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## Aquamacs - An Appreciation

A slightly over-complicated document in  $\text{\LaTeX}$  to explore gotchas in using the `lwarp` package to prepare documents for automatic re-purposing for the web and e-books.

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### 1 Is Aquamacs Emacs?

Aquamacs is not a fork of Emacs. It **is** Emacs. What makes it different is ready availability of common `macOS` keyboard shortcuts, menu conventions and mouse operations. It is easier to get real work done earlier in your GNU Emacs learning phase, which is a life's work.

`macOS` has waved a magic wand to make this possible. Almost entirely by accident.

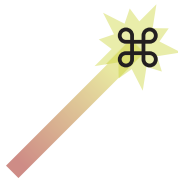



Figure 1: *Izzy Whizzy, Let's Get Bizzy*

Because GNU Emacs is venerable open source, the  $\text{\LaTeX}$  makes no appearance there. This happy disjunction is a gift for Aquamacs beginners. When recalling Emacs commands is too overwhelming for something you can do natively in `macOS`, just do it the  way.

Traditional Emacs knows nothing of the `macOS` menu bar. Aquamacs Emacs makes great use of it.

Remember that `macOS` is officially Unix. There are lots of Unix commands that match those of Emacs. Inside the Terminal

app many shortcuts display their common unix and Emacs ancestry despite the famous “GNU’s Not Unix” *bon mot* by Richard Stallman in 1983.

A few Emacs commands have found their way into Apple’s own text handling frameworks. `Ctrl-a`, `Ctrl-e`, `Ctrl-b`, `Ctrl-f`, `Ctrl-d` and `Ctrl-t` do exactly the same job in Emacs.

#### 1.1 Why bother with Emacs?

You probably use several applications that handle text – Finder, TextEdit, Word, InDesign, Excel, Mail, Terminal, Xcode,  $\text{\LaTeX}$ , Safari, Usenapp ...

Most of the biggies in that list handle text in their own private “Integrated Development Environment”. Each does many of the same jobs in different ways to the others. Sometimes it is the big hitters sucking you into their eco-systems. Sometimes it is a mistaken goal of Windows compatibility. Other than those, it must be a (S)IDE salad. One has to invest a lot of time learning all those IDE’s different ways to do the same basic job.

Does Aquamacs offer a better return on that investment? The answer is a guarded maybe. If you work exclusively in a narrow subject area like vector graphic art, and your boss says it has to be Illustrator, then Emacs is not for you. If you freelance, and switch between Affinity Designer and Adobe Illustrator you might be tempted to look at Aquamacs. If you are authoring books, you might want to flick between Word, Libre Office, InDesign, Affinity



matching closing quote? Or perhaps some clever algorithm that decides earlier based on what was inside and outside quoted passages? The practical answer lies in the full name of the Emacs command – Interactive query-replace-regexp. It shows you each match and waits for you tell it whether to do it or not with a single character response. One of which is !, meaning do the lot. Emacs has far more clever undo than anything else. It is easy to see when it is matching the wrong way and stop, then undo back to the first mistake. Much quicker than writing a bug-free program in some other language, including Emacs own internal language elisp.

Regexps are rules for searching for patterns. In the real world there are many subtly different regular expression implementations. This is why Emacs for everything is better than dealing with more than one Integrated Development Environment.

The regexp examples above are presented as screengrabbed images. I did this because the L<sup>A</sup>T<sub>E</sub>X source is being used to automatically produce web pages and e-book versions. HTML would make a mess of them, and automatic e-book conversion would too.

	<b>Elisp Command</b>	<b>Function</b>
⌘N	new-frame-with-new-scratch	Create new buffer
⌘O	find-file-other-frame	Open a file
⌘W	close-window	Close selected window deleting buffer
⌘⇧S	write-file	Save as
⌘A	mark-whole-buffer	Select all text
⌘V	cua-paste (yank)	Paste text
⌘C	clipboard-kill-ring-save	Copy text
⌘⌘X	aquamacs-keyboard-kill-secondary	Cut text from secondary selection
⌘S	save-buffer	Save file
⌘L	goto-line	Go to specified line
⌘F	isearch-forward	Search
⌘G	isearch-repeat-forward	Repeat search
⌘E	aquamacs-use-selection-for find	Use selected text for next search
⌘;	spellcheck-now	Jump to next spelling error
⌘M	iconify-or-deiconify-frame	Minimise window to the dock
⌘.	keyboard-quit	Keyboard quit
⌘,	customize	Show customisation buffer
⌘'	(un)comment-region-or-line	Comment out or in the current line or region if marked
⌘⌘	kill-whole-visual-line	Deletes the current line
⌘⌘	kill-visual-line	Deletes the remainder of the current line
⌘Q	aquamacs-save-buffers-kill-emacs	Save file, exit program
⌘Z	undo	Undo
⌘⇧Z	redo	Redo