## **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

<b>read</b> a file into Emacs	C-x C-f
<b>save</b> a file back to disk	C-x C-s
save <b>all</b> files	C-x s
<b>insert</b> 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 C-M-v	-
apropos: show commands matching a string	C-h a	a
show the function a key runs	C-h d	С
describe a function	C-h i	f
get mode-specific information	C-h r	n

#### Error Recovery

abort partially typed or executing comman	ıd	C-g
<b>recover</b> 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.

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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	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	C-M-e
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 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 <b>region</b> copy region to kill ring kill through next occurrence of <i>char</i> yank back last thing killed replace last yank with previous kill	C-w M-w M-z C-y M-y	char

# Marking

set mark here	C-Q or $C-SPC$
exchange point and mark	C-x C-x
set mark arg words away	M-@
mark <b>paragraph</b>	M-h
mark page	С-х С-р
mark <b>sexp</b> mark <b>function</b>	C-M-@ C-M-h
mark entire <b>buffer</b>	C-x h

# Query Replace

interactively replace a text string	M-%
using regular expressions	M-x query-replace-regexp
Valid responses in query-replace mo	de 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	BET
enter recursive edit (C-M-c to exit)	C-r

### Multiple Windows

When two commands are shown, the second is for "other frame." delete all other windows C-x 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 С-х З 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 С-х 4 С-о С-х 5 С-о 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 . C−x ^ grow window taller shrink window narrower C-x { grow window wider C-x }

#### Formatting

indent current <b>line</b> (mode-dependent)	TAB
indent <b>region</b> (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	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	C-x f
set prefix each line starts with	C-x .
set face	M-g

#### Case Change

uppercase word	M-u
lowercase word capitalize word	M-1 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	М-р
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 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 characters	C-t
transpose words	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)	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-repla	ace 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 <b>*shell*</b>	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	C-x a e
expand previous word dynamically	M-/

## **Regular Expressions**

any single character except a ne	ewline	. (dot)
zero or more repeats		*
one or more repeats		+
zero or one repeat		?
quote regular expression special	l character $c$	$\backslash c$
alternative ("or")		λI
grouping		\( \)
same text as $n$ th group		n
at word break		∖b
not at word break		∖B
entity	match start	match end
line	^	\$
word	\<	\>
buffer	\ <b>`</b>	\'
class of characters	match these	match others
explicit set	[ ]	[^ ]
word-syntax character	\w	\W
character with syntax $c$	$\sc c$	$\Sc$

# International Character Sets

specify principal language M	I-x set-language-environment
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

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	SPC DEL . (dot)
Moving between nodes:	
next node	n
previous node	р
move <b>up</b>	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 any node by name	g
Other:	
run Info <b>tutorial</b>	h
quit Info	q
search nodes for regexp	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

<b>start</b> defining a keyboard macro	C-x (
end keyboard macro definition	C-x )
<b>execute</b> last-defined keyboard macro	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 <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-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-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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