GNU Emacs Reference Card

(for version 19)

Starting Emacs

To enter GNU Emacs 19, just type its name: emacs To read in a file to edit, see Files, below.

Leaving Emacs

exit Emacs permanently	suspend Emacs (or iconify it under X)
C-x C-c	C-z

Files

version control checkin/checkout	write buffer to a specified file	replace this file with the file you really want	insert contents of another file into this buffer	save all files	save a file back to disk	read a file into Emacs
C-x C-q	C-x C-w	C-x C-v	C-x i	C-x s	C-x C-s	C-x C-f

Getting Help

The Help system is simple. Type C-h (or F1) and follow the directions. If you are a first-time user, type C-h t for a tutorial.

get mode-specific information	describe a function	show the function a key runs	apropos: show commands matching a string	scroll Help window	remove Help window
C-h m	C-h f	C-h c	C-ha	C-M-v	C-x 1

Error Recovery

abort partially typed of executing command c-g	DIIP	C-09
recover a file lost by a system crash	M-x	M-x recover-file
undo an unwanted change		C-x u or C
restore a buffer to its original contents	M-x	M-x revert-buffer
redraw garbaged screen		C-1

Incremental Search

abort current search	undo effect of last character	exit incremental search	select next later search string	select previous search string	reverse regular expression search	regular expression search	search backward	search forward
C-g	DEL	RET	M-n	M-p	C-M-r	C-M-s	C-r	C-s

Use C-s or C-r again to repeat the search in either direction. If Emacs is still searching, C-g cancels only the part not done.

Motion

scroll current line to center of screen	scroll right	scroll left	scroll to previous screen	scroll to next screen	go to buffer beginning (or end)	function	sexp	page	paragraph	sentence	go to line beginning (or end)	line	word	character	entity to move over
	C-x	-D	M-v	C-v	M-<	C-M-a	C-M-b	C-x [M-{	M-a	C-a	С-р	M-b	C-b	backward
C-u C-1	× ×	C-x <	-Ψ	-ν	M->	С-М-е	C-M-f	C-x]	M-}	М-е	C-e	С-п	M-f	C-f	l forward

Killing and Deleting

yank back last thing killed replace last yank with previous kill	kill region copy region to kill ring kill through next occurrence of <i>char</i>	<pre>entity to kill character (delete, not kill) word line (to end of) sentence sexp</pre>
С-у М-у	С-ы М-ы М-z	backward DEL M-DEL M-O C-k C-x DEL M C-M-k
, ,	C-w M-w M-z <i>char</i>	forward C-d M-d C-k M-k C-M-k

Marking

mark entire buffer	mark function	mark sexp	mark page	mark paragraph	set mark arg words away	exchange point and mark	set mark here
C-x h	C-M-h	C-M-@	C-x C-p	M-h	M-0	C-x C-x	C-@ or C-SPC

Query Replace

enter recursive edit (C-M-c to exit)	exit query-replace	back up to the previous match	replace all remaining matches	skip to next without replacing	replace this one, don't move	replace this one, go on to next	Valid responses in query-replace mode are	using regular expressions	interactively replace a text string
C-r	RET	,		DEL	•	SPC	ode are	M-x query-replace-regexp	M -%

Multiple Windows

When two commands are shown, the second is for "other frame."

gelete all other windows split window, above and below c-x 2 delete this window split window, side by side scroll other window switch cursor to another window select buffer in other window c-x 4 b display buffer in other window find file read-only in other window c-x 4 f c-x 5 f find file read-only in other window c-x 4 f c-x 5 f find tag in other window c-x 4 c-o c-x 5 f c-x 5 d c-x 5 d c-x 5 d c-x 5 d
--

uppercase word lowercase word capitalize word uppercase region lowercase region	Case Change	set face	fill paragraph set fill column set prefix each line starts with	insert newline after point move rest of line vertically down delete blank lines around point join line with previous (with arg, next) delete all white space around point put exactly one space at point	indent current line (mode-dependent) indent region (mode-dependent) indent sexp (mode-dependent) indent region rigidly ary columns
M-u M-1 M-c C-x C-u C-x C-1		M-g	M-q C-x f	C-O C-X M-' M-V	TAB C-M-\ C-M-q C-x TAB

The Minibuffer

Type C-x ESC ESC to edit and repeat the last command that used the minibuffer. Type F10 to activate the menu bar using the minibuffer.

