## **GNU Emacs Reference Card**

(for version 25)

#### **Starting Emacs**

To enter GNU Emacs 25, just type its name: emacs

## **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
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 scroll help window	C-x 1 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 command 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 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 matched.

#### Motion

entity to move over	backwa	ırd	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, top, bott	om	C-1	
goto line		M-g	g
goto char		M-g	С
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	M $C-M-k$	C-M-k
kill region	C-w	ī
copy region to kill ring	M-w	ī
kill through next occurrence of $\it char$	M-z	char
yank back last thing killed	C-7	7
replace last yank with previous kill	м-у	7

## Marking

set mark here	C-0 or C-SPC
exchange point and mark	C-x C-x
set mark arg words away	M-@
mark <b>paragraph</b>	M-h
mark <b>page</b>	C-x C-p
mark sexp	C-M-@
mark function	C-M-h
mark entire <b>buffer</b>	C-x h

# **Query Replace**

interactively replace a text string		M-%
using regular expressions	M-x	query-replace-regex
Valid responses in query-replace m	ode	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 exit)	)	C-r

### Multiple Windows

mand for a frame instead of a window.						
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	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-
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	}		

When two commands are shown, the second is a similar com-

#### **Formatting**

indent current <b>line</b> (mode-dependent)	TAB
indent region (mode-dependent)	C-M-\
indent <b>sexp</b> (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 .
set face	M-o

# 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.

1.4 1 111	m.n
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-regi	on
check spelling of entire buffer	M-x ispell-buff	er
toggle on-the-fly spell checking	M-x flyspell-mo	de

# 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-repl	ace M-,

#### **Shells**

M-!
M-&
M-
C-u M-
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	С-х а е
expand previous word dynamically	M-/

## Miscellaneous

numeric argument	C-u	num
negative argument	M	
quoted insert	C-q	char

## Regular Expressions

any single character except	a newline	. (dot)
zero or more repeats		*
one or more repeats		+
zero or one repeat		?
quote special characters		\
quote regular expression spe	ecial character $c$	$\backslash c$
alternative ("or")		<b>\</b> I
grouping		\( \)
shy grouping		\(:? \)
explicit numbered grouping		\(:NUM \)
same text as $n$ th group		$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
at word break		\b
not at word break		<b>\</b> B
entity	match start	match end
line	^	\$
word	\<	\>
symbol	\_<	\_>
buffer	\'	\',
class of characters	match these	match others
explicit set	[ ]	[^ ]
word-syntax character	\w	\W
character with syntax c	$\sc$	$\Sc$

#### **International Character Sets**

character with category  $c \setminus cc$ 

specify principal language	C-x RET 1
show all input methods	M-x list-input-methods
enable or disable input method	C-\
set coding system for next comma	and C-x RET c
show all coding systems	M-x list-coding-systems
choose preferred coding system	M-x prefer-coding-system

 $\Cc$ 

#### 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 $\mathbf{up}$	u	
select menu item by name	m	
select $n$ th menu item by number $(1-9)$	n	
follow cross reference (return with 1)	f	
return to last node you saw	1	
return to directory node	d	
go to top node of Info file	t	
go to any node by name	g	
Other:		
run Info <b>tutorial</b>	h	
look up a subject in the indices	i	
search nodes for regexp	s	
quit Info	q	

### 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 made	cro 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 <b>sexp</b> before point		С-х С-е
eval current <b>defun</b>		C-M-x
eval <b>region</b>	M-x	eval-region
read and eval minibuffer		M-:
load a Lisp library from load-path	M-x	load-library

## Simple Customization

```
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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