### **GNU Emacs Reference Card**

(for version 19)

#### **Starting Emacs**

To enter GNU Emacs 19, 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 search backward regular expression search reverse regular expression search	C-s C-r C-M-s C-M-r
select previous search string select next later search string	M-p 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	backwa	$\operatorname{rd}$	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		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	backward	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 <b>region</b>	C-w	,
copy region to kill ring	M-M	•
kill through next occurrence of $\operatorname{char}$	M-z	char
yank back last thing killed	С-у	•
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	C-x C-p
$\max \mathbf{sexp}$	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 skip to next without replacing replace all remaining matches back up to the previous match	SPC , DEL !
exit query-replace enter recursive edit (C-M-c to exit	RET C-r

# Multiple Windows

second is for "o	other frame."
C-x	1
C-x 2 C-x 0	
C-x	3
C-M	-v
C-x o	C-x 5 o
C-x 4 b	C-x 5 b
C-x 4 C-o	C-x 5 C-o
C-x 4 f	C-x 5 f
C-x 4 r	C-x 5 r
C-x 4 d	C-x 5 d
C-x 4 .	C-x 5 .
C-x	^
C-x	{
C-x	}
	C-x 2 C-x 0  C-x 0  C-x 0  C-x 0  C-x 4 b  C-x 4 C-0  C-x 4 f  C-x 4 r  C-x 4 d  C-x 4 d  C-x 4 d  C-x 7 d

# **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	M-q C-x f C-x .
set face	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	TAB
complete up to one word	SPC
complete and execute	RET
show possible completions	?
fetch previous minibuffer input	М-р
fetch next later minibuffer input	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 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)	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	M-x tags-query-replace
continue last tags search or query-repl	lace 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-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 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	$\cdot$ (dot)
zero or more repeats	*
one or more repeats	+
zero or one repeat	?
any character in the set	[ ]
any character not in the set	[^ ]
beginning of line	^
end of line	\$
quote a special character $c$	$\backslash c$
alternative ("or")	\ I
grouping	\( \)
nth group	$\setminus n$
beginning of buffer	\'
end of buffer	\',
word break	\b
not beginning or end of word	\B
beginning of word	\<
end of word	\>
any word-syntax character	\w
any non-word-syntax character	\W
character with syntax $c$	$\slash$ s $c$
character with syntax not $c$	$\Sc$

# 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	i

#### Info

C-h i
SPC DEL . (dot)
. (431)
n p u m n f l d
h ? q M-s

#### **Keyboard Macros**

```
start defining a keyboard macroC-x (end keyboard macro definitionC-x )execute last-defined keyboard macroC-x eappend to last keyboard macroC-u C-x (name last keyboard macroM-x name-last-kbd-macroinsert Lisp definition in bufferM-x insert-kbd-macro
```

#### Commands Dealing with Emacs Lisp

```
eval sexp before point
                                            C-x C-e
eval current defun
                                            C-M-x
eval region
                                        M-x eval-region
eval entire buffer
                                  M-x eval-current-buffer
read and eval minibuffer
                                            M-:
                                            C-x ESC ESC
re-execute last minibuffer command
read and eval Emacs Lisp file
                                        M-x load-file
load from standard system directory
                                        M-x load-library
```

#### Simple Customization

```
Here are some examples of binding global keys in Emacs Lisp.
```

```
(global-set-key "\C-cg" 'goto-line)
(global-set-key "\C-x\C-k" 'kill-region)
(global-set-key "\M-#" 'query-replace-regexp)
An example of setting a variable in Emacs Lisp:
(setq backup-by-copying-when-linked t)
```

#### Writing Commands

The argument to interactive is a string specifying how to get the arguments when the function is called interactively. Type C-h f interactive for more information.

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