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Buffers

kill a buffer	list all buffers	select another buffer
C-x k	C-x C-b	C-x b

Transposing

transpose sexps	transpose lines	transpose words	transpose characters
C-M-t	C-x C-	M-t	C-t

Spelling Check

M-x ispell-buffer	check spelling of entire buffer
M-v ispell-region	check spelling of current word

Tags

replace M-,	continue last tags search or query-replace
M-x tags-query-replace	run query-replace on all the files
ble M-x tags-search	regexp search on all files in tags table
M-x visit-tags-table	specify a new tags file
С-и М	find next occurrence of tag
M	find a tag (a definition)

Shells

start a shell in window *shell*	filter region through a shell command	run a shell command on the region	execute a shell command
M-x shell	С-и М-	<u>M-</u>	M- !

Rectangles

expand previous word dynamically	add global abbrev add mode-local abbrev add global expansion for this abbrev add mode-local expansion for this abbrev explicitly expand abbrev	Abbrevs	copy rectangle to register kill rectangle yank rectangle open rectangle, shifting text right blank out rectangle prefix each line with a string
M-/	C-x a g C-x a i g C-x a i g C-x a i 1		

Regular Expressions

any single character except a newline zero or more repeats one or more repeats zero or one repeat any character in the set any character not in the set beginning of line end of line quote a special character c alternative ("or") grouping nth group beginning of buffer beginning of buffer	. (dot) * * (dot) [] [] ()
quote a special character c alternative (" α ")	<i>-</i>
grouping grouping	:
beginning of buffer	<u>`</u>
end of buffer	; <
word break not beginning or end of word	я б
beginning of word	<u> </u>
end of word	\(\)
any word-syntax character	\W
any non-word-syntax character	/W
character with syntax c	$\backslash sc$
character with syntax not c	$\backslash \mathbf{S}c$

Registers

jump to point saved in register	save value of point in register	insert register contents into buffer	save region in register
C-x r j	C-x r SPC	C-x r i	C-x r s

Info

run Info tutorial list Info commands quit Info search nodes for regexp	next node previous node move up select menu item by name select nth menu item by number (1-9) follow cross reference (return with 1) return to last node you saw return to directory node go to any node by name Other:	enter the Info documentation reader Moving within a node: scroll forward scroll reverse beginning of node Moving between nodes:
s- M-s 5	д рт н в в н ц б	C-h i SPC DEL . (dot)

Keyboard Macros

```
start defining a keyboard macro
                                                                  end keyboard macro definition
execute last-defined keyboard macro
insert Lisp definition in buffer
                   name last keyboard macro
                                             append to last keyboard macro
                      M-x name-last-kbd-macro
M-x insert-kbd-macro
                                                                    C-x )
                                                                                                                C-x (
                                             С-и С-х (
```

Commands Dealing with Emacs Lisp

read and eval Emacs Lisp file M-x load-file	re-execute last minibuffer command C-x ESC	read and eval minibuffer M-:	eval entire buffer M-x eval-current	eval region M-x eval-re	eval current defun C-M-x	M-x eval-rel M-x eval-rel M-x eval-current M- c-x ESC M-x load-fi
defun M-x ouffer M-x eval- al minibuffer ast minibuffer command	defun ouffer al minibuffer	defun ouffer	defun			C-X C-

Simple Customization

Here are some examples of binding global keys in Emacs Lisp.

```
An example of setting a variable in Emacs Lisp:
                                                                                        (global-set-key "\C-cg" 'goto-line)
(global-set-key "\C-x\C-k" 'kill-region)
                                                   (global-set-key "\M-#" 'query-replace-regexp)
```

Writing Commands

(setq backup-by-copying-when-linked t)

```
With ARG, put point on line ARG.
                                                                                  Negative counts from bottom." (interactive "P")
                                                                                                                                                                                                                                   An example:
                                                                                                                                                                                               (defun this-line-to-top-of-window (line)
                                                                                                                                                                                                                                                                                                                                                            (defun command-name (args)
                                                                                                                                                                 "Reposition line point is on to top of window.
                                                                                                                                                                                                                                                                                                 (interactive "template")
                                                                                                                                                                                                                                                                                                                                "documentation"
                                                       (recenter (if (null line)
(prefix-numeric-value line))))
```

The argument to interactive is a string specifying how to get the arguments when the function is called interactively. Type C-h f interactive for more information.

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