GNU Emacs Reference Card

(for version 20)

Starting Emacs

To enter GNU Emacs 20, 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

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.

remove help window

C-x 1

scroll help window

get mode-specific information	describe a function	show the function a key runs	apropos: show commands matching a string
C-h m	C-h f	C-h c	C-h a

Error Recovery

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

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

Motion

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

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>	entity to kill character (delete, not kill) word line (to end of) sentence sexp
С-у М-у	C-w M-w M-z	backward DEL M-DEL M-0 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	set mark here exchange point and mark
C-x h	C-M-h	C-M-@	C-x C-p	M-h	M-@	C-@ or C-SPC C-x C-x

Query Replace

using regular expressions

M-x query-replace-regexp

interactively replace a text string

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
C-r	RET	,	-	DEL	•	SPC	

Multiple Windows

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

•	grow window wider	shrink window narrower	grow window taller	find tag in other window	run Dired in other window	find file read-only in other window	find file in other window	display buffer in other window	select buffer in other window	switch cursor to another window	scroll other window	split window, side by side	delete this window	split window, above and below	delete all other windows
	C-x }	C-x {	C-x	C-x 4 .	C-x 4 d	C-x 4 r	C-x 4 f	C-x 4 C-o	C-x 4 b	C-x o	C-M-v	C-x 3	C-x 0	C-x 2	C-x 1
	Ÿ	<u>~</u>	,	C-x 5 .	C-x 5 d	C-x 5 r	C-x 5 f	C-x 5 C-o	C-x 5 b	C-x 5 o	[-v	ω	C-x 5 0	C-x 5 2	<u> </u>

Formatting

uppercase word	Case Change	set face	set prefix each line starts with	set fill column	fill paragraph	put exactly one space at point	delete all white space around point	join line with previous (with arg, next)	delete blank lines around point	move rest of line vertically down	insert newline after point	indent region rigidly arg columns	indent sexp (mode-dependent)	indent region (mode-dependent)	indent current line (mode-dependent)
M-n		M-8	C-x .	C-x f	M-q	M-SPC	M-/	M-^	C-x C-o	C-M-o	C-0	C-x TAB	C-M-q	C-M-/	TAB

uppercase word lowercase word capitalize word	M-u M-1
uppercase region	C-x C-u
lowercase region	C-x C-1

The Minibuffer

abort command	regexp search forward through history	regexp search backward through history	fetch later minibuffer input or default	fetch previous minibuffer input	show possible completions	complete and execute	complete up to one word	complete as much as possible	The following keys are defined in the minibuffer
C-g	⊠ - S	M-r	M-n	M-p	٠,	RET	SPC	TAB	buffer.

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-t	M-t	C-t

Spelling Check

check spelling of entire buffer	check spelling of all words in region	check spelling of current word
M-x ispell-buffer	M-x ispell-region	M-\$

Tags

place M-,	continue last tags search or query-replace
M-x tags-query-replace	run query-replace on all the files
e M-x tags-search	regexp search on all files in tags table
M-x visit-tags-table	specify a new tags file
C-u M	find next occurrence of tag
<u>N</u>	nnd a tag (a dennition)

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	C-u M-	M-	M-:

Rectangles

prefix each line with a string	blank out rectangle	open rectangle, shifting text right	yank rectangle	kill rectangle	copy rectangle to register
C-x r t	C-x r c	C-x r o	С-х г у	C-x r k	C-x r r

Abbrevs

expand previous word dynamically	explicitly expand abbrev	add mode-local expansion for this abbrev	add global expansion for this abbrev	add mode-local abbrev	add global abbrev
M-/	С-хае	C-xail	C-xaig	C-x a l	C-xag

Regular Expressions

any single character except a newline	a newline	. (dot)
zero or more repeats		*
one or more repeats		+
zero or one repeat		٠,
quote regular expression special character c	c	\c
alternative ("or")		=
grouping		⟨′ : ⟨⟩
same text as n th group		n
at word break		4
not at word break		\B
entity	match start	match end
line	•	€9
word	<u> </u>	▽
buffer	′,	~
class of characters	match these	match others
explicit set	[]	[]
word-syntax character	\w	/W/
character with syntax c	\sc	\Sc

International Character Sets

choose preferred coding system	show all coding systems	set coding system for next command	enable or disable input method	show all input methods	specify principal language M-x
M-x prefer-coding-system	M-x list-coding-systems	and C-x RET c	C-/	M-x list-input-methods	M-x set-language-environment

Info

run Info tutorial 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 find specified function or variable in Info Moving within a node: scroll forward scroll reverse beginning of node Moving between nodes:
м- s Ф	о Стнивиро	C-h i C-h C-i SPC DEL . (dot)

Registers

append to last keyboard macro	execute last-defined keyboard macro	end keyboard macro definition	start defining a keyboard macro	Keyboard Macros	save value of point in register jump to point saved in register	save region in register insert register contents into buffer
C-u C-x (C-x e	C-x)	C-x (C-x r SPC C-x r j	C-x r r

Commands Dealing with Emacs Lisp

insert Lisp definition in buffer

name last keyboard macro

M-x name-last-kbd-macro
M-x insert-kbd-macro

load from standard system directory	read and eval minibuffer	eval region	eval current defun	eval sexp before point
M-x load-library	M-:	M-x eval-region	C-M-x	C-x C-e

Simple Customization

(global-set-key "\M-#" 'query-replace-regexp)	$(global-set-key "\C-cg" 'goto-line)$	Making global key bindings in Emacs Lisp (examples):	customize variables and faces M-x customize

Writing Commands

(defun command-name (args)

"documentation" (interactive "template")

body)

```
An example:

(defun this-line-to-top-of-window (line)

"Reposition line point is on to top of window.

With ARG, put point on line ARG."

(interactive "P")

(recenter (if (null line)

0

(prefix-numeric-value line))))
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The interactive spec says how to read arguments interactively. Type C-h f interactive for more details.

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