GNU Emacs Reference Card

(for version 28)

Key Binding Notation

In the Emacs key binding notation, C-x is Ctrl+X; M-x is usually Alt+X; S-x is Shift+X; and C-M-x is Ctrl+Alt+X, etc.

Leaving Emacs

iconify Emacs (or suspend it in terminal)	C-z
exit Emacs permanently	C-x C-c

Files

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

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.

v	, , , ,
remove help window scroll help window	C-x 1 C-M-v
•	
apropos: show commands matchir	0
describe the function a key runs	C-h k
describe a function	C-h f
get mode-specific information	C-h m

Error Recovery

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

Incremental Search

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

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 matched.

Motion

entity to move over	backwa	$^{ m rd}$	forward
character	C-b		C-f
word	M-b		M-f
line	C-p		C-n
go to line beginning (or end)	C-a		С-е
sentence	M-a		M-e
paragraph	M-{		M-}
page	C-x [C-x]
sexp	C-M-b		C-M-f
function	C-M-a		C-M-e
go to buffer beginning (or end)	M-<		M->
scroll to next screen		C-v	
scroll to previous screen		M-v	
scroll left		C-x	<
scroll right		C-x	>
scroll current line to center, top, bott	om	C-1	
goto line		M-g	g
goto char		M-g	С
back to indentation		M-m	

Killing and Deleting

entity to kill	backward	forward
character (delete, not kill)	DEL	C-d
word	M-DEL	M-d
line (to end of)	M-0 C-k	C-k
sentence	C-x DEL	M-k
sexp	M C-M-k	C-M-k
kill region	C-w	ī
copy region to kill ring	M-w	ī
kill through next occurrence of $char$	M-z	char
yank back last thing killed	C-2	7
replace last yank with previous kill	м-у	7

Marking

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

Query Replace

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

Multiple Windows

When	two	command	s are	shown,	the	second	${\rm is}$	\mathbf{a}	$_{\rm similar}$	com
mand	for a	frame in	stead	of a wii	ndov	7				

delete all other windows	C-x 1	C-x	5	1
split window, above and below	C-x 2	C-x	5	2
delete this window	C-x 0	C-x	5	0
split window, side by side	C-:	х 3		
scroll other window	C-1	M−v		
switch cursor to another window	C-x o	C-x	5	0
select buffer in other window	C-x 4 b	C-x	5	b
display buffer in other window	C-x 4 C-c	C-x	5	C-0
find file in other window	C-x 4 f	C-x	5	f
find file read-only in other window	C-x 4 r	C-x	5	r
run Dired in other window	C-x 4 d	C-x	5	d
find tag in other window	C-x 4 .	C-x	5	
grow window taller	C-:	x ^		
shrink window narrower	C-:	x {		
grow window wider	C-:	x }		
T				

Formatting

indent region (mode-dependent) indent sexp (mode-dependent) indent region rigidly arg columns indent for comment 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 m-SPC fill paragraph set fill column to arg set prefix each line starts with C-M-O C-x TAB m-; insert newline after point C-c-x C-o move rest of line vertically down C-M-O C-x C-o move rest of line vertically down C-M-O C-x C-o move rest of line vertically down C-M-O M-C M-C-x C-o join line with previous (with arg, next) M-^ C-x C-o fill paragraph C-x f Set prefix each line starts with	indent current line (mode-dependent)	TAB
indent region rigidly arg columns indent for comment insert newline after point move rest of line vertically down delete blank lines around point column in method in method in method delete all white space around point put exactly one space at point fill paragraph set fill column to arg C-x TAB M-; C-o C-o M-o C-x C-o join line with previous (with arg, next) delete all white space around point put exactly one space at point M-SPC M-q C-x f	indent region (mode-dependent)	C-M-\
indent for comment insert newline after point commove rest of line vertically down delete blank lines around point commover com	indent sexp (mode-dependent)	C-M-q
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 fill paragraph set fill column to arg C-x f	indent region rigidly arg columns	C-x TAB
move rest of line vertically down delete blank lines around point color C-x C-o join line with previous (with arg, next) delete all white space around point put exactly one space at point fill paragraph set fill column to arg C-x f	indent for comment	M-;
delete blank lines around point C-x C-o join line with previous (with arg, next) M-^ delete all white space around point put exactly one space at point M-SPC fill paragraph M-q set fill column to arg C-x f	insert newline after point	C-o
join line with previous (with arg, next) delete all white space around point put exactly one space at point fill paragraph set fill column to arg M- C-x f	move rest of line vertically down	C-M-o
delete all white space around point M-\ put exactly one space at point M-SPC fill paragraph M-q set fill column to arg C-x f	delete blank lines around point	C-x C-o
put exactly one space at point M-SPC fill paragraph M-q set fill column to arg C-x f	join line with previous (with arg, next)	M-^
fill paragraph set fill column to arg M-q C-x f	delete all white space around point	M-\
set fill column to arg C-x f	put exactly one space at point	M-SPC
3	fill paragraph	M-q
set prefix each line starts with $$\tt C-x \>$.	set fill column to arg	C-x f
	set prefix each line starts with	C-x .

