `/.emacs` file, which is still loaded for compatibility.⁴

Below are some specific customization options and groups that may be of interest:

- **Frame.** Aquamacs opens new files (and other buffers) in new frames. That is usually more convenient and allows you to use the graphical user interface of today's computers, which did not exist when Emacs was conceived almost three decades ago. If you do not like this behavior, perhaps because you are used to traditional Emacs, just deselect "Display Buffers in Separate Frames" in the Options menu and save your choice with "Save Options." (The associated global minor mode is called "one-buffer-one-frame-mode".)
- **Frame Appearance Styles.** These styles provide a convenient way to tie bundles of frame parameter and faces to specific major modes so that every frame showing a buffer in a particular major mode is styled that way. Such frame parameters can be the background color, they can be the faces that define syntax coloring. They also comprise settings such as if and where there is a fringe, or a tool-bar (icons on top). Such settings always override any global choices made with, for instance, "default-frame-alist" or "tool-bar-mode". Because the style always applies to the frame and not the window (an Emacs limitation), this mode makes most sense together with "one-buffer-one-frame-mode", where only one (main) buffer is usually shown in a frame.
- **mac-option-modifier.** This is the modifier to use for the Mac alt/option key. The value can be alt, hyper, or super for the respective modifier. If the value is nil then the key will act as the normal Mac option modifier, and the option key can be used to compose characters depending on the chosen Mac keyboard setting.
- **Additional customization.** Of course, Aquamacs Emacs offers you almost all the customization possibilities that Emacs has. Under "Customize Emacs," you will find a sub-menu that allows you to browse the vast space of customization settings. Beware: some of them are complex and not easy to understand. If you would like to tinker with some general Aquamacs-specific behavior, you can customize the group "Aquamacs."
- **The Scratch Buffer**

As mentioned above, the Aquamacs scratch buffer is simply a buffer into which notes can be typed. For this reason, the scratch buffer is opened in text mode, as opposed to lisp interaction mode (the default mode for the plain GNU Emacs). Customize 'initial-major-mode' (and restart) to change this.
- **Want some GNU Emacs 22 behavior back?** In most cases that represents no problem. Aquamacs provides a customization group called "Aquamacs-is-more-than-Emacs" which contains all the settings whose default values differ from the ones in GNU Emacs (22) or the appropriate package. We recommend that

⁴Two more files are loaded as well for compatibility with earlier Aquamacs versions:

`/Library/Preferences/Emacs/Preferences.el` and

`/Users/User Name/Library/Preferences/Emacs/Preferences.el`.

The use of these files is not recommended.

Variable
Aquamacs Set Creator Codes After Writing Files
Aquamacs Quick Yes Or No Prompt
Aquamacs Ring Bell On Error
Aquamacs Known Major Mode
Aquamacs Default Styles
Aquamacs Buffer Specific Frame Styles
Aquamacs Auto Frame Parameters Flag
One Buffer One Frame
Smart Frame Positioning Enforce
Smart Frame Positioning Mode
Mac Option Modifier
Mac Control Modifier
Mac Command Modifier
Mac Function Modifier
Aquamacs Known Buffer Modes
OS X Key Mode
OS X Key Mode Mouse-3 Behavior
Visual Scroll Margin
Emulate Mac ... Keyboard Mode

Table 4: Selection of Aquamacs-specific variables that can be customized in the Aquamacs customization group.

you tinker with these one at a time and check their (often wider-than-you-think-reaching, sometimes detrimental) effects.

Also, see Table 4 for a partial list of such settings.

The range of possible customizations—including restoring some of Emacs’ traditional interface conventions—is beyond the scope of this help document. However, we provide a wiki for users to share their modifications. See <http://www.emacswiki.org/cgi-bin/wiki/AquamacsEmacs/> for more details.

4.3 L^AT_EX Support

One special feature of Aquamacs is its extensive support for the editing of L^AT_EX documents, especially Emacs’ AUCTeX mode.

AUCTeX comes with its own manual, accessible via the LaTeX menu (when in latex mode after loading a .tex file), “Read the AUCTeX manual”. If you have a question, please consult the manual. If that doesn’t work, or you suspect you’ve found a bug in AUCTeX, please turn to the AUCTeX mailing lists, accessible here: <http://www.gnu.org/software/auctex/mailling-lists.html>.

To access the enhanced L^AT_EX functionality that Aquamacs offers, you will need to install a LaTeX system. We recommend to install the *MacTeX distribution*, available at <http://www.tug.org/mactex/>. Alternatively, you can install a smaller distribution provided by Gerben Wierda (<http://www.rna.nl/tex.html>). Both in-

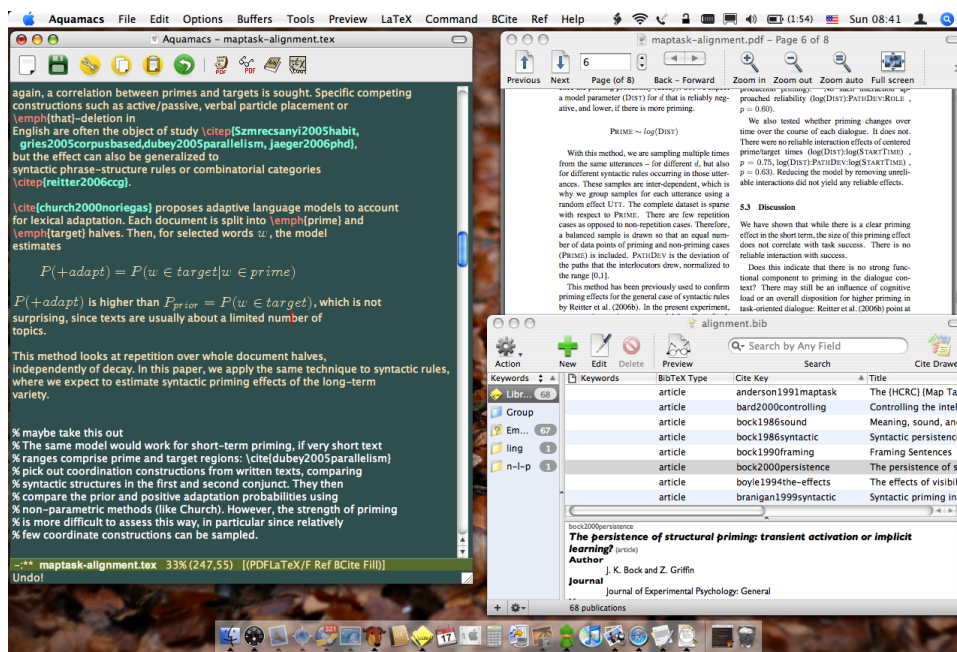


Figure 4: Aquamacs offers extensive support for L^AT_EX documents and can be combined with viewer applications such as PDFView and bibliographic databases such as BibDesk.

stall packages are complete and user-friendly. (While you can obtain T_EX from other sources, the binary distributions are particularly well supported in Aquamacs.)

Note that AUCT_EX, as it comes with Aquamacs, is configured to compile documents directly to PDF, a standard on the Mac. If you prefer to produce DVI and Postscript documents with L^AT_EX, switch off PDF Mode in Command -; TeXing Options.

4.3.1 Enhanced Carbon Emacs Plugin

Enrico Franconi, developer of the former Enhanced Carbon Emacs distribution that had special support for L^AT_EX editing via its customizations for AucT_EX mode, has revived ECE as an external plugin that can be installed on any Carbon Emacs, including Aquamacs. At this time, the ECE plugin 1.0.1 is available at

<http://web.inf.unibz.it/~franconi/enhanced-carbon-emacs/>

4.3.2 PDFView: A L^AT_EX Previewer

When editing L^AT_EX files, you will often need to view the compiled results. PDFView is a program that will automatically show the typeset document. It is available here:

<http://pdfview.sourceforge.net>

An older such tool is T_EXnscope. T_EXnscope can be downloaded from <http://www.ing.unipi.it/~d9615/homepage/texnscope.html>.

