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

Getting Help

The Help system is simple. Type C-h and follow the directions. If you are a first-time user, type C-h t for a tutorial.

remove Help window	C-x 1
scroll Help window	ESC C-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 comman	.d	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	C-s C-r C-M-s
reverse regular expression search	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.

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-M	•
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	$_{ m backward}$	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-M	
kill through next occurrence of char	M-z	char
yank back last thing killed replace last yank with previous kill	C-y M-y	

Marking

set mark here	C-@ or C-SPC
exchange point and mark	C-x $C-x$
set mark arg words away	M-@
mark paragraph	M-h
mark page	C-x C-p
mark sexp	C-M-Q
mark function	C-M-h
mark entire buffer	C-x h

Query Replace

interactively replace a text string using regular expressions Valid responses in query-replace mo	M-% M-x query-replace-regexp 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	į
back up to the previous match	^
exit query-replace	ESC
enter recursive edit (C-M-c to exit)	C-r

Multiple Windows

delete all other windows		C-x 1
delete this window		C-x 0
split window in two vertically		C-x 2
split window in two horizontally		C-x 3
scroll other window		C-M-v
switch cursor to another window		C-x o
shrink window shorter	M-x	shrink-window
grow window taller		C-x ^
shrink window narrower		C-x {
grow window wider		C-x }
select buffer in other window		C-x 4 b
display buffer in other window		C-x 4 C-o
find file in other window		C-x 4 f
find file read-only in other window		C-x 4 r
run Dired in other window		C-x 4 d
find tag in other window		C-x 4 .

Formatting

TAB
$C-M-\setminus$
C-M-q
C-x TAB
C-o
C-M-o
C-x C-o
M-^
M-\
M-SPC
M-q
C-x f
C-x .

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
capitalize region	M-x capitalize-region

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. The following keys are then defined.

previous minibuffer command	M-p
next minibuffer command	M-n

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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
${\rm transpose} \ {\bf words}$	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-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 *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	M-x clear-rectangle
prefix each line with a string	M-x string-rectangle

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 newline	. (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")	\
grouping	\(\)
nth group	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
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
iump to point saved in register	C-x	r	i

Info

C-h i
SPC DEL . (dot)
n p u m f 1 d g
h ? q 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-ESC
re-execute last minibuffer command
                                              C-x ESC ESC
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. Note that you cannot say "\M-#"; you must say "\e#".

```
(global-set-key "\C-cg" 'goto-line)
(global-set-key "\C-x\C-k" 'kill-region)
(global-set-key "\e#" '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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designed by Stephen Gildea, May 1993 v2.0
for GNU Emacs version 19 on Unix systems
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