Case Change

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

The Minibuffer

The following keys are defined in the minibuffer.

complete as much as possible	TAB
complete up to one word	SPC
complete and execute	RET
show possible completions	?
fetch previous minibuffer input	M-p
fetch later minibuffer input or default	M-n
regexp search backward through history	M-r
regexp search forward through history	M-s
abort command	C-g

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

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Buffers

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

Transposing

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

Spelling Check

check spelling of current word	M-\$
check spelling of all words in region	M-x ispell-region
check spelling of entire buffer	M-x ispell-buffer
toggle on-the-fly spell checking	M-x flyspell-mode

Tags

find a tag (a definition)	M
specify a new tags file	-x visit-tags-table
regexp search on all files in tags table	M-x tags-search
run query-replace on all the files M-x	tags-query-replace
continue last tags search or query-replace	e M

Shells

execute a shell command	M-!
execute a shell command asynchronously	M-&
run a shell command on the region	M-
filter region through a shell command	C-u M-
start a shell in window *shell*	M-x shell

Rectangles

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

Abbrevs

add global abbrev	C-x a g
S	0
add mode-local abbrev	C-x a l
add global expansion for this abbrev	C-x a i g
add mode-local expansion for this abbrev	C-x a i l
explicitly expand abbrev	С-хае
expand previous word dynamically	M-/

Miscellaneous

numeric argument	C-u num
negative argument	M
quoted insert	C-a char

Regular Expressions

any single character except	a newline		(dot)
zero or more repeats		*	
one or more repeats		+	
zero or one repeat		?	
quote special characters		\	
quote regular expression spe	ecial character c	10	
alternative ("or")		ΔÍ	
grouping			\)
shy grouping			?:\)
explicit numbered grouping			?NUM: \)
same text as nth group		\r	
at word break		\b	
not at word break		\E	
		-	
entity	match start		tch end
line	^	\$	
word	\<	\>	
symbol	_<	_>	
buffer	\'	\'	
class of characters	match these	mat	tch others
explicit set	[]	[^ .]
word-syntax character	\w	\W	
character with syntax c	$\scalebox{1}{s}c$	\Sc	
character with category c	\c <i>c</i>	$\backslash \mathtt{C} c$	
_ 0			

International Character Sets

specify principal language	C-x RET 1
show all input methods	M-x list-input-methods
enable or disable input method	C-/
set coding system for next comma	and C-x RET c
show all coding systems	M-x list-coding-systems
choose preferred coding system	M-x prefer-coding-system

Info

enter the Info documentation reader	C-h i
find specified function or variable in Info	C-h S
Moving within a node:	
scroll forward	SPC
scroll reverse	DEL
beginning of node	b
Moving between nodes:	
next node	n
previous node	p
move up	u
select menu item by name	m
select n th menu item by number $(1-9)$	n
follow cross reference (return with 1)	f
return to last node you saw	1
return to directory node	d
go to top node of Info file	t
go to any node by name	g
Other:	
run Info tutorial	h
look up a subject in the indices	i
search nodes for regexp	s
quit Info	q

Registers

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

Keyboard Macros

start defining a keyboard macro	C-x (
end keyboard macro definition	C-x)
execute last-defined keyboard made	cro C-x e
append to last keyboard macro	C-u C-x (
name last keyboard macro	M-x name-last-kbd-macro
insert Lisp definition in buffer	M-x insert-kbd-macro

Commands Dealing with Emacs Lisp

eval sexp before point		С-х С-е
eval current defun		C-M-x
eval region	M-x	eval-region
read and eval minibuffer		M-:
load a Lisp library from load-path	M-x	load-library

Simple Customization

```
customize variables and faces M-x customize
Making global key bindings in Emacs Lisp (example):
(global-set-key (kbd "C-c g") 'search-forward)
(global-set-key (kbd "M-#") 'query-replace-regexp)
```

Writing Commands

The interactive spec says how to read arguments interactively. Type C-h f interactive RET for more details.

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