GNU Emacs Reference Card

(for version 30)

Key Binding Notation

In the Emacs key binding notation, C-x is Ctrl+X; M-x is usually Alt+X; S-x is Shift+X; and C-M-x is Ctrl+Alt+X, etc.

Leaving Emacs

iconify Emacs (or suspend it in terminal)	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 $C-w$
toggle read-only status of buffer	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	C-x 1
scroll help window	C-M-v
apropos: show commands matching a string	C-h a
describe the function a key runs	C-h k
describe a function	C-h f
get mode-specific information	C-h m

Error Recovery

abort partially typed or executing com	mand C-g
recover files lost by a system crash	M-x recover-session
undo an unwanted change	C-x u, C 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 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 matched.

Motion

entity to move over	backwar	d	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		М-е
paragraph	M-{		M-}
page	C-x [C-x]
sexp	C-M-b		C-M-f
function	C-M-a		С-М-е
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, top, bottom		C-l	
goto line		M-g g	5
goto char		M-g c	;
back to indentation		M-m	

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	MC-M-k	C-M-k
kill region	C-w	
copy region to kill ring	M-w	
kill through next occurrence of char	M-z	char
yank back last thing killed	С-у	
replace last yank with previous kill	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-@
mark function	C-M-h
mark entire buffer	C-x h

Query Replace

interactively replace a text string	M-%
using regular expressions	M-x query-replace-regexp
Valid responses in query-replace	mode are
replace this one, go on to next	SPC or y
replace this one, don't move	
skip to next without replacing	DEL or n
replace all remaining matches	!
back up to the previous match	
exit query-replace	RET
enter recursive edit (C-M-c to exi	t) C-r

Multiple Windows

When two commands are shown, the mand for a frame instead of a window		ilar com-
delete all other windows	C-x 1	C-x 5 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	C-	x 3
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	C-x 4 C-o	C-x 5 C-c
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 .
grow window taller	C-	x ^
shrink window narrower	C-	x {
grow window wider	C-	x }

Formatting

indent current line (mode-dependent)	TAB
indent region (mode-dependent)	C-M-/
indent sexp (mode-dependent)	C-M-q
indent region rigidly arg columns	C-x TAB
indent for comment	M-;
insert newline after point	C-o
move rest of line vertically down	C-M-o
delete blank lines around point	C-x C-o
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 to arg	C-x-f
set prefix each line starts with	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

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 ESC to edit and repeat the last command that used the minibuffer. Type F10 to activate menu bar items on text terminals.

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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
toggle on-the-fly spell checking	m-x flyspell-mode

Tags

find a tag (a definition)	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

Shells

execute a shell command	M-!
execute a shell command asynchronously	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-xrr
kill rectangle	C-xrk
yank rectangle	С-х г у
open rectangle, shifting text right	C-xro
blank out rectangle	C-xrc
prefix each line with a string	C-xrt

Abbrevs

add global abbrev	C-xag
add mode-local abbrev	C-xal
add global expansion for this abbrev	C-xaig
add mode-local expansion for this abbrev	C-xail
explicitly expand abbrev	C-x a e
expand previous word dynamically	M-/

Miscellaneous

numeric argument	C-u <i>num</i>
negative argument	M
quoted insert	C-q char

Regular Expressions

any single character except a newline zero or more repeats one or more repeats zero or one repeat quote special characters quote regular expression special charact		. (do * + ? \ \c	t)
alternative ("or") grouping		\ \(1)
shy grouping			\)
explicit numbered grouping			M: \)
same text as nth group		$\setminus n$	
at word break		\ b	
not at word break		\B	
entity	match star	rt	match end
line			\$
word	\<		\>
symbol	_<		_>
buffer	\'		\'
class of characters	match the	se	match others
explicit set	[]		[^]
word-syntax character	\w		/W
character with syntax c	\sc		\Sc
character with category c	\cc		\Cc

International Character Sets

specify principal language	C-x RET 1
show all input methods	$ exttt{M-x list-input-methods}$
enable or disable input method	C-\
set coding system for next command	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	C-h i	
find specified function or variable in Info	C-h S	
Moving within a node:		
scroll forward	SPC	
scroll reverse	DEL	
beginning of node	b	
Moving between nodes:		
next node	n	
previous node	p	
move up	u	
select menu item by name	m	
select nth menu item by number (1–9)	n	
follow cross reference (return with l)	f	
return to last node you saw	l	
return to directory node	d	
go to top node of Info file	t	
go to any node by name	g	
Other:		
run Info tutorial	h	
look up a subject in the indices	i	
search nodes for regexp	S	
quit Info	q	

Registers

save region in register	C-xrs
insert register contents into buffer	C-xri
save value of point in register	C-x r SPC
jump to point saved in register	C-xrj

Keyboard Macros

start defining a keyboard macro	C-x (
end keyboard macro definition	C-x)
execute 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 I is definition in buffer	M-v insert-khd-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
read	and eval minibuffer		M-:
load	a Lisp library from load-patl	1	M-x load-library

Simple Customization

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customize variables and faces M-x customize

Making global key bindings in Emacs Lisp (example):
(global-set-key (kbd "C-c g") 'search-forward)
(global-set-key (kbd "M-#") 'query-replace-regexp)
```

Writing Commands

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

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