

GNU Emacs Reference Card

(for version 20)

Starting Emacs

To enter GNU Emacs 20, 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 `C-x 1`
scroll help window `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 command `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-l`

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
character `C-b` backward `forward`
word `M-b` `C-f`
line `C-p` `M-f`
go to line beginning (or end) `C-a` `C-n`
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-l`

Killing and Deleting

entity to kill
character (delete, not kill) `backward` `forward`
word `DEL` `C-d`
line (to end of) `M-DEL` `M-d`
sentence `M-O` `C-k` `C-k`
sexp `C-x DEL` `M-k`
kill region `M--` `C-M-k` `C-M-k` `C-w`
copy region to kill ring `M-w`
kill through next occurrence of *char* `M-z` `char`
yank back last thing killed `C-y`
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 *ary* 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 using regular expressions `M-x query-replace-regex`
Valid responses in query-replace mode 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 `RET`
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 C-x 3
scroll other window C-M-v
switch cursor to another window C-x 0 C-x 5 0
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-o
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
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 C-x f
set prefix each line starts with C-x .
set face M-g

Case Change

uppercase word M-u
lowercase word M-l
capitalize word M-c
uppercase region C-x C-u
lowercase region C-x C-l

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 M-p
fetch later minibuffer input or default M-n
regex search backward through history M-r
regex 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
regex 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-replace 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 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 newline	.	(dot)
zero or more repeats	*	
one or more repeats	+	
zero or one repeat	?	
quote regular expression special character <i>c</i>	\c	
alternative ("or")		
grouping	\(... \)	
same text as <i>n</i> th group	\n	
at word break	\b	
not at word break	\B	
entity		
line	^	match start
word	\$	match end
buffer	\<	
buffer	\>	
class of characters		
explicit set	[...]	match these
word-syntax character	\w	match others
character with syntax <i>c</i>	\sc	

International Character Sets

specify principal language	M-x set-language-environment
show all input methods	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 C-1

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 <i>n</i> th menu item by number (1-9)	n
follow cross reference (return with 1)	f
return to last node you saw	l
return to directory node	d
go to any node by name	g

Other:

run Info tutorial	h
quit Info	q
search nodes for regex	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

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 Lisp definition in buffer	M-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
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

```
(defun command-name (args)  
  "documentation" (interactive "template")  
  body)
```

An example:

```
(defun this-line-to-top-of-window (line)  
  "Reposition line point is on to top of window.  
  With ARG, put point on line ARG."  
  (interactive "p")  
  (recenter (if (null line)  
                0  
                (prefix-numeric-value line))))
```

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

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designed by Stephen Gildea

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