## **GNU Emacs Reference Card**

(for version 21)

### **Starting Emacs**

To enter GNU Emacs 21, 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 scroll help window	C-x 1 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 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	C-s
search backward	C-r
regular expression search	C-M-s
reverse regular expression search	C-M-r
select previous search string	М-р
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.

## Motion

entity to move over	backw	$\operatorname{ard}$	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 of screen		C-u	C-1

# Killing and Deleting

entity to kill character (delete, not kill) word line (to end of) sentence sexp	backward DEL M-DEL M-0 C-k C-x DEL M C-M-k	C-d M-d C-k M-k
kill <b>region</b> copy region to kill ring kill through next occurrence of <i>char</i> yank back last thing killed replace last yank with previous kill	C-w M-w M-z C-y M-y	char

## Marking

set mark here	C-@ 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
$\max \mathbf{sexp}$	C-M-@
mark function	C-M-h
mark entire <b>buffer</b>	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
replace this one, go on to next replace this one, don't move skip to next without replacing replace all remaining matches	SPC , DEL
back up to the previous match exit query-replace enter recursive edit (C-M-c to exit)	ret 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 delete this window	C-x 2
split window, side by side	C-x 3
scroll other window	C-M-v
switch cursor to another window select buffer in other window display buffer in other window find file in other window find file read-only in other window run Dired in other window find tag in other window	C-x o C-x 5 o C-x 4 b C-x 5 b C-x 4 C-o C-x 5 C-o C-x 4 f C-x 5 f C-x 4 r C-x 5 r C-x 4 d C-x 5 d C-x 4 . C-x 5 .
grow window taller shrink window narrower grow window wider	C-x ^ C-x { C-x }

## Formatting

indent current line (mode-dependent)	TAB
indent <b>region</b> (mode-dependent)	$C-M-\setminus$
indent <b>sexp</b> (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-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	M-p
fetch later minibuffer input or default	M-n
regexp search backward through history	$ exttt{M-r}$
regexp search forward through history	M-s
abort command	C-g

Type C-x 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 <b>sexps</b>	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 visi	t-tags-table
regexp search on all files in tags table	M-x ta	gs-search
run query-replace on all the files	M-x tags-q	uery-replace
continue last tags search or query-repla	ce M-	· <b>,</b>

### 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	С-х а е
expand previous word dynamically	M-/

### **Regular Expressions**

any single character except a newline	$\cdot$ (dot)
zero or more repeats	*
one or more repeats	+
zero or one repeat	?
quote regular expression special character $c$	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
alternative ("or")	<b>\</b> I
grouping	\( \)
same text as $n$ th group	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
at word break	<b>\</b> b
not at word break	<b>\</b> B

entity match start match end line \*

#### **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 set coding system for next command show all coding systems

choose preferred coding system M-x prefer-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-i

Moving within a node:

scroll forward SPC scroll reverse DEL beginning of node . (dot)

Moving between nodes:

next node n previous node p  $move \mathbf{up}$ select menu item by name select nth menu item by number (1-9)nfollow 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
quit Info q
search nodes for regexp 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 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

eval current defun

eval region

read and eval minibuffer

load from standard system directory

C-x C-e

C-M-x

M-x

eval-region

M-:

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

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

```
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v2.2 for GNU Emacs version 21, 1997
designed by Stephen Gildea
```

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