T_EXnscope needs a bit of configuration to work well with Aquamacs. See the Wiki page at <http://www.emacswiki.org/cgi-bin/wiki/AquamacsTexnscope> for up-to-date configuration info.

5 Extending Aquamacs

Aquamacs supports Plugins that can be packaged to provide point-and-click installers (via Apple's PackageMaker). The interface is simple. Adding standard Emacs packages is easy as well.

5.1 Plug-in Interface

All files named *site-start.el* anywhere in the load-path are loaded at startup, before the user's init files are loaded. For example, such a file may be placed in `/Users/User Name/Library/Application Support/Aquamacs Emacs/myPlugin`.

The load-path is automatically extended to cover all subdirectories in standard paths (see Section 5.2).

If a plug-in needs to execute code earlier in the initialization phase, that is, before any Aquamacs-specific code is executed (but after Emacs initialization code has been executed), this code can be provided in a file *site-prestart.el* anywhere in the load-path.

Info files (M-x info) can be provided in a directory called `info` inside the plugin directory. Aquamacs will automatically add this path to 'Info-default-directory-list'. Plugins should provide a `dir` file inside the `info` directory containing an overview (see the Emacs documentation for 'info').

Note that plug-ins should not make any assumptions about whether a frame exists or is visible.

5.2 Load path

Aquamacs is able to find configuration files and Emacs packages from any of the following locations (load-path).

- `/Library/Application Support/Aquamacs Emacs/`
- `/Users/User Name/Library/Preferences/Aquamacs Emacs/`

The following paths are available in the load-path for individual preference settings. *They should not be used if you distribute a point-and-click installer package.*

- `/Library/Preferences/Aquamacs Emacs/`
- `/Users/User Name/Library/Preferences/Aquamacs Emacs/`

All subsequent directories are added recursively, so Aquamacs will find any path that starts below. Type `C-h v load-path` for more information.⁵ Do not use these paths.

⁵The following paths are loaded for backward compatibility reasons:

- `/Library/Application Support/Emacs/`
- `/Library/Preferences/Emacs/`
- `/Users/User Name/Library/Preferences/Emacs/`
- `/Users/User Name/Library/Preferences/Emacs/`

5.3 Disabling a plug-in or a load-path

If an (empty) file named *.ignore* exists in a specific path, Aquamacs does not load any *site-start* and *site-prestart* source files in this or descending paths and does not add that or subsequent paths to the load-path.

5.4 Changing Aquamacs source files

If you'd like to tinker with the Emacs lisp source files that come with Aquamacs, you can do so quite easily. When activating a new function or evaluating an expression, C-x C-e is your friend.

However, you may notice that some of your changes aren't active after you've saved your work (into the Aquamacs application bundle) and restart. That is because some of the code is precompiled into the Aquamacs binary and not loaded from the source (or .elc / .el.gz) files. To alleviate that problem, create a file

`/Users/User Name/Library/Application Support/Aquamacs Emacs/site-prestart.el` with the following content:

```
(setq aquamacs-reload-preloaded-files t)
```

This will cause to re-read the otherwise preloaded files from disk.

6 Getting Help

There are many options for getting help with Aquamacs.

From within Aquamacs, you can access user documentation from the menu or from specific key combinations: C-h k (key/menu entry) brings up help for some input items; C-h f (function) gives help for an elisp function; autocompletion support is available with (tab); and C-h a brings up apropos, a search function.

For help from other Aquamacs/Emacs users, the best place to begin is the OS X Emacs mailing list. The searchable list archives are located at <http://www.esm.psu.edu/mac-tex/MacOSX-Emacs-Digests/>. For more information on subscribing to the list, see <http://aquamacs.org>.

Another option for general Emacs help is the gnu.emacs.help newsgroup.

Apart from answering questions at the OS X Emacs mailing list, you can also file bug reports on Aquamacs. Use the "Send Bug Report" function in the Help menu (general Emacs bugs, too), and also our Aquamacs-specific bug report system at <http://sourceforge.net/projects/aquamacs>.

In addition to requesting help, you can also offer it in these mailing lists. *Please note that in case we have helped you with a configuration problem on the mailing list, we may ask you to write a little note in the Aquamacs Wiki so others can profit, too.* Remember: Aquamacs is an Open Source community project!

7 Aquamacs lives from your donations

Aquamacs Emacs is a project that depends on your support. The project has no other source of substantial income: the application is free, the downloads are free.

Free software is developed because programmers love their work. Donations will never remunerate them financially as a job in the software industry would. But every

donation is a recognition of the programmer's hard work, and the bigger ones actually help paying some bills.

If you would like to say "thank you", or if you would like to see the project developed further, *please make a donation*.

<http://aquamacs.org/donate>

8 Contribute to Aquamacs – Join the Fun!

If you'd like to join us in working on Aquamacs, download the source code from CVS and take a look. Do ask if you have questions! When you have a patch or a less specific suggestion for improvements, send it to the development mailing list.

We're a very open team. Everyone is allowed to suggest modifications to every piece of code. There is no "ownership" of code, so please join us to make Aquamacs even better!

9 Acknowledgments

Who's behind Aquamacs?

It's a free software project, and naturally, Aquamacs could not exist without the help of developers, designers, writers and users. The following people have contributed code, bug reports and ideas to the Aquamacs project at one point or the other.

Lawrence Akka; Mahn-Soo Choi; Bill Clementson; Nathaniel Cunningham; José Figueroa-O'Farrill; Enrico Franconi; Terry Jones; Jean-Christophe Helary; David Reitter (co-founder, lead developer); Robert H. Sloan; Kevin Walzer (co-founder, documentation); and others.

We would also like to acknowledge the contributions of these authors, whose source code and hints on public forums have already been integrated into the build:

Drew Adams; Emil Astrom; Stefan Bruda; Steve Dodd; Massimiliano Gubinelli (Aquamacs "gnu" icon); Taiichi Hashimoto; T. Hiromatsu; Kyle E. Jones; Paul Kinucan (JDE); Eric M. Ludlam (Cedet); Xavier Maillard; Pekka Marjola; Mitsuharu Yamamoto; Gerd Neugebauer; Ovidiu Predesc; Alex Schröder; Mikael Sjödin; Steven Tamm; Bob Weiner; Milan Zamazal; Seiji Zenitani; and many others.

Aquamacs is based on GNU Emacs, which is the work of Richard Stallman and many other developers, in particular Andrew Choi (original GNU Emacs-to-MacOS and OSX ports), Steven Tamm and Mitsuharu Yamamoto (continued port development). We also would like to acknowledge the work of the many authors of the major modes included.

Aquamacs contains icon artwork by Adrian Chromenko and David Reitter, Jasper Hauser, and the Nuovext Project.

Last but not least, Aquamacs couldn't exist without the dedication of its users, who donate money, report bugs and help us fix them.

10 Nightly Development Builds

Ready to install, the Aquamacs project offers nightly built binary packages that contain the latest in Aquamacs development. These builds are not considered "stable", but

experimental.

See <http://aquamacs.org/nightlies.shtml> for downloads.

11 Obtaining the Source Code

You may download the source code for each release of Aquamacs, or download the source of the current development version (CVS) from <http://aquamacs.org>.

The author offers to provide you with the source code for a time period of at least three years from the date of release. Source code may be obtained from Sourceforge.Net (<http://sourceforge.net/projects/aquamacs>) or, if this is impossible, from the author directly.

12 Licenses

Aquamacs: the Emacs distribution, (c) 2005,2006,2007 by Free Software Foundation, Inc., and David Reitter. Aquamacs is licensed under the terms of the GNU General Public License, either Version 2, or (at your option) any later version.

For details of this license, type C-h C-c in Aquamacs (Help: Copying Conditions) or visit <http://www.fsf.org/licenses/gpl.html>. The Aquamacs documentation is licensed under the terms of the GNU Free Documentation License. For details of this license, please see <http://www.gnu.org/copyleft/fdl.html#SEC1>.

The license does not apply to the toolbar icons contained in the Aquamacs .app bundle. They may be used and redistributed within Aquamacs, but not separately or in another application. Some of the icons may be redistributed, however - see the COPYING file in the etc/images directory in the Aquamacs .app bundle or in the source code.

