Nu	Modern keybinding for Emac

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This manual is for Nu (version 0.3 of 2014-08-03), a modern keybinding for Emacs. Copyright © 2014 Pierre-Yves Luyten.

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1 Overview

"Nu " is a modern keybinding for Emacs.

nu-mode is a global minor mode, its keymap, and the commands which are not provided in raw Emacs.

Modern, means respecting conventions like

- 1. Control-f to find
- 2. Control-r to replace
- 3. Control-s to save
- 4. Control-x, Control-c, Control-v to cut, copy, paste.

To allow user to leverage large panel of functions, nu-mode relies on prompts. For example, Control-f raises a prompt precising which key - actually, which sequence - to press in order to execute desired function : once Control-f has been pressed and the "Find-prompt" appears, pressing f will toggle ace-jump-char-mode, C-f will start a regexp search, while g will execute goto-line, or s will move point to previous selection.

Most common shortcuts - ie, common to most applications - respect this guideline. Thus, there is a prompt for s, v, a... Almost all prompts rely on Control modifier to be run. There are exceptions. Since Control+s invoking a prompt would be irritating, this sequence directly saves buffer, while Alt+s runs the "save prompt".

nu-emacs does not only provides nu-mode. There are also two independent parts

- 1. nu-alias is a simple mechanism to define aliases into org-mode file(s). This way its easier to maintain aliases to be invoked from Mx. See its REAME.
- 2. dhammacakka is a light set of customization. See its README.

1.1 Dependencies

Nu depends on several libraries, both native or external ones:

- 1. help-fns+
- 2. undo-tree
- 3. ace-jump
- 4. recentf
- 5. cua-selection-mode
- 6. magit is optional

1.2 Help

Use Control-q to quit a sequence or a command in progress. Use Alt+z to undo last command. Use Control+h to gain access to help functions. This includes the usual shortcuts to describe what a key does, or what a function does. If you messed up, use Control+w then Control+q to quit.

Prompts are usually triggered using a *Control* modifier and advertise a function using the same key, but with *Alt* modifier. For example, *Control-f* will pop-up a find-prompt, while *Alt-f* will directly allow you to 'ace-jump' to a char.

These prompts offer you to quickly learn where functions are.

2 NU for the power user

If you are not used to Emacs, reading this chapter is not necessary. But Emacs veteran should probably start here. emacs-nu redefines many keys, however two points make learning curve shorter

- 1. For any user, knowing CUA keybinds will make emacs-nu discoverable.
- 2. For veteran Emacs user, two important sequences remain:

M-x is still there. This means, you can probably obtain what you want. Also, Control+h for help-prefix is still there.

Now, two things should probably be kept in mind while trying nu-mode

1. To trigger a major mode sequence, start with Control+Space. This will invoke vanilla emacs Control+c. For example, into org-mode, use Control+Space Control+n to navigate to next node. If you already defined you own keys starting with Control+c, do not amend this definition.

(define-key mykeymap kbd("\C-c h") myfunction)

To invoke above myfunction example, press Control-SPC h.

2. You should not rely on *Control+x*, or at least no regularly. However to trigger x prefix, use *Control+g*. This will raise a prompt to trigger Control-X-Prefix.

'Repeat' is invoked from <code>Control+Return</code>. It was hacked to work with prompts: thus, you can repeat a command ran from a prompt. Prefix arguments (numeric-argument, negative-argument) can work: either use standard <code>Alt+1</code>, <code>Alt+2</code> ... shortcuts plus one command. Or, from a prompts, directly type a figure (not a number) then choose the command (eg, from delete prompt, type 3 then invoke kill-word to kill 3 words). Alternatively, first trigger the argument from standard shortcuts, then call the prompt. What is invoked from the prompt will make use of that argument.

Note that 'where-is' function, which sometimes advertises shortcuts, will not work as usual, since a prompt is not a keymap: 'where-is' do not know how to invoke Control-f then k to reach end of buffer. (Did you try where-is git push in magit?)

Thus:

- 1. For each function accessible from a prompt, an additional shortcut is created, accessible from menu plus the same key than the prompt, in order to make where-is advertise. Hence, if you read 'You can run this command with <menu> f k', please understand, despite it is also true, that you can also run the command with Control-f-k.
- 2. From the help prompt (Control-h), run h to invoke nu-help. This function will present you all prompts, and will offer you to describe their keymaps that is, all the functions you can access from these prompts.

3 View and Edit

Obviously just type keys to input text. With slight notes : Alt+mto carriage return + indent. Use Alt+v + c to insert literally a character.

3.1 Navigate

While arrows still work, Nu uses Alt key to navigate. Hence, the thumb often presses Alt key, while pinky finger remains safe. This is exactly the same principle than ErgoEmacs applies. Navigate up left right down using Alt and:

```
I
J K L
```

Additionally, use Alt u and Alt o to move to previous, next word.

UIO

JKL

Use Alt+\$ to go to end of line, or Alt+\$h\$ to go beginning of line. To reach a line or a specific character, or the beginning of buffer, or the end of the buffer, use Control+\$f\$ then the appropriate key. Just read the prompt. Or use Alt+\$f\$ if you just want to find-char.

Notice that f key, used both with 'control' and 'alt' modifiers, offers find-related features. One of these keys is direct: it directly executes a command, & maybe a very common one. The other key does raise a prompt to offer more features. This principle to have one 'alt' modifier plus one 'control' modifier applies to other keys, as well.

Numeric arguments can apply to navigation. Press Alt+1 then Alt+5 to input 15 as a numeric argument; now input Alt+k to go down one line: this will go down 15 lines.

'Repeat' also applies to navigation. Enter Control+Return to repeat a navigation.

