GNU Emacs Reference Card

(for version 29)

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.

, , , ,
C-x 1
C-M-v
ng a string C-h a
C-h k
C-h f
C-h m
7

Error Recovery

abort partially typed or executing com	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	\mathbf{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, bot	tom	C-1		
goto line		M-g	g	
goto char		M-g	С	
back to indentation		M-m		

Killing and Deleting

entity to kill character (delete, not kill) word line (to end of) sentence sexp	backward DEL M-DEL M-0 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	С-w М-w М-z С-у М-у	char

Marking

set mark here	C-@ or C-SP
exchange point and mark	C-x C-x
set mark arg words away	M-@
mark paragraph	M-h
mark page	C-x C-p
$\max \mathbf{sexp}$	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 m	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 commands are shown, the second is a similar command for a frame instead of a window.

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-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.

^{© 2024} Free Software Foundation, Inc. Permissions on back.

GNU Emacs Reference Card

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-regio	'n
check spelling of entire buffer	M-x ispell-buffe	r
toggle on-the-fly spell checking	M-x flyspell-mod	le

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	M-x tags-query-replace
continue last tags search or query-repl	lace 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
add mode-local abbrev	C-x a 1
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	
auoted insert	C-a	char

Regular Expressions

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	$\setminus c$
alternative ("or")		\1
grouping		\(\)
shy grouping		\(?: \)
explicit numbered grouping		\(?NUM: \)
same text as n th group		$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
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	$\scalebox{1}{sc}$	\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 comm	and C-x RET c
show all coding systems	M-x list-coding-systems
choose preferred coding system	M-x prefer-coding-system

 \Cc

Info

C-h i	
C-h S	
SPC	
DEL	
b	
n	
p	
u	
m	
n	
f	
1	
d	
t	
g	
h	
i	
s	
q	
	C-h S SPC DEL b n p u m n f t d t g

Registers

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

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

ϵ	eval sexp before point		С-х С-е
ϵ	eval current defun		C-M-x
ϵ	eval region	M-x	eval-region
r	ead and eval minibuffer		M-:
1	oad 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.

Copyright © 2024 Free Software Foundation, Inc. For GNU Emacs version 29 Designed by Stephen Gildea

Released under the terms of the GNU General Public License version 3 or later.

For more Emacs documentation, and the TEX source for this card, see the Emacs distribution, or https://www.gnu.org/software/emacs