Nu	Modern keybinding for Emac

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 start a regexp search, while g will execute goto-line, or g will move point to previous selection.

Inverse is sometimes true: 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 independant 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+Alt+Space*.

'Repeat' did not work fine with prompts. As of today it is hard to trigger. However prefix arguments (numeric-argument, negative-argument) should do fine with prompts.

Note that 'where-is' function, which sometimes advertises shortcuts, will not really work, 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+m to 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. 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. U I O J K L
```

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.

However - let's finish with navigation. Use <code>Alt+Space</code> to scroll (to the bottom), and <code>Alt+Backspace</code> 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.

3.2 Selections and Deletion

Several alternatives offer 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

- The paddle allow to directly select ("mark") text: keep shift pressed, then move either
 with arrows or Alt+<some key of the paddle>. Using Alt-Shift-u, 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.
- 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.

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.

3.5 Advanced Edition

Some avdanced 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. Control+g global prompt will also propose goal-column feature. (This prompt is hard to reached; it won't offer really much.)

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-storelink. 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.

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