# **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**

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 comm	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 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	backward	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	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	backwar	d 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 ${f region}$ copy region to kill ring kill through next occurrence of ${\it char}$	l	C-w M-w M-z $char$
yank back last thing killed replace last yank with previous kill		С-у И-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 <b>page</b>	C-x C-p
$\max k $ <b>sexp</b>	C-M-@
mark function	C-M-h
mark entire <b>buffer</b>	C-x h

# **Query Replace**

interactively replace a text string using regular expressions	M-x	M-% query-replace-regexp
Valid responses in query-replace n	node	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	$\operatorname{second}$	is	a	$\operatorname{similar}$	com
mand	for a	frame inst	ead	of a wir	dow	7				

delete all other windows split window, above and below delete this window	C-x 1 C-x 2 C-x 0		C-x C-x	5	2
split window, side by side		C-x	3		
scroll other window		C-M-	·v		
switch cursor to another window select buffer in other window display buffer in other window find file in other window find file read-only in other window run Dired in other window find tag in other window grow window taller shrink window narrower grow window wider	C-x o C-x 4 C-x 4 C-x 4 C-x 4 C-x 4 C-x 4	b C-o f r d	C-x C-x C-x C-x	5 5 5 5 5	b C-c f r d
grow window wider		O A	,		

# **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	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	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.

# **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-region
check spelling of entire buffer	M-x ispell-buffer

## 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-!
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 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-х а е
expand previous word dynamically	M-/

## **Regular Expressions**

any single character except	a newline	. (dot)
zero or more repeats		*
one or more repeats		+
zero or one repeat		?
quote regular expression sp	ecial character $c$	$\backslash c$
alternative ("or")		\I
grouping		\( \)
same text as $n$ th group		$\backslash n$
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	$\sc$	\S <i>c</i>

#### **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	nd C-x RET c
show all coding systems	M-x list-coding-systems
choose preferred coding system	${\tt M-x}$ 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 scroll reverse beginning of node	SPC DEL . (dot)
Moving between nodes:	
next node previous node move up select menu item by name select nth 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 t d t
Other:	
run Info tutorial look up a subject in the indices search nodes for regexp quit Info	h i s
quit into	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 macr	ro		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	1	x-N	insert	-kbd	-macr

#### Commands Dealing with Emacs Lisp

eval s	sexp before point		C-x C-e
eval e	current <b>defun</b>		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") 'search-forward)
(global-set-key (kbd "M-#") 'query-replace-regexp)
```

# Writing Commands

(defun command-name (args)

"documentation" (interactive "template")

The interactive spec says how to read arguments interactively. Type C-h f interactive for more details.

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