13 What's New in This Release

13.1 Changes—1.1

- Based on GNU Emacs 22.1.
- Aquamacs is now much faster when opening new frames (windows).
- The Aquamacs binary now starts fine from the command-line on certain Intel machines.
- Preferences file loading has been revised. Aquamacs now displays helpful error messages if one of the Preferences files causes problems. M-x aquamacs-load-preferences allows users to test their preference files. Starting from a Terminal window by calling the “Aquamacs Emacs” binary with a “-q” argument will prevent Aquamacs from loading any preference files, not just .emacs. (Note that customizations.el is not meant to be edited by users.)
- Aquamacs now starts up faster.
- Aquamacs does not define a number of fontsets any longer on startup. Since the font selection dialog can be used (Apple-T), fonts can be chosen freely and fontsets only need to be defined to combine fonts, which is rarely needed. Users may define their fontsets as before - Aquamacs just doesn't do it for them (unless such fontsets are used in customizations). Call (aquamacs-create-standard-fontsets) from Preferences.el should any problem occur.
- Emacs 22 Manuals (man / info, available from the Help menu) are now displayed on all systems. Reported by Eric Martin.
- Customization groups are not shown in separate windows any longer.
- Plugins may now contain ‘info’ files, which will automatically be found by Aquamacs (and M-x info). Reported by Wei Tang.
- An issue with the font size on some pages of the Aquamacs manual (as available from the Help menu) has been addressed. Reported by David Romano.
- The “Emulate Some Italian Option key combinations” mode (emulate-mac-italian-keyboard-mode) allows users to type “m” again. Reported by Domenico Praticchizzo.
- X Resources specified via the OS X defaults system (plist) are not supported any longer.
- Thank you to all users who have donated (<http://aquamacs.org/donate>). Those who haven't had the chance to support the Aquamacs project, please consider a contribution now!

13.2 Changes—1.0c

- Based on GNU Emacs 22.1.
- Java support has just gotten a lot better. JDEE is a complete, integrated development environment for Java in Emacs. It supports building, source-level debugging, code generation and much more. Aquamacs now contains the latest version of JDEE, configured to work with the Java SDK installed via Apple's Developer Tools. Visit <http://jdee.sunsite.dk> for more information.
- Toolbar: The icons have been completely redesigned. The colors make them easy to distinguish. The functions available from the standard toolbar have been carefully selected. Using the Options -⌘ Show/Hide -⌘ Toolbar items menu, icons may be shown or hidden to fit the user's needs.

Available functions:

- New, open, save/save as, revert buffer
- Undo, redo
- Cut/copy/paste
- Find (isearch)
- Spell-check buffer (ispell-buffer)
- Print
- Make a new frame
- Preferences
- Help

We'd like to acknowledge the artists:

- Preferences, Revert Buffer, Kill Buffer: Jasper Hauser
- New Frame, Recent Files, Spell-check: Nuovext Project
- all other icons: Adrian Chromenko and David Reitter
- Spell-Checking can now be found in the Edit menu, not in Tools. The "Check As You Type" function (flyspell-mode) will automatically check the buffer contents (unless it's a big buffer) when first enabled.
- Spell-Checking now supports the popular cocoAspell package, which includes English language dictionaries and the GNU Aspell spell-checking library. Additional dictionaries may be installed.
- Formatting (filling) text with M-q (Option-q) is a bit more convenient now: when a region is selected, the command applies to the whole region and not just to a paragraph. We also provide M-Q (Option-Shift-q) to "unfill" a paragraph or a region, which comes in handy when wrapped text needs to be converted to soft-wrapped text, or to copy&paste it into other applications.

- one-buffer-one-frame-mode is more compatible to the normal Emacs paradigm of one-frame-many-buffers for internal technical reasons, but also with respect to whether newly opened frames (windows) are actually selected and receive the following user inputs. In many situations, classical Emacs shows a buffer in an extra window, but doesn't select it - so the user can keep working on the original document. Aquamacs will now do the same - it will raise the appropriate frame, but not select it. If you would like to make it select at all newly opened frames, use this in your Preferences.el:

```
(setq display-buffer-reuse-frames 'select)
```

Also (the technical change): Function 'switch-to-buffer' will set the current buffer immediately without waiting for the next top-level event loop.) Thanks to Lowell Vaughn for pointing out a seemingly unimportant bug in one of Emacs' on-board games, which led to the discovery of this issue.

- Undo as in the original Emacs is available again via 'undo'. Apple-Z and Apple-Shift-Z are bound to Aquamacs undo/redo functions (now called 'aquamacs-undo/redo' as they used to be, but seasoned Emacs users may now use Control-underscore to access the classical undo. The difference is that the old-school undo will undo it's own undo steps. Suggested by Rudi Schlatte
- Undo (aquamacs-undo, Apple-Z) will now restore point and mark as appropriate.
- Left/Right keys will now behave more Mac-like, whenever text is marked (i.e. the mark is active / text has been selected). They now move to the beginning or the end of that region, respectively. To turn off this behavior, turn off CUA mode or rebind left/right keys in osx-key-low-priority-key-map by adding this to your Preferences.el or .emacs file:] (define-key osx-key-low-priority-key-map [left] 'backward-char)
(define-key osx-key-low-priority-key-map [right] 'forward-char)
(osx-key-mode 1)
- Apple-2 can now be used to split the window into two (like C-x 2), Apple-1 will undo that split (like C-x 1).
- Cut/Copy/Paste with the secondary selection (use Option + mouse) are now bound to Option-Apple-X, Option-Apple-C, respectively (unless Option is not Meta, in which case you'd use ESC Apple C, or whatever M-A-c is for you.) (This is to avoid problems in cases when Caps Lock is on, which is recognized as Shift modifier.)
- The current major mode may be changed in the context menu
- Emulate-Mac-German—Italian—...-Keyboard-Modes now allow you to call the commands bound to the original Meta key combinations using the "Esc" key. For example, in the German keyboard emulation, pressing Option-l will give you @, while Esc l will do 'downcase-word'. Also, this mode now supports searching (Apple-F) with 'isearch'. Reported by Thomas Käufel. Additionally, an emulation mode for the Finnish keyboard layout is available now. Patch by Lauri Raittila.

- Default colors in help and *Messages* frames/buffers revised. Suggested by Charles Bailey
- Recently opened files that were opened from the "Recent Files" menu, or from an external shell with the 'open' command or something similar are now available in the minibuffer history that one gets with C-x C-f jupz.
- Clicking into raised frames (windows) that are not the selected frame (i.e. have grey instead of red-yellow-green buttons) will now activate that frame. Patch by Yamamoto Mitsuharu
- Creator codes for loaded files are maintained and not always reset to the Aquamacs / Emacs code. This way, users may use the Finder to open specific files with another application by default, but still edit the file in Aquamacs.
- Updated AUCTeX (11.84). [M-x latex-mode]. XeTeX users: please customize 'TeX-command-list' to call XeTeX directly.
- Haskell mode included (2.3). [M-x haskell-mode]
- RubyOnRails support via emacs-rails included (0.5.3) [M-x rails-minor-mode, with M-x ruby-mode]
- ACT-R support. [M-x actr-mode]
- Menu Bar fixes. (Disabled menu bar entries when frames invisible.)
- Aquamacs menu name shortened. Suggested by Enrico Franconi
- Accessibility in OS X fixes (simulated clicks on Window elements) Suggested by Alexis Gallagher Patch by Yamamoto Mitsuharu
- HTML files (and others) can be opened in the system's default browser again. This applies to C-c C-z v in html-helper-mode and other modes using 'browse-url'.
- Tramp files (i.e. remote files loaded with /uid@host:/path/to/file syntax) are noted in the "recent files" history list and not discarded any longer when Aquamacs is restarted.
- 1.0a: Some documentation of Emacs functions (C-h f setq RET, e.g.) was not available on PPC Macs. Reported by David Sagan and Bill Rising.
- 1.0a: Some additional executables like movemail did not work on PPC Macs. Reported by Barbara Shirtcliff.
- 1.0b: Ruby-mode included in new-buffer/change major mode menu
- 1.0b: The underlying source code is now fixed to be GNU Emacs 22.1 plus Aquamacs extensions.
- 1.0b: On older PPC Macs, text input was only updated slowly whenever the toolbar (icons at the top of the frame) was turned on.

