GNU Emacs Reference Card

(for version 22)

Starting Emacs

To enter GNU Emacs 22, just type its name: emacs

Leaving Emacs

suspend Emacs (or iconify it under X)	C-z
exit Emacs permanently	C-x C-c

Files

save a file back to disksave all filesinsert contents of another file into this bufferreplace this file with the file you really wantwrite buffer to a specified file	C-x C-x C-x C-x C-x C-x C-x	s i C-v C-w
---	---	----------------------

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

Incremental Search

search forward	<mark>C-s</mark>
search backward	<mark>C-r</mark>
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	<mark>C-g</mark>

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.

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Motion

entity to move over character word line go to line beginning (or end) sentence paragraph	backwa C-b M-b C-p C-a M-a M-f	ard	forward C-f M-f C-n C-e M-e M-P
page sexp function go to buffer beginning (or end)	M-1 C-x [C-M-b C-M-a M-<		M-J 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 of screen		C-v M-v C-x C-x C-u	<

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 <i>char</i> yank back last thing killed replace last yank with previous kill	<mark>С-</mark> w М-w М-z С-у М-у	char

Marking

set mark here exchange point and mark	C-@ or <mark>C-SPC</mark> C-x C-x
set mark arg words away	M-@
mark paragraph	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

interactively replace a text string	M-%
using regular expressions M-x	query-replace-regexp
Valid responses in query-replace mode	e are
replace this one, go on to next	SPC
replace this one, don't move	3
skip to next without replacing	DEL
replace all remaining matches	!
back up to the previous match	^
exit query-replace	RET
enter recursive edit $(C-M-c \text{ to exit})$	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	<mark>C-x 2</mark> 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	<mark>С-хо</mark> С-х5о
select buffer in other window	C-x4b C-x5b
display buffer in other window	C-x 4 C-o C-x 5 C-o
find file in other window	C-x 4 f C-x 5 f
find file read-only in other window	C-x4r C-x5r
run Dired in other window	C-x4d C-x5d
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
insert newline after point	C-o
move rest of line vertically down	C-M-o
delete blank lines around point	С-х С-о
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-o
Case Change	

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-l

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 the menu bar using the minibuffer.

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Buffers

select another buffer	<mark>C-x b</mark>
list all buffers	С-х 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)	М
find next occurrence of tag	С-и М
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-replace 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	<mark>C-x r k</mark>
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	C-x a e
expand previous word dynamically	M-/

Regular Expressions

any single character except a	a newline	. (dot)
zero or more repeats		*
one or more repeats		+
zero or one repeat		?
quote regular expression spe	cial character c	$\backslash c$
alternative ("or")		M
grouping		\(\)
same text as n th group		n
at word break		∖b
not at word break		∖в
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 \boldsymbol{c}	\sc	\Sc

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 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 Moving within a node:	C-h i C-h S
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 <i>n</i> th menu item by number (1–9) follow cross reference (return with 1) return to last node you saw return to directory node go to top node of Info file go to any node by name	n p u m f 1 d t g
Other:	
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 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 \mathbf{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 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-replac	e-reg	gexp)

Writing Commands

```
(defun command-name (args)
  "documentation" (interactive "template")
 body)
An example:
(defun this-line-to-top-of-window (line)
  "Reposition line point is on to top of window.
With ARG, put point on line ARG."
  (interactive "P")
  (recenter (if (null line)
                 0
               (prefix-numeric-value line))))
The interactive spec says how to read arguments interac-
tively. Type C-h f interactive for more details.
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