GNU Emacs Reference Card

(for version 23)

Starting Emacs

To enter GNU Emacs 23, 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 Emacssave 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-f C-x C-s C-x s C-x i C-x C-v C-x C-v
write buffer to a specified file toggle read-only status of buffer	

Getting Help

The help system is simple. Type ${\tt C-h}$ (or F1) and follow the directions. If you are a first-time user, type ${\tt C-h}$ 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 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.

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Motion

entity to move over character	backwa C-b	ard	forward C-f
word	С-Б М-Ъ		M-f
line	C-p		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	С-М-ь		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 of screen		C-u	C-1

Killing and Deleting

entity to kill	backwa	\mathbf{rd}	forward
character (delete, not kill)	DEL		C-d
word	M-DEL		M-d
line (to end of)	M-O C-k		C-k
sentence	C-x DEL		M-k
sexp	M C-M	-k	C-M-k
kill region		C-w	
copy region to kill ring		M-w	
kill through next occurrence of $char$		M-z	char
yank back last thing killed		C-y	
replace last yank with previous kill		М-у	

Marking

set mark here exchange point and mark	C-@ or C-SPC 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 using regular expressions	M-% M-x query-replace-regexp
Valid responses in query-replace m	ode are
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

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

mand for a manie misteau of a window	•	
delete all other windows	C-x 1 C-x	51
split window, above and below	C-x 2 C-x	52
delete this window	C-x 0 C-x	50
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 o
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
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-dependen indent region (mode-dependent)	t) TAB 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	С-М-о
delete blank lines around point	C-x C-o
join line with previous (with arg, ne	xt) 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-l

The Minibuffer

The following keys are defined in the minibuffer.

·······	T A D
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.

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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

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 run query-replace on all the files continue last tags search or query-rep	M-x tags-query-replace

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	С-х г у
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	t a newline	. (dot)
zero or more repeats		*
one or more repeats		+
zero or one repeat		?
quote regular expression sp	pecial character c	$\backslash c$
alternative ("or")		M
grouping		(\ldots)
same text as n th group		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	1	\ G .
5	\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 comm	and C-x RET c	
show all coding systems	w all coding systems M-x list-coding-systems	
choose preferred coding system	M-x prefer-coding-system	

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	. (dot)
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 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 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 (example):		
(global-set-key (kbd "C-c g") 'searc	h-forward)	
(global-set-key (kbd "M-#") 'query-r	eplace-regexp)	

Writing Commands

```
(defun command-name (args)
  "documentation" (interactive "template")
 body)
An example:
(defun this-line-to-top-of-window (line)
  "Reposition current line 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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                  designed by Stephen Gildea
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