- 1.0b: Gnus did not work correctly. Reported by Martin Jørgensen.
- 1.0b: M-x tile-frames-horizontally/vertically fixed. Patch by Ben Hyde. Updated to new 'oneonone' library version, code by Drew Adams.
- 1.0b: Moving the point left or right with the arrow keys could cause an error message "Mark inactive" to appear in certain circumstances. Reported by Michel Charpentier.

Thanks for supplying build machines: Toby Blake (U Edinburgh), James Pringle (U New Hampshire) and Carlo Gandolfi (Milan).

13.3 Changes—0.9.9d

- Frames (windows) now have a little icon in the title bar for the selected buffer, and you can drag&drop this to other applications. Patch by Mitsuharu Yamamoto
- Clicking the Dock icon of Aquamacs will now bring up a minimized frame, if there is no other frame to be shown - just like in any OS X application. Suggested by Frank Atanassow
- Fonts can now be selected comfortably with the OS X standard font selector, accessible via "Options-⌘ Show Fonts". Remember - to make a setting stick, use the "Frame Appearance Styles". Set the new style either for the given major mode, or as a default. Patch by Mitsuharu Yamamoto
- C-n and C-p are now mapped to 'next-line' / 'previous-line' again, so they may be used to jump full lines (as defined by carriage returns) - even if the lines are wrapped around. The arrow keys move the cursor visually as before. Suggested by Tom van Vleck
- Apple-' now cycles through all the frames, not just the topmost two. Reported by William Henney
- Apple-: now spell-checks the buffer, provided ispell is installed. Suggested by Jean-Christophe Helary
- Apple-Shift-S will now bring up a file selector rather than prompting for a file name in the minibuffer. If you prefer the Emacs-style prompt, you should use the Emacs-style key binding: C-x C-w. Suggested by Jean-Christophe Helary
- Emulate-Mac-Keyboard-Mode: improved support for French keyboard layouts
- ESS 5.3.0 included
- SLIME - the Superior Lisp Interaction Mode is now available with Aquamacs. It's pre-configured for you. Use 'lisp-mode' for your Lisp editing, and run M-x slime to start a lisp inferior process. You may need to set the variable 'inferior-lisp-program' via customization or in your Preferences.el as follows:

```
(setq inferior-lisp-program "path to lisp")
```

- C++ Mode is used automatically for .cp files.
- Keyboard bug-fix: certain keys could not be successfully input on certain keyboard layouts, most notably the key combination C-c ' as used in LaTeX mode (AUCTeX) was not available on German keyboards. Patch by Taiichi Hashimoto
- Ispell/LaTeX bug-fix: ispell will now ignore TeX commands in such buffers. Patch by Bill Rising

13.4 Changes—0.9.9c

- Bugfix: Emacs-internal Input methods work again.
- System-wide input methods (via the “International” preference panel) can now be used instead of the Emacs-specific ones. Use Options - Aquamacs Multilingual Environment - Use System Input Method to turn it on or off - it’s switched on by default. Patch by Taiichi Hashimoto

13.5 Changes—0.9.9b

- ‘mac-pass-option-to-system’ didn’t work as intended. There may have been other input problems.
- Switching to another buffer did not change the input focus (i.e. where things you type go), even though the frame displaying the buffer was raised. Reported by Rick Taube
- tool-bar-mode calls in Preferences.el / .emacs could bring up errors under certain circumstances Reported by William Henney
- ‘bury-buffer’ didn’t work correctly, causing situations where a frame was shown and was removed immediately, for example when SLIME started up or, in LaTeX (AUCTeX) mode, C-c C-l was used to display compiler output.
- Crash in ‘show mouse face’ fixed Reported by Phil
- Russian as first application language (System Preference) does not cause startup problems any more. Reported by Vladimir Lech

13.6 Changes—0.9.9a

- SUMMARY: More bugs and other annoyances have been removed. Opening new frames (for new buffers) is more useful now, and frame themes aren’t applied when a frame is split up. Options are automatically saved across sessions. A new customization groups for Emacs-die-hards makes it easier to change Aquamacs-specific customization defaults.
- Intel: Aquamacs is now available as native version for Mac computers with Intel CPU. Thanks to Jonathan Shea, Mike Bennett and Richard Koch for providing compile machines.

- Dired in one-buffer-one-frame-mode will show new directories and open files in the same frame.
- Customize will show new groups etc. in the same frame and window.
- One-Buffer-One-Frame-Mode ("Display Buffers in Separate Frames") will now show buffers such as `*mail*`, `*grep*`, `*shell*` in their own frames. This also applies if other modes open `*...*` buffers, such as ESS opening an inferior R shell, which previously didn't even show in a separate window. One-Buffer-One-Frame-Mode is also better documented now and has customization options so you can decide which buffers are shown in new frames.
- Frame-Appearance-Themes reconfigure a frame only if just one window is present (or all windows show buffers in the same major mode). This should more effectively prevent appearance switching when a second window is shown temporarily.
- Frame-Appearance-Themes now allow the user to delete all mode-specific themes when a default is defined. Hints to select "Save Options" are more prominent.
- Options are saved automatically upon quitting Aquamacs (it'll ask you.) - customize 'aquamacs-save-options-on-quit' to configure.
- Quitting Aquamacs: you won't be asked any more whether to quit if modified buffers exist, because at that point you've always already been asked to save each modified buffer.
- Aquamacs-is-more-than-Emacs is a new customization group containing all customization variables whose defaults are changed in Aquamacs compared to GNU Emacs or the relevant package. This is useful for Emacs veterans who want certain behaviors to be more similar to GNU Emacs.
- Bug Reporting is handled fully in the system's default mail client again (unless you've set up a different 'send-mail-function') Suggested by Robert Sloan
- Mail composed with the Message package will now be routed through the mail client by default ('message-send-mail-function') and there is no "From" line. If you run postfix locally, you may want to do something like the following in your .emacs or Preferences.el:

```
(setq send-mail-function 'sendmail-send-it)
(setq message-send-mail-function 'sendmail-send-it)
(setq mail-setup-with-from t)
```

Alternatively do the same in customization buffers.

- Toolbar looks prettier now. Patch by Kim F. Storm
- 'Frame-Appearance-Styles' is the new name for the former 'Frame Appearance Themes', so they won't be confused with GNU Emacs new customization themes. A global minor mode called 'aquamacs-styles-mode' is now used to switch them on/off.

Some configuration variables have been renamed: 'aquamacs-default-styles' (was: 'aquamacs-mode-specific-default-themes') 'aquamacs-styles-mode' (was: 'aquamacs-auto-frame-parameters-flag') 'aquamacs-buffer-default-styles' (was: 'aquamacs-buffer-specific-frame-themes')

- A-Backspace deletes the whole logical line again, not just the visual line. A-Shift-Backspace deletes the visual line now.
- Tilde can now be input on German keyboards with the German emulation mode via Option-N.
- Frame-positions for individual files are now saved to/loaded from a file called frame-positions.el (in /Library/Preferences...)
- Help buffers (C-h f, C-h v) for certain Aquamacs functions could have links to source code at nonexistant paths.
- site-start.el files in the load path (plug-ins!) aren't loaded any longer if there is a file named .ignore in the same path.
- Bugfix in version 0.9.9: customizations weren't read if aquamacs-styles (the former "Frame Appearance Themes" were switched off.) Reported by Brendan Dixon
- Bugfix: Typing C-x C-f, then A-w made the newly opened frame go away, but not the "Find file" prompt, which was quite persistent, especially if you didn't know about C-g and the minibuffer. That is fixed now. Reported by a number of people.
- Bugfix: Setting tool-bar-mode or changing the fringes via the Options menu will now affect the default frame style as well, so the setting will affect new frames (even if frame appearance styles are active). Note that if fringes or tool-bar are set in .emacs, the customized and saved styles will override your settings.
- Bugfix: Aquamacs will not ask the user any longer whether to save direcd buffers and other non-file-buffers upon deleting the frame (killing the buffer). Reported by Carsten Bormann
- Bugfix: desktop-mode should be able to restore the desktop on startup appropriately. Reported by Rudi Schlatte
- Bugfix: page-wise scrolling (PgUp/PgDown) with long lines scrolls exactly one screen now
- Bugfix: page-wise scrolling (PgUp/PgDown) will remove the region as expected when the cursor moves. Shift-PgUp/PgDown will extend the region (and set the mark if neccessary).
- Bugfix: completing-read-multiple didn't work (icomplete+ library updated)
- Bugfix: frames sometimes didn't open in one-buffer-one-frame-mode when the buffer shown was empty.