However - let's finish with navigation. Use Alt+Space to scroll (to the bottom), and Alt+Backspace to go back to the top. Emacs vanilla keybindings for 'help-mode' and some other offer Space and Backspace to do this - this is one of the few conventions respected into Emacs-nu. Yup.

This navigation chapter is meant as a general introduction to emacs-nu; because navigation is a basis, but also because we saw many emacs-nu principles:

- 1. Direct keys for most common operations.
- 2. Prompts for slighly less common to rare operations.
- 3. Numeric arguments.
- 4. Repeat.
- 5. Few emacs convention respected, but some.

These same principles apply to other prompts.

3.2 Selections and Deletion

Now that you can input text plus navigate, let's examine several alternatives to delete (cut) text.

- 1. Use Control-x to cut the current line.
- 2. Use Control+j, Control+l to delete backward, forward char.

- 3. Use Control + u to delete previous word.
- 4. Use Control + \$ to delete up to end of line.
- 1. Use Alt+d to trigger a prompt. This will offer you to delete what you want (function, org-node, sentence, ...).
- 2. Alternatively, first mark (select) text you want to select then use Control+x.

Right, but how to select? Once again, several alternatives...here we go

- 1. The paddle allow to directly select ("mark") text: keep <code>shift</code> pressed, then move either with arrows or <code>Alt+<some</code> key of the paddle>. Using <code>Alt-Shift-u</code>, for example, will select previous word (or extend current selection to previous word).
- 2. An alternative in order to select text is to press Alt+a to set a mark, then move to extend selection. You can also use a direct key to set a rectangular mark: Control+S, ie Control+Shift+s.
- 3. An alternative is to press *Control+a* to invoke "a-" prompt, allowing to select "a-" word, "a-" sentence, and so on, or to set the mark. Or, to set a rectangular mark. Read the prompt!

Once some text is selected you can "toggle the point and mark" using Control+a, or deactivate the selection using Alt+a, or cut the text using Control+x (or Alt+d might be nice depending on your fingers position).

3.3 Cut Copy Paste

When no selection is active, use Control + x to cut current line, or a deletion command since deletions actually cut text (as a reminder : emacs 'kill-' commands will copy to kill-ring, while emacs 'delete-' commands will not).

Use Control + c to copy current line, or, while a selection is active, copy this selection.

Use Control + v to paste the current clipboard. Following Control + v will replace this paste with precedent clipboard item. However, if you need to paste several times, first invoke a numeric prefix argument to specify how many times to paste, then type Control + v. Or, you can use Alt + v to invoke an advanced "Paste" prompt.

3.4 Undo or Redo

Use Alt+z to undo. Or, use Control+z to invoke undo-tree visualizer to play with discard changes in an advanced way. This screen displays last changes, and you can navigate these using the paddle (Alt+i, Alt+j, Alt+k, Alt+l). Press q to quit this screen.

3.5 Advanced Edition

Some advanced editon features rely on *Control-r*, which will invoke replace prompt, allowing you to replace-regexp, merge-lines, delete spaces, or invoke other functions.

- 1. Alt+y will copy to current line char under point (on the below line).
- 2. Alt+e will copy to current line char above point (on the above line).

Alt+v prompt to open a line. Alt+s prompt allows you to save current column as a goal-column. While you move next and previous lines, cursor will try to reach this column as far as possibe.

4 Files Buffers Windows

Use Control+s to save current file, Alt+s to invoke a prompt to rename it.

- 1. Use Control+o to open a file, a window, a buffer, or use bookmarks,... Or move to another frame...or buffers list...
- 2. Use Control+w to raise a prompt offering to close this frame, or move to another frame, Or Alt+w to make this frame the only visible one.
- 3. Use Control+n to open a sracth buffer (blank untitled buffer) or split current frame.
- 4. Use Control+t to open another tab. It directly shows up an ibuffer list.

 $^{^2}$ will invoke buffers list on the current frame. The tab invokes on another one. $\hat{\mathbf{A}}$

5 Hacking

The print buffer, invoked from Control+p, will offer you to eval things or make (compile). The insert prompt, invoked from Alt+v, will allow you to insert a file, or the result of an async shell command into a new buffer. The save buffer, from Alt+s, offers to use git power to save cats or so.

Control+p also offers to grep, find-grep or ediff.

6 NU & other libraries

How does NU integrate with other libraries?

6.1 org

As of today, NU has few features related to org. Alt+s prompt will allow you to org-store-link. Alt+v prompt will allow you to org-table-insert-column or row. More will come later; as usual help is welcomed!

6.2 magit

Use Alt+s, ie save-prompt, to gain access to magit-status.

6.3 evil-mode

While nu-mode is not a modal editor, and aims at being the most efficient keymap, sometimes using lot of modifiers might still be harassing. Using vim keymap is feasible: you can activate evil-mode, then switch from evil-state to emacs-state as you want.

Even while in evil-state, you will enjoy a few nu-mode keys, like Alt+v, Alt+f, and probably many others. However vim paddle (hjkl for left down up right) and nu-mode paddle (ijkl for up left down right) disagree on three of these four keys! If you want to have evil with nu-mode paddle, I recommend you to make vim paddle similar to nu-mode. Since i will not be available anymore to insert, use h for this purpose. Simply put below lines on your .emacs:

```
(define-key evil-normal-state-map (kbd "h") 'evil-insert)
(define-key evil-normal-state-map (kbd "j") 'evil-backward-char)
(define-key evil-normal-state-map (kbd "i") 'evil-previous-line)
(define-key evil-normal-state-map (kbd "k") 'evil-next-line)
```

Obviously this only fixes the basic paddle. Backward and Foward word are different, but fixing the paddle is fine.

7 Contributing

As of today nu-mode only has one author, & contribution is more than welcomed. Please look at github.

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