GNU Emacs Reference Card

(for version 30)

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.

, , , , , , , , , , , , , , , , , , ,	
remove help window	C-x 1
scroll help window	C-M-v
apropos: show commands matching a string	C-h a
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 command 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 character word line go to line beginning (or end) sentence paragraph page sexp function	C-b M-b C-p C-a M-a M-{ C-x [C-M-b C-M-a		forward C-f M-f C-n C-e M-e M-} C-x] C-M-f C-M-e
go to buffer beginning (or end) scroll to next screen scroll to previous screen scroll left scroll right scroll current line to center, top, bott goto line goto char back to indentation	M-<	C-v M-v C-x C-x C-1 M-g M-g	> g

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	С-у	•
replace last yank with previous kill	М-у	•

Marking

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

Query Replace

M-%
M-x query-replace-regex
node are
SPC or y
,
DEL or n
!
^
RET
) C-r

Multiple Windows

When	two	comma	nds a	re	shown,	the	second	is	a	similar	com
mand	for a	frame	instea	ad a	of a win	dow	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-x	3		
scroll other window	C-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-o	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	}		
				

Formatting

indent current line (mode-dependent)	TAB
indent region (mode-dependent)	C-M-\
indent sexp (mode-dependent)	C-M-q
indent region rigidly arg columns	C-x TAB
indent for comment	M-;
insert newline after point	C-o
move rest of line vertically down	C-M-o
delete blank lines around point	C-x C-o
join line with previous (with arg, next)	M-^
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
set prefix each line starts with	C-x .

Case Change

uppercase word	M-u
lowercase word	M-l
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	M-	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

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
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	$\backslash c$	
alternative ("or")		ΔÍ	
grouping		\(\)
shy grouping			?:\)
explicit numbered grouping			?NUM: \)
same text as nth group		$\backslash n$	
at word break		\b	
not at word break		\B	
	4-144	•	
entity	match start		ch end
line		\$	
word	\<	\>	
symbol	_<	_>	
buffer	\'	\'	
class of characters	match these	mat	ch others
explicit set	[]	[^ .]
word-syntax character	\w	\W	
character with syntax c	$\scalebox{1}{sc}$	$\slash sc$	
character with category c	\c	$\backslash \mathtt{C} c$	

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	Ъ
Moving between nodes:	
next node	n
previous node	p
move \mathbf{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 mad	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		C-x C-e
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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