GNU Emacs Reference Card

(for version 21)

Starting Emacs

To enter GNU Emacs 21, just type its name: emacs To read in a file to edit, see Files, below.

Leaving Emacs

suspend Emacs (or iconify it under X)	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
version control checkin/checkout	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	
show the function a key runs	C-h c	
describe a function	C-h f	
get mode-specific information	C-h m	

Error Recovery

abort partially typed or executing comma	nd	C-g
recover a file lost by a system crash	M-x	recover-file
undo an unwanted change		C-x u 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 later 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 done.

Motion

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

Killing and Deleting

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

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 using regular expressions	M-% M-x query-replace-regexp
Valid responses in query-replace mo	
replace this one, go on to next	SPC
replace this one, don't move	,
skip to next without replacing	DEL
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

٦	When two commands are shown, the second	ond is	s fo	or "otl	her fr	ar	ne."
(delete all other windows			C-x 1	L		
S	split window, above and below	C-x	2		C-x	5	2
(delete this window	C-x	0		C-x	5	0
S	split window, side by side			C-x 3	3		
5	scroll other window			C-M-v	J		
S	switch cursor to another window	C-x	0		C-x	5	0
5	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-o
f	and file in other window	C-x	4	f	C-x	5	f
f	and file read-only in other window	C-x	4	r	C-x	5	r
1	run Dired in other window	C-x	4	d	C-x	5	d
f	and tag in other window	C-x	4		C-x	5	
8	grow window taller			C-x ´	•		
5	shrink window narrower			C-x	{		
8	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
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	C-x f
set prefix each line starts with	C-x .
set face	M-g

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	М-р
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 the menu bar using

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Buffers

select another buffer	C-x	b
list all buffers	C-x	С-ь
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

Tags

find a tag (a definition)	M
find next occurrence of tag	C-u 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
continue last tags search or query-repla	ce M-,

Shells

execute a shell command	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-/

Regular Expressions

any single character except a	newline	. (dot)
zero or more repeats		*
one or more repeats		+
zero or one repeat		?
quote regular expression spec	ial character c	$\backslash c$
alternative ("or")		\ I
grouping		\(\)
same text as nth group		$\setminus n$
at word break		\b
not at word break		\ B
entity	match start	match end
line	^	\$
word	\<	\>
buffer	\'	\'
class of characters	match these	match others
explicit set	[]	[^]
word-syntax character	\w	\W
character with syntax c	\sc	\Sc

International Character Sets

specify principal language M-	x set-language-environment
show all input methods	M-x list-input-methods
enable or disable input method	C-\
set coding system for next comman	nd 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 find specified function or variable in Info	C-h i C-h C-i
Moving within a node:	
scroll forward scroll reverse beginning of node	SPC DEL . (dot)
Moving between nodes:	
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	n p u m f d g
Other:	J
run Info tutorial quit Info search nodes for regexp	h q M-s

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 macro
    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 from standard system directory	M-x	load-library

Simple Customization

```
customize variables and faces M-x customize
Making global key bindings in Emacs Lisp (examples):

(global-set-key "\C-cg" 'goto-line)
(global-set-key "\M-#" 'query-replace-regexp)
```

Writing Commands (defun command-name (args)

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

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v2.2 for GNU Emacs version 21, 1997
designed by Stephen Gildea
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