GNU Emacs Reference Card (for version 18)

Starting emacs

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

Leaving Emacs

suspend Emacs (the ususal way of leaving it)	C-z
exit emacs permantly	C-x $C-c$

Files

read a file to Emacs	C-x	C-f
save a file back to disk	C-x	C-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 specifed file	C-x	C-M
run Dired, the directory editor	C-x	d

Getting Help

The help system is simple. Type C-h and follow the directions. If you are first time user, type C-h t for a tutorial. (This card assumes you know the tutorial.)

get rid of 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	С
describe a function	C-h	f
get mode-specific information	C-h	m

Error Recovery

abort partially typed or executing command	C-g
recover a file lost by a system crash	M-x recover-file
undo a wanted 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

Use C-s or C-r again to repeat the search in either direction

exit increamental search	ESC
undo effect of last character	DEL
abort current search	C-g

If Emacs is still searching, C-g will cancel the parts of the search not done, otherwise it aborts the entire search.

Motion

Cursor motion:

entity to move over	backward	forward
character	C-b	C-f
word	M-b	$\mathtt{M-f}$
line	C-p	C-n
go to 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->
Screen Motion:		
scroll to next screen	C-v	
scroll to previous screen	M-v	
scroll left	C-x <	
scroll right	C-x >	

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-O $C-k$	C-k
sentence	C-x DEL	M-k
sexp	M $C-M-k$	C-M-k

kill region C-w

kill to next occurrence of "char"	M-z	char
yank back last thing killed	С-у	
replace last yank with previous kill	М-у	

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 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 mode are	M-% M-x query-replace-regexp
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	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 2 vertically	C-x 2
split window in 2 horizontally	C-x 5
scroll other window	C-M-v
switch cursor to another window	C-x o
shrink window shorter	M-x shrink-window
shrink window taller	C-x ^
shrink window narrower	C-x {
shrink window wider	C-x }
select a buffer in other window	C-x 4 b
find file in other window	C-x 4 f

compose mail in other window	C-x	4	m
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
С-х С-о
$M-\setminus$
M-SPC
M-q
M-g
C-x f
С-х .

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
complet up to one word	SPC
complete and execute	RET
show possible completions	?
abort command	C-g

Type C-x ESC to edit and repeat the last command that used the mini buffer. The following keys are then defined.

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

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 speelin of all words in region	M-x spell-region
check spelling for entire buffer	M-x spell-buffer

Tags

find tag	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
query replace all the files	M-x tags-query-replace
continue last tags search or query-replace	M-,

Shells

execute a shell command	M- i
run a shell command on the region	M-
filter region through a shell command	C-u $M-I$
start a shell in window *shell*	M-x shell

Rmail

scroll forward	SPC
scroll reverse	DEL
begenning of message	. (dot)
next non-deleted message	n
previous non-deleted message	р
next message	M-n

previous message	М-р
delete message	d
delete message and back up	C-d
undelete message	u
reply to message	r
forward message to someone	f
send mail	m
get newly arrived mail	g
quit Rmail	q
output message to another Rmail file	0
output message in Unix-mail style	C-o
show summary of headers	h

Regular Expressions

The following have special meaning inside a regular expression.

any single character	. (dot)
zero or more repeats	*
one or more repeats	+
zero or one repeat	?
any character in set	[]
any character not in set	[]
beginning of line	^
end of line	\$
quote a special character "c"	\c
alternative "or"	\
grouping	\()\)
nth group	$\backslash n$
beginning of buffer	\ '
end of buffer	
word break	\b
not beginning or end of word	$\setminus B$
beginning of word	\<
end of word	\>
any word-syntax character	\setminus W
any non word-syntax character	$\setminus W$
character with syntax "c"	\sc
character with syntax not "c"	\Sc

Registers

copy region to register	C-x x
insert register contents	C-x g
save point in register	C-x /
move point to saved location	C-x j
Info	
enter the Info documentation reader	C-h i
Moving within a node:	
scroll forward	SPC
scroll reverse	DEL
beginning of node	.(dot)
Moving between nodes:	
next node	n
previous node	p
move up	u
select menu item by name	m
select "n"th menu item by number (1-5)	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 tutorial	h
list Info commands	?
quit Info	q
search nodes for regexp	S
Keyboard Macros	
start defining a keyboard macro	С-х (
end keyboard macro definition	C-x)
execute last-defined keyboard macro	С-х е
append to 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 sexp before point	С-х С-е

eval current defun

eval region

eval entire buffer

read and eval minibuffer

re-execute last minibuffer command

read and eval Emacs Lisp file

load from standard system directory

C-M-x

M-x eval-region

M-x eval-current-buffer

M-ESC

C-x ESC

M-x load-file

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 "\e\C-r" 'isearch-backward-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.