- Bugfix: In one-buffer-one-frame-mode, Apple-W deletes a window or kills a buffer and returns to the next buffer in the buffer list (i.e. the previously shown buffer) when the frame wasn't created for the particular window / buffer being killed. Think of it as a stack of buffers that are shown. Previously, Aquamacs always switched to *scratch*.
- Bugfix: Preview & Print now works with buffers in Tramp Mode, too. Reported by Tim Hodgson
- Bugfix: Fonts (not fontsets) set in default-frame-alist and similar variables are not filtered out any more after startup if they haven't been explicitly loaded (or applied to a frame, and thus, loaded). Reported by Konstantinos Efstathiou
- Bugfix: display copyright message at startup.
- Bugfix: Javascript-mode exchanged for the one borrowed from XEmacs. This one will hopefully work better now. Suggested by Tom Van Vleck
- Bugfix: ediff-directories interferes less with one-buffer-one-frame-mode.
- Compiling: Those who build Aquamacs themselves, note that the make-aquamacs script will now produce a complete app bundle located in (emacs-path)/mac/Aquamacs. The install-aquamacs script only moves the bundle to /Applications. If you make any changes to the Aquamacs source code (except for pre-loaded code in site-load.el), it is usually sufficient to run "copy-to-app -n". Remember to set the AQUAMACS_ROOT and EMACS_ROOT environment variables before using any of these scripts.
- A BIG THANKYOU goes to all users who have donated (<http://aquamacs.org/donate>) in the past months. I'd also like to thank all those who tested the beta versions, reported bugs and contributed ideas and server space: Nathaniel Cunningham, Peter Dyballa, Terry Jones, José Figuera O'Farrill, Konrad Podczek, Robert Sloan and many others.

13.7 Changes—0.9.8

- Meta/Option key: New minor modes allow users of various keyboard layouts (German, French, Italian, GB/US) to use the Option key as Meta modifier under Emacs (as it is the default), but still be able to input characters such as [] — and @. This works for common characters (not all). Some rarely used Emacs key bindings such as M-4 on Italian keyboards are overridden by these modes. Activate them via the Options menu ("Option Key"), or with M-x emulate-mac-french-keyboard-mode (substitute 'french' with a keyboard layout in lower case). The following keyboard layouts are known:
German, Italian, Italian-Pro, French, US, British
You may define your own mappings. (Please publish them.)
- Bug reporting: Use standard GNU Emacs bug reporting facility (but go through the mail client when necessary.)

- One-Buffer-One-Frame: Change in the decision-making process about when to show a buffer in a new frame. Generally, all buffers with names in **s* (such as **vc**) will be shown in the same frame (as directed by *'obof-same-frame-regexps'*), with the exception of Messages, Help and Customize buffers (as listed in *'obof-other-frame-regexps'*). This means that more buffers will open as a "small" window inside the current frame. Please report back to us in case you have any unwanted results with this.
- Special-Display-Frames such as the one with the **Help** buffer can now show **Completions** buffers and other ones in a second window inside the frame, just like other frames can. (*'unsplittable'* property in *'special-display-frame-alist'*).
- Drag&Drop of files in buffers with HTML/LaTeX/C modes results in the appropriate code (such as `` or `\includegraphics{...}`) being inserted. Patches by Seiji Zenitani
- AUCTeX/PDF: TeX-PDF-mode is now the default via the default of its mode variable *'TeX-PDF-mode'* rather than an entry in *'LaTeX-mode-hook'*, making configuring the default in the customization buffer (or in *.emacs*) easier. Updated to AUCTeX 11.82.
- DONATE: If you like the new version, please donate so we can keep the development efforts going throughout 2006. Have a great new year!

Bugfixes:

- Browsing a URL (as in Help menu functions, mouse clicks in Gnus etc. could fail in rare circumstances. Reported by Count László de Almásy
- Tcsh environments will be correctly imported into Aquamacs now. Reported by Michael Kohlhase
- AUCTeX and RSS documentation (info) are now included. Reported by Arthur Ogus and José Figueroa-O'Farrill
- Avoid the Dock when opening or automatically resizing frames in most situations.
- Up/down movements of the cursor: subtle tweak (jumping to temporary goal column only in series of up/down movements.)
- *'mouse-save-then-kill'* for *'osx-key-mode-mouse-3-behavior'* set to now works fine for double clicks (deleting the selected region) Reported by Konrad Podcizek
- Tcl-mode back in the "New Buffer" menu. Patch by Kevin Walzer
- CPerl mode is still the default for perl files, but perl-mode is not an alias any more for cperl-mode.
- Environment import (from the default login shell) works better now for users of tcsh, zsh and ksh.

13.8 Changes—0.9.7

- Summary: New functions: Mac-style printing, Export to PDF and HTML, Spelling suggestions, New buffer in mode / change major mode menus, a context menu (right mouse click), speed improvements, nXML and AUCTeX included text display improved (international characters and proportional fonts), “wrong command-p” bug fixed and much more.
- Printing: Aquamacs now supports full What-you-see-is-what-you-get printing. Choose ‘Preview and Print’ from the File menu, and the current buffer (or the current region, if one is marked) is typeset using the color theme and the syntax coloring that is active. You can then preview or print it with the standard Mac OS X printing dialogs, selecting a standard Mac printer. (Output to US Letter format only at this point. Sorry!)
- Export to PDF and HTML: The current buffer (or a region if selected) can now be exported to a PDF or HTML file. Syntax coloring (and the chosen color theme except for the background color) are respected.
- LaTeX: Aquamacs now comes with the latest version of AUCTeX, which will allow you to most comfortably edit LaTeX source code and even preview some of the results (e.g. formulas) directly in your document. No need to install an additional AUCTeX package. AUCTeX already works out-of-the box.
It is recommended that you remove any previous installations of AUCTeX.
- nXML: Edit XML code more comfortably with the included nxml-mode. It validates the document as you type. If you don’t like the mode, the following in your Preferences.el file will bring the old XML mode back:

```
(assq-set-equal "<\\?xml " 'xml-mode  
               'magic-mode-alist)
```

Suggestion from Tim Bray.

- Speed: Aquamacs is a little faster now when opening new frames, when frame appearance styles have been defined.
- Right-Mouse-clicks in text now bring up a context menu which allows you to copy/paste, search the word under the mouse in Google or look it up in the system dictionary and switch the buffer.
- Control-Mouse-click is always mapped to mouse-3 (right mouse button) now so Apple mouse and laptop users will consistently get the same functionality. To do mouse-2, just hold down the Command key while clicking. (This does mouse-yank-at-click, a useful functionality that you might be used to from Linux / X11 machines!)
- Alt-Mouse-click&drag allows you to select a secondary selection. (This used to be on Command-mouse-1-drag.)
- Spelling correction (flyspell) will make suggestions upon right-clicking on a misspelled word.

