## **GNU Emacs Reference Card**

(for version 21)

# **Starting Emacs**

To enter GNU Emacs 21, just type its name: emacs To read in a file to edit, see Files, below.

### **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
version control checkin/checkout	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
show the function a key runs	C-h c
describe a function	C-h f
get mode-specific information	C-h m

# **Error Recovery**

abort partially typed or executing comma	and	C-g
recover a file lost by a system crash	M-x	recover-file
undo an unwanted change		C-x u 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 done.

#### Motion

entity to move over character word line go to line beginning (or end) sentence paragraph page sexp function go to buffer beginning (or end)	backwa C-b M-b C-p C-a M-a M-{ C-x [ C-M-b C-M-a M-<	ard	forward C-f M-f C-n C-e M-e M-} C-x ] C-M-f C-M-e
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-O 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-SPC
exchange point and mark	C-x C-x
set mark $arg$ <b>words</b> away	M-@
mark <b>paragraph</b>	M-h
mark <b>page</b>	C-x C-p
mark <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		M <b>-%</b>
using regular expressions	M-x	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 se	econd is for "other fra	me."
delete all other windows	C-x 1	
split window, above and below delete this window	C-x 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	C-x o C-x 5 C-x 4 b C-x 5 C-x 4 C-o C-x 5 C-x 4 f C-x 5 C-x 4 r C-x 5 C-x 4 d C-x 5 C-x 4 . C-x 5	b C-o f r d
grow window taller shrink window narrower grow window wider	C-x ^ C-x { C-x }	

### **Formatting**

indent current line (mode-dependent) indent region (mode-dependent) indent sexp (mode-dependent) indent region rigidly arg columns	TAB C-M-\ C-M-q C-x TAB
insert newline after point move rest of line vertically down delete blank lines around point join line with previous (with arg, next) delete all white space around point put exactly one space at point	C-o C-M-o C-x C-o M-^ M-\ M-SPC
fill paragraph set fill column set prefix each line starts with set face	M-q C-x f C-x . M-g

# 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	TAE
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	C−x b
list all buffers	C-x C-b
kill a buffer	C−x k

### Transposing

transpose <b>characters</b>	C-t
transpose <b>words</b>	M-t
transpose <b>lines</b>	C-x C-t
transpose <b>sexps</b>	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)	M
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	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-xrt

#### Abbrevs

add global abbrev add mode-local abbrev add global expansion for this abbrev	C-x a g C-x a l C-x a i g
add mode-local expansion for this abbrev explicitly expand abbrev	C-xail C-xae
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 spe	ecial character $c$	$\setminus c$
alternative ("or")		M
grouping		\( \)
same text as $n$ th group		$\setminus n$
at word break		<b>\</b> b
not at word break		<b>\</b> B
entity	match start	match end
line	^	\$
word	\<	<b>\&gt;</b>
buffer	\'	\',
class of characters	match these	match others
explicit set	[ ]	[^ ]
word-syntax character	\w	\W
character with syntax $c$	$\sc$	$\Sc$

#### **International Character Sets**

specify principal language	M-x set-language-environment
show all input methods	M-x list-input-methods
enable or disable input metho	d <b>C-</b> \
set coding system for next cor	nmand C-x RET c
show all coding systems	M-x list-coding-systems
choose preferred coding syster	n M-x prefer-coding-system

#### Info

enter the Info documentation reader find specified function or variable in Info	C-h i C-h C-i
Moving within a node:	
scroll forward scroll reverse beginning of node	$ ext{SPC} \  ext{DEL} \  ext{.} \ \ ( ext{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 any node by name	n p u m f 1 d
Other:	
run Info <b>tutorial</b> <b>quit</b> 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 jump to point saved in register	C-x r SPC 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-xe
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 <b>sexp</b> before point	C-x C-e
eval current <b>defun</b>	C-M-x
eval <b>region</b>	M-x eval-region
read and eval minibuffer	M-:
load from standard system directory	M-x load-librarv

### 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-replace-regexp)
```

### Writing Commands

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

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