GNU Emacs Reference Card

(for version 24)

Starting Emacs

To enter GNU Emacs 24, 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	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	mand 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.

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Motion

entity to move over character	backwa C-b	ard	forward C-f
word	M-b		M−f
line	С-р		C-n
go to line beginning (or end)	C-a		C-e
sentence	M-a		M-e
paragraph	M-{		M-}
page	C-x [C-x]
sexp	C-M-b		C-M-f
function	C-M-a		С-М-е
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, bo	ttom	C-1	
goto line		M-g	g
goto char		M-g	c
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 <i>char</i> 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 exchange point and mark	C-@ or C-SPC C-x C-x
set mark <i>arg</i> words away mark paragraph	M-@ 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 n	node are
replace this one, go on to next replace this one, don't move	SPC or y
\mathbf{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) C-r

Multiple Windows

When two commands are shown, the second is a similar command for a frame instead of a window.

mana for a name motoda of a winde	
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	С-хо 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-x4f C-x5f
find file read-only in other window	C-x4r C-x5r
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	С-М-о
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 to arg	C-x f
set prefix each line starts with	C-x .
set face	М-о
~ ~	

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 complete up to one word	TAB 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 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)	М
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-replace 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	С-хгу
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	٤
add mode-local expansion for this abbrev	C-x	a	i]
explicitly expand abbrev	C-x	a	е	
expand previous word dynamically	M-/			

Miscellaneous

numeric argument	C-u num
negative argument	M
quoted insert	C-q char

Regular Expressions

any single character except	a newline	. (dot)
zero or more repeats	a newinte	*
one or more repeats		+
•		
zero or one repeat		?
quote special characters		N .
quote regular expression sp	ecial character c	
alternative ("or")		NI
grouping		\(\)
shy grouping		\(:? \)
explicit numbered grouping		\(:NUM \)
same text as n th group	·	n
at word break		\b
not at word break		\B
		-
entity	match start	match end
line	2	\$
word	\<	\>
symbol	_<	_>
buffer	\ '	\'
class of characters	match these	match others
explicit set	[]	[^]
word-syntax character	\w	\W
character with syntax c	\sc	\Sc
character with category c	\cc	\Cc
character with category c	100	100

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

g 1

enter the Info documentation reader find specified function or variable in Info	C-h i 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 up	u
select menu item by name	m
select <i>n</i> 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 ma	cro C-x e
append to last keyboard macro	С-и С-х (
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 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	o (example):
(global-set-key (kbd "C-c g") 'search (global-set-key (kbd "M-#") 'query-re	

Writing Commands

<pre>(defun command-name (args) "documentation" (interactive "template") body)</pre>
An example:
<pre>(defun this-line-to-top-of-window (line) "Reposition current line to top of window. With prefix argument LINE, put point on LINE." (interactive "P") (recenter (if (null line) 0</pre>
<pre>(prefix-numeric-value line))))</pre>
The interactive spec says how to read arguments interactively. Type C-h f interactive RET for more details.
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