- **Fonts/Display:** Aquamacs Emacs can now display an even wider range of characters with any font available on OS X. Some characters will look nicer. Patches by Yamamoto Mitsuharu
- **Text Display:** Aquamacs now displays text in variable-width fonts with much better letter-spacing. It'll look like in other OS X apps, and reading and editing long texts is much more fun now. Patches by Yamamoto Mitsuharu
- **Navigation in wrapped lines** (not word wrap) is easier now: arrow keys will jump to the next visual line, not to the next buffer/file line. Also, navigation is visual now for variable width fonts like Lucida: jumping up or down moves to roughly the same place in the adjacent line going after what's displayed on the screen rather than counting characters (jumping to the same row number in the next line). If you don't like the behavior, you can turn it off with this code in your Preferences.el / .emacs file:

```
(define-key osx-key-mode-map [remap previous-line]
  'previous-line)

(define-key osx-key-mode-map [remap next-line]
  'next-line)
```

- **Scrolling and setting the point with the mouse** has improved: 'scroll-margin' defaults to 0 now, so scrolling won't happen until you've reached the first or last line in the window - except when you use the cursor up/down keys (and osx-key-mode is on). Then, scrolling takes place a few lines before you reach the boundary. You can configure this via Aquamacs' customization variable 'visual-scroll-margin'.
- **Command-{** comments the line or the region (in programming modes)
- **Command-}** uncomments the line or the region (in programming modes)
- **Command-'** comments or uncomments (toggling) the line or the region (in programming modes)
- **Command-Delete** kills (erases) the rest of the current line. (Command-Backspace kills the whole line.)
- **Filenames with spaces** can now be entered without hassle.
- **Modifier-Key configuration:** Several previously deprecated variables have been removed: 'mac-reverse-ctrl-meta' and 'mac-command-key-is-meta'. Use the much simpler, yet equally powerful variables 'mac-command-modifier', 'mac-option-modifier', 'mac-control-modifier' and 'mac-function-modifier' (experimental) instead. Additionally, 'mac-pass-option-to-system' is deprecated now: instead, set 'mac-option-modifier' to nil to reach the same effect. The use of the Option menu is recommended.

To set the Apple key to Meta (not recommended), add this to your Preferences.el file:

```
tt (setq mac-command-modifier 'meta)
```

- Fn-key can act as Meta. If you have an Fn key on your laptop, you can use it as Meta key now. Add this to your Preferences.el file:

```
(setq mac-function-modifier 'meta)
```

Note that support of the Fn key is experimental. Rare combinations may fail on non-English keyboard layouts, and some keys will not work correctly in combination with Fn and Shift.

- Modifier keys such as Command or Shift show up correctly in the shortcuts (menu)
- New-Buffer menu contains many more modes now, such as modes for Fortran, ObjectiveC, C++, PHP, CSS, JavaScript... You can add your own in the customization variable 'aquamacs-known-major-modes'. The menu is updated automatically.
- Change-Buffer-Mode menu (in File menu) allows to change the mode of the current buffer to something hopefully more useful.
- Recently used major modes are now displayed in New-Buffer and Change-Buffer-Mode menus .
- M-w (kill-ring-save) will now deactivate the mark after saving the region, that is deselect the region, just like on standard Emacs. Apple-C will not deselect the region, just like it's done on the Mac.
- Run executables from within Emacs that lie in your PATH as set in shell init files. Aquamacs will set 'exec-path' automatically from PATH. We don't add paths to exec-path any more (except one default tetex path for AUCTeX).
- Questions like "Save to file before closing?" will be asked with a proper dialog and not with a menu appearing out of nothing - if the last action was carried out with the mouse.

Thanks to CarbonEmacsJP project for part of this.

- Info mode: C-h i will bring up not only up-to-date info nodes for Emacs, but also info on installed packages on the system. (unless you have an INFOPATH environment variable set)
- Mode-specific styles: With a new menu function, you can now apply the style assigned to some other mode, effectively copying it over.
- Mode-specific styles are not applied any more for the major-mode of buffers shown in temporary windows inside frames such as the
- Completions* buffer. This prevents ugly font-switching etc. for the whole frame when just a small window is opened inside the frame.
- New Packages: findr, htmlize, ruby's friends, auctex (latex-mode), nxml-mode, matlab-mode, javascript-mode,
- Notable Updated external packages: ruby-mode, ruby-*, carbon-font

- Apple/Command key is now called 'A-' internally because it looks like "Apple-" (while it's really the otherwise unused "Alt" key). It used to be "H-" (or: hyper), so change your configuration code in case you've defined your own shortcuts.
- One-Buffer-One-Frame is a minor mode now (called one-buffer-one-frame-mode). Use the Options menu (and Save Options) to turn it on/off, as before. In this minor mode, you have some additional key bindings now:
C-x B, C-x C-B, C-x S-left, C-x S-right they all do the same as their corresponding functions without the Shift key, but they will show the buffer that they are switching to in the same window, even though one-buffer-one-frame-mode is on.
The mode has been revised to open fewer extra windows when their content is related to a specific frame - for example version control checkin comments.
- Manual: The Emacs Manual that comes with Aquamacs (as an Apple Help document) has been updated to reflect the basis of Aquamacs, namely the upcoming Emacs 22.
- Command-p-Bugfix: For some users, Emacs locked up at random times, showing a message like (wrong command-p ...) in the echo area of a frame on every input. This bug in the underlying GNU Emacs should be fixed now. Patches by Yamamoto Mitsuharu, Richard Stallman, et al.
- Bugfix: Aquamacs now correctly remembers the positions of frames with specific files, so they open again on the same screen position if the file is re-loaded (in the same session, or after "Save Options" in the next session).
- Bugfix: Bookmarks did not work with 'one-buffer-one-frame' turned on.
- Bugfix: Some Show/Hide options weren't saved by "Save Options".
- Bugfix: links from describe-variable/function help buffers to the source files are correct now for the Aquamacs-specific objects
- Bugfix: Aquamacs works fine now on systems where, in the default shell (e.g. via .bash profile), functions have been defined and exported. Reported by Terry Jones
- Bugfix: RefTeX mode doesn't give constant audio signals (errors) any more in certain situations
- Bugfix: Allout mode should work again (saving files) Reported by Gerry Brush Patch by Ken Mannheimer
- Donate: Happy about the new version? Want further improvements? Please donate to the Aquamacs project at <http://aquamacs.org/donate> - Thank you.

13.9 Changes—0.9.6

- Aquamacs now provides extended input methods for Korean, Japanese and Chinese (GB/BIG5). You can select them in the Options menu, under "Aquamacs Multilingual Environment" / "Set Language Environment" - everything is integrated with Mule.

In order to load more fixed-width fonts suitable for use with Asian languages, you may want to load the carbon-font package, which is included (but not activated) in Aquamacs. Just add the following to the file `/Library/Preferences/Aquamacs Emacs/Preferences.el`:

```
(require 'carbon-font)
```

```
(maintained by Mahn-Soo Choi.)
```

- CSS-Mode fixed. (First reported by Kris Khaira and Michael Jakl.)
- Dual-head setups (two screens) with one screen on the left, the system menu on the right and Aquamacs frames on the left caused problems. (reported by Otto Karl Florian Diesenbacher)
- `osx-key-mode-map` can now be changed to modify key assignments, in particular those of Apple Command keys (implemented in Emacs as Hyper = H- keys.) (reported by William Ziemer)
- "font-lock-keywords ... void" message used to appear when attempting to load a new file. This bug in the underlying GNU Emacs has been fixed.
- Apple-Q and iconized frames: When all frames were iconized and one attempted to quit Aquamacs, the application seemed to hang (because it was showing a minibuffer prompt in an iconized frame.)
- Thanks for the donations!

13.10 Interface/Usability Improvements—0.9.5

- The application is now called Aquamacs Emacs.
- The menu of Recent Files will abbreviate long paths now.
- Renamed "Option key produces only special characters" to "Option key for Meta (not for extra characters)."
- C-x C-f (find-file) will bring up a window first before asking for the name of the file to be loaded.
- Files saved with Aquamacs have a nice file icon now.
- Text is now nicely shown a little to the right in windows. In the left "fringe", you can see small dots indicating the end of the buffer, and a small triangle indicating continued lines. If you cannot see them, your Frame / default style overwrites it. Select "Options / Frame Appearance Styles / Reset all styles" to make the fringes appear.

