GNU Emacs Reference Card

(for version 27)

Starting Emacs

To enter GNU Emacs 27, just type its name: emacs

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
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 scroll help window	C-x 1 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 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 matched.

Motion

entity to move over character word line go to line beginning (or end) sentence paragraph page sexp function go to buffer beginning (or end)	backwa C-b M-b C-p C-a M-a M-{ C-x [C-M-b C-M-a M-<		forward C-f M-f C-n C-e M-e M-} C-x] C-M-f C-M-e M->
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	com	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	C-0 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-regex
Valid responses in query-replace n	node are
replace this one, go on to next replace this one, don't move skip to next without replacing replace all remaining matches back up to the previous match	SPC or y , DEL or n !
<pre>exit query-replace enter recursive edit (C-M-c to exit</pre>	RET C-r

Multiple Windows

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-M-V scroll other window C-M-V switch cursor to another window C-x 0 C-x 5 0 select buffer in other window C-x 4 b C-x 5 0 display buffer in other window C-x 4 c-o C-x 5 0 find file in other window C-x 4 f C-x 5 f 0 find file read-only in other window C-x 4 f C-x 5 f 0 run Dired in other window C-x 4 d C-x 5 d 0 find tag in other window C-x 4 d C-x 5 d 0 grow window taller C-x 6 c-x 7 0 0 shrink window marrower C-x 6 c-x 7 0 0 grow window wider C-x 8 0 0	mand for a frame instead of a window					
delete this window C-x 0 C-x 5 0 split window, side by side C-x 3 3 0 scroll other window C-M-V 0 C-M-V 0 C-M-V switch cursor to another window C-x 4 0 C-x 5 0 select buffer in other window C-x 4 0 C-x 5 0 display buffer in other window C-x 4 C-x 5 0 find file in other window C-x 4 c-x 5 7 find file read-only in other window C-x 4 c-x 5 7 run Dired in other window C-x 4 c-x 5 6 find tag in other window C-x 4 c-x 5 . grow window taller C-x 6 c-x 6 shrink window narrower C-x 6 c-x 6	delete all other windows	C-x 1		C-x	5	1
split window, side by side scroll other window switch cursor to another window select buffer in other window display buffer in other window find file in other window c-x 4 b c-x 5 b condition of the condition	split window, above and below	C-x 2		C-x	5	2
scroll other window C-M-v switch cursor to another window C-x o C-x 5 o select buffer in other window C-x 4 b C-x 5 o display buffer in other window C-x 4 c-o C-x 5 c- 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 d grow window taller C-x 7 c-x 5 c- shrink window narrower C-x 6 c	delete this window	C-x 0		C-x	5	0
switch cursor to another window select buffer in other window display 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- 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 c-x 5 . grow window taller shrink window narrower C-x 6	split window, side by side		C-x	3		
select buffer in other window display buffer in other window C-x 4 b C-x 5 b display buffer in other window C-x 4 c-0 C-x 5 c- 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 C-x 5 c grow window taller Shrink window narrower C-x 6 c-x 5 c	scroll other window		C-M-	·v		
display buffer in other window $C-x + 4 + C-o + C-x + 5 + C-f$ find file in other window $C-x + 4 + C-x + 5 + C-x +$	switch cursor to another window	C-x o		C-x	5	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 C-x 5 d grow window taller C-x 7 c C-x 5 c shrink window narrower C-x 5 c C-x 6 c	select buffer in other window	C-x 4	b	C-x	5	b
find file read-only in other window run Dired in other window C-x 4 r C-x 5 r find tag 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 6 c-x $\left\{ \right\}$	display buffer in other window	C-x 4	C-o	C-x	5	C-
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 $C-x \ 4 \ .$ $C-x \ 5 \ .$ shrink window narrower $C-x \ 4 \ .$ $C-x \ 5 \ .$	find file in other window	C-x 4	f	C-x	5	f
find tag in other window $C-x \ 4$. $C-x \ 5$. grow window taller $C-x \ 6$. $C-x \ 6$	find file read-only in other window	C-x 4	r	C-x	5	r
grow window taller $C-x$ shrink window narrower $C-x$ {	run Dired in other window	C-x 4	d	C-x	5	d
shrink window narrower C-x {	find tag in other window	C-x 4		C-x	5	
	grow window taller		C-x	^		
grow window wider C-x }	shrink window narrower		C-x	{		
	grow window wider		C-x	}		

When two commands are shown, the second is a similar com-

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 .
set face	M-o

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 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
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-repl	ace M-,

Shells

:
M-
shell

Rectangles

C-x r r
C-x r k
С-х г у
C-x r o
C-x r c
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	${\tt C-u}$ num
negative argument	M
quoted insert	C-q $char$

Regular Expressions

. 1 1	1.	(1.1)
any single character except	a newline	\cdot (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")		\
grouping		\(\)
shy grouping		\(:? \)
explicit numbered grouping		\(:NUM \)
same text as n th group		$\setminus n$
at word break		\ b
not at word break		\ B
entity	match start	match end
line	^	\$
word	\<	\>
symbol	_<	_>
buffer	\'	\',
class of characters	match these	match others
explicit set	[]	[^]
word-syntax character	\w	\W
character with syntax c	\slash s c	\Sc

International Character Sets

character with category $c \setminus cc$

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 command C-x RET	
show all coding systems	M-x list-coding-systems
choose preferred coding system	M-x prefer-coding-system

 \Cc

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	р	
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 made	cro	C-x	е	
append to last keyboard macro		C-u	C-x	(
name last keyboard macro	M-x nar	ne-last	-kbd	-macr
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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