- The “frame appearance styles” system has been revised. *Messages* now has a distinctive colored background. To change this background (or the one for *Help* buffers), customize the variable ‘aquamacs-buffer-specific-frame-styles’. Also, you can turn Frame Appearance Styles on and off with a menu item.
- Setting the frame font gives a warning now (that the font is only set for the current frame), or sets it as default if Frame Appearance Styles are off.
- Frame-related functions from File menu are now in Buffers menu.
- 1on1-* customization variables are gone—most of them were not in working order (in Aquamacs) anyways due to the way we were using the Oneonone package. This gets rid of quite a bit of doubly implemented functionality.
- You can switch the Option key from its Emacs-specific Meta meaning to its Mac typical use (composing keys such as ü (Engl. keyboard) or the backslash (German keyboard) by typing Apple-; – this is equivalent to the Options menu entry “Option key for Meta.”
- The customization variable aquamacs-auto-frame-parameters allows you to turn off mode-specific styles—your frames stay the same, no matter what major mode you switch to.
- Frame Appearance Styles have a better menu structure now in the Options menu. Also, there is a new function “Delete all mode-specific styles”.
- Many menu items are now greyed out (cannot be selected) when no frame is visible.
- Help (Aquamacs Manual) has been revised.
- (Even) speedier startup.
- Every Aquamacs frame has a toolbar-button now. Use it to turn the toolbar in the given frame on and off.
- Improvement when working with multiple frames: when no frame is visible, Aquamacs no longer raises some other frame as soon as a file is loaded.
- Mode-specific styles revised: the full set of parameters coming from color themes is now supported, in addition to the font and toolbar setting.
- Menu item to delete the mode-specific style for the current major mode.

13.11 New and Updated Major Modes—0.9.5

- Better support for editing HTML: HTML-Helper-Mode is included.
- Emacs Speaks Statistics is included. (Minor glitches with toolbar and info files are known and will be addressed.)
- Auctex configuration now turns on abbrev-mode and flyspell-mode when latex-mode is started (instead of toggling them). (reported by Robert Sloan)

- Page-wise scrolling is more reliable—that is, it is really page-wise and you can always return to the same line. (Pager package)

13.12 Bug Fixes—0.9.5

- Font “Bitstream Vera Sans” works again.
- Exiting view mode (e.g. help) with ‘q’ deletes the frame instead of iconifying it.
- The (Apple Help) manuals work now on systems where tcsh is the default shell. (Reported by Arthur Ogus)
- Startup with arguments -nw (tty / in terminal) revised.
- You can now redefine Aquamacs keys like this:

```
(define-key osx-key-mode-map [end] 'end-of-line)
```

(Thanks for reporting: Andreas Hess.)
- If the user changes mac-command-modifier, it may be advisable to call

```
(osx-key-reset-mode-map)
```

This will ensure that the keymap is updated and Aquamacs installs its Mac-like keyboard commands (provided you want this).
- New frames will not open behind the Dock any more.
- An error message (harmless) when clicking on “Finish” in customize is gone.
- Error message during version check on startup removed (occurred in certain cases where users had upgraded their system.)
- In particular in TeX mode, Aquamacs tended to give audio signals all the time when there were internal exceptions (internal errors signaled) with parsing the TeX code. Therefore, we do not ring the bell any more, i.e. aquamacs-ring-bell-on-error-flag is nil by default. (Reported by Ken Bloom and Andreas Hess)
- Speedbar works when one-buffer-one-frame (“Open Buffers in Separate Frames”) is turned off.
- Option-up/down (if Option is meta) now scrolls page-wise.
- Other bug-fixes.

13.13 Bug Fixes—0.9.4

- Bug reports contain the subject line that the user entered.
- No more (delay due to) tramp mode on startup in cases where tramp mode had been used before (recentf).
- Files on externally mounted volumes are not checked for readability any more for exclusion from recent files list. (Reported by Bill Clementson)

- No more warnings when fonts are missing (on startup).
- Drag and Drop while in minibuffer works again.
- Mouse-2 works again.
- default-major-mode and initial-major-mode are respected now. initial-frame-alist is not modified any more. Note that other than in any standard Emacs, mode-specific settings always take precedence over default-frame-alist (but not over initial-frame-alist). (Reported by Rick Zaccone, Joe Davison and Peter Dyballa)
- No more warnings in customization buffers that the values have been changed outside customize (for certain variables).
- Gnus articles (newsreader) open in same frame now.
- Gnus has a useful (free) nntp server set so you can start right away.
- Send Email with Sendmail is gone from menu (doesn't usually work on OS X).
- Fonts corrected: Some glyphs in some fonts turned out wrong when in bold or italic. Also, font sizes are correct again (Lucida 14 is Lucida Grande 14, not 12 or so). The default font size for text-mode (and similar ones) is set to Lucida 13 to make up for the change. Apologies for any inconvenience this may cause with your default settings. (Reported by William Henney)
- Better customization for aquamacs-mode-specific-default-themes
- The customizations file (customizations.el) doesn't grow any more. (Reported by Alastair Rankine.)
- Various corrections in the Aquamacs Manual.
- Plugin support: All files named site-start.el anywhere in the load-path are loaded at startup, before the user's init files are loaded. For example, such a file may be placed in /Library/Application Support/Aquamacs Emacs/myPlugin. This feature enables support for easily installable plugins.
- We anticipate shorter startup times in the next release. Stay tuned.

13.14 Bug Fixes—0.9.3a and 0.9.3b

- Fixed “wrong argument type” problem (version check), which could occur in new installations or those updated from 0.9.1.
- Monaco 18 font present (suggestion: David M. Cook).
- Emacs Manual available again.
- Save mac-pass-option-to-system when saving options.

13.15 Bug Fixes, Features and Changes—0.9.3

- Initial-frame-alist is respected. (Reported by Alastair Rankine)
- When saving a buffer and the Finder is not running, the Finder is not opened any more. (Reported by George W. Gilchrist.)
- Using dead-keys (like Option-u or Option-n on most keyboards) works again. (Reported by Howard Melman and Pierre Albaredo)
- When modified files existed, but no frame was visible and one tried to quit Aquamacs, the application seemed to hang while prompting for keyboard input (Save file? y/n) in an invisible window. This has been fixed.
- If no frame is visible and you input text, the frame is made visible so you can see what you are doing.
- Closing windows consistently with the mouse now works properly.
- Clicking on links to source files in help buffers properly opens a new frame (if “open buffers in separate frames” is on).
- When the buffer shown in a frame changes, sometimes the color theme and font were not set correctly; this has been addressed. This could happen when “Show Buffers in Separate Frames” was off, and one killed a buffer. (Reported by Peter Dyballa.)
- When “Show Buffers in Separate Frames” was off, and one killed a buffer (kill-buffer, C-x k), the frame was deleted.
- You have the option to save newly created buffers (Command-N) that have not been saved yet when you quit Aquamacs.
- Less frame-dancing (resizing) on startup.
- AUCT_EX uses the standard commands again. The menu is unstructured for this reason. (Reported by Robert Sloan.)
- No frames could be opened when using a two-screen setup with the menu bar on the right screen, and a currently selected frame on the left screen. This has been addressed. (Reported by George W. Gilchrist.)
- Customizing a style for a special display frame (e.g. help or customization) works now.
- Recent Files/Clear Menu works again.
- Paths and other environment variables are now derived from the shell when you start Aquamacs.
- Your settings for highlight parens, “Blinking Cursor,” etc. are now persistent. The function Options/Save Options (menu-bar-option-save) now correctly saves such settings. This should include most customization settings except some that Aquamacs relies on for proper clipboard copy/paste functionality.

- The font menu (Options) no longer includes non-existent fonts.
- Option/Show-Hide/Menu Bar is gone because you cannot turn off the menu bar on OS X.
- “Send Emacs Bug Report” now uses the OS X default mail program to compose a message. This ensures that bug reports actually go through. Before, they did not, unless you were running a local SMTP server (sendmail/postfix), which is not enabled by default.
- Fixed loading of files when file names contain certain Kanji characters, due to a bug in AppleScript.
- The menu shortcut entries were corrected.

- Characters that require the use of the option key work again. For example, Alt-3 produces the pound sign (£) on a US keyboard, Alt-L the ‘at’ sign @ and Alt-Shift-7 the backslash \ on a German one. Inputting the Euro sign works, too. *However, that means that the option key is not used to emulate the ‘meta’ modifier; you will have to use Esc to do that.* Alternatively, you can map the option key to meta in your .emacs file:

```
(setq mac-option-modifier 'meta)
```

- Improvements in the fontset selection allow you to display the Euro sign with the default font.
- We have moved Aquamacs to <http://aquamacs.org>.

The Aquamacs wiki is now at <http://www.emacswiki.org/cgi-bin/wiki/AquamacsEmacs/>.

The Aquamacs bug reporting address is now <mailto:aquamacs-bugs@aquamacs.org>. This can be accessed from directly within the Aquamacs Help menu.

The general Aquamacs mailing list is still <mailto:macosx-emacs@email.esm.psu.edu>; e-mail <mailto:macosx-emacs-on@email.esm.psu.edu> to subscribe.

- Slightly faster startup.
- Runs on OS X 10.3.9, 10.4.0 and 10.4.—tested.
- Aquamacs automatically checks for updates and notifies the user if there is something new. This function communicates with an internet server; it does not transmit any information identifying the user. If you would like to know more about what is transmitted, use M-x aquamacs-check-version-information. If you like to turn this check off, add this to your file /Users/yourname/Library/Preferences/Aquamacs Emacs/Preferences.el:

```
(setq aquamacs-version-check-url nil)
```

- Adding Emacs packages is easier now: Emacs automatically finds packages in subdirectories within the /Library/Preferences—Application Support/Emacs—Aquamacs Emacs/ paths.

- Aquamacs now sets the file creator information of files it writes. This helps to open the file from Finder with Aquamacs when you double-click it. Feature can be turned off via customization option “aquamacs-set-creator-codes-after-writing-files.” Also, Emacs will appear in the Finder’s context menu under “Open With” for a lot of files that it is commonly used to edit.
- You can start Aquamacs in a terminal (by running `/Applications/ Emacs.app /Contents/ MacOS/ Emacs`) with parameter `-nw` and will show up in the terminal rather than as a Carbon application. Basic file editing and all traditional commands work. However, Aquamacs-specific keyboard commands (with the Command key) will not work and other functionality may be limited, too. *Warning:* This mode of use, which may break in future versions, is not supported by the Aquamacs team.
- We make sure that the `*Completions*` buffer (and similar things) open as a window inside the frame directly above the Minibuffer, and not in a new frame.
- All newly opened frames open in a somewhat useful position, so they are not in the way. (If you do not like this, we suggest you set your own static frame positions via “set current style as default” and also add this to your file `/Users/yourname/Library/Preferences/ Emacs/Preferences.el`:

```
(setq smart-frame-positioning-enforce nil)
```

Or, if you would like to go with the default position all the time, turn the global minor mode off:

```
(smart-frame-positioning-mode nil)
```

13.15.1 Fonts

- Aquamacs should not complain about missing fonts any more when you have upgraded from earlier versions and set scalable fonts as default fonts for modes or all frames. They get filtered automatically.
- Users with certain setups (cyrillic Lucida Grande) should not get a “default font not found” error any more.
- “Recursive Minibuffers” are enabled.
- “Subscribe to mailing list” in Help menu.
- PHP-Mode included (`M-x php-mode`).
- Ruby-Mode included (`M-x ruby-mode`).
- `yes-or-no-p` is customizable now. Use the new customization variable `aquamacs-quick-yes-or-no-prompt`. (Thanks: Pavel Hlavnicka.)
- Soft word wrap (`longlines-mode`) is available from the Options menu. To make it the default, add this to your preferences file: `(set-default 'longlines-mode t)`
- Case-insensitive search option has gone into “search” submenu (in “Edit”).

- If you are in an empty frame (i.e. a frame with an empty buffer) and you load (find) a file, Aquamacs will not open an additional frame. This is useful also for drag and drops, when a scratch frame is open.
- The secondary selection is back: use the Command (Apple) key together with clicking/dragging the mouse cursor over text in order to select text that is not related to the point (cursor). This way, you can select text and then scroll somewhere else. Extend your selection with shift-command-mouse1. To copy/cut the text in the secondary selection to the clipboard, use Shift-Command-C/X, respectively.
- Some key-bindings are more like the original Emacs ones—in particular M-w, which does kill-ring-save again. (Idea: Joe Davison) Also, Home and End keys work as expected.
- No more annoying system “ding” (bell ringing) all the time. The bell is turned off completely, until Emacs developers eliminate the use of the bell on user-initiated abort actions (such as ESC ESC ESC when in minibuffer, or pressing Cancel in the file selection dialog).
- The toolbar is only displayed in normal frames, but not in frames that show help/info buffers. (tool-bar+ and aquamacs-tool-bar packages). Turn such tool-bars on/off in Options/Show/Hide menu.
- The “About Emacs” dialogue has been improved.
- Key combinations with the option key that involve another modifier (that is, ctrl or command) will now work, even though simple option combinations are handled by the system to produce special characters.
- The Speedbar is back. Activate in Options/ Show/Hide.
- The redo function is in the Edit menu now.
- New buffers (File / New) open in Text Adapt Fill mode now.
- .save-places and customizations.el do not show up in the recent files list any more.
- auto-save-files (in / Users / yourname /.emacs.d) are now saved to / Users / yourname/Library/Preferences.
- “Save Place in Files in between sessions” will not generate files in the user’s home folder any more. Instead, the file goes into / Users / yourname/Library/Preferences/Aquamacs Emacs/ where it belongs.
- Command-’ now cycles between different windows (suggested by Joseph Kiniry.)
- Option is mapped to Meta by default, allowing you to enter key combinations such as C-M- easily. If you’d like to map it to alt instead, just add this to your .emacs:

```
(setq mac-option-modifier 'alt)
```


- Color Themes: The color-themes package has been integrated in Aquamacs. Use the Option/Color Theme... menu command to choose a set of predefined colors for editing source code or writing texts. This applies to the current frame only, but you can make it the default for all new frames or for all frames in a specific mode with the according menu commands.
- There is a new customization group called “Aquamacs” that allows you to modify the customizations introduced by Aquamacs. This is fairly untested - unexpected results may occur. If so, try to locate and fix the bug and send us a patch. If you couldn’t find the problem, please report via Help/Send Bug Report... PLEASE NOTE that a lot of customization variables have changed their names—usually, you just need to prepend `1on1` to them.
- Aquamacs will load your configuration files not just from `/Users/yourname/.emacs`, but also from the location that is appropriate for a Mac OS X installation:
 - `/Library/Preferences/Aquamacs Emacs/Preferences.el`
 - `/Users/yourname/Library/Preferences/Aquamacs Emacs/Preferences.el`
 - `/Library/Preferences/Emacs/Preferences.el`
 - `/Users/yourname/Library/Preferences/Emacs/Preferences.el`

It is recommended to use these instead of `/Users/yourname/.emacs` on OS X-only installations. The first two files should be used for the host-wide and user-specific Aquamacs configs, the latter two for general Emacs configurations.

- There is a new configuration option that gives you more fine-grained control over how the option modifier key is handled.
- If `mac-pass-option-to-system` is `nil`, your Aquamacs will get all key combinations. If you press option-3, Aquamacs will see “M-3” (or, depending on `mac-option-modifier` “A-3”). If it is non-`nil`, you will simply get the pound sign on a US keyboard.
- TeXniScope support in LaTeX mode (if installed in `/Applications`).
- We have two great manuals available comfortably via Apple Help now, directly from within Aquamacs Emacs (Help menu). There is a brand-new Aquamacs manual, and there is Richard Stallman’s original Emacs manual. They can be searched (e.g. via Spotlight on OS X 10.4). We also provide direct access to the online configuration Wiki, which has been filling up with content nicely. Please contribute; everybody has write access!