VIP Quick Reference Card

(Based on VIP 3.5 in GNU Emacs 18)

Loading VIP

Just type M-x vip-mode followed by RET

VIP Modes

VIP has three modes: *emacs mode*, *vi mode* and *insert mode*. Mode line tells you which mode you are in. In emacs mode you can do all the normal GNU Emacs editing. This card explains only vi mode and insert mode. **GNU Emacs Reference Card** explains emacs mode. You can switch modes as follows.

from emacs mode to vi mode	C-z
from vi mode to emacs mode	C-z
from vi mode to insert mode	i, I, a, A, o, O or C-o
from insert mode to vi mode	ESC

If you wish to be in vi mode just after you startup Emacs, include the line:

(add-hook 'emacs-startup-hook 'vip-mode)

in your .emacs file. Or, you can put the following alias in your .cshrc file.

alias vip 'emacs \!* -f vip-mode'

Insert Mode

Insert mode is like emacs mode except for the following.

go back to vi mode	ESC
delete previous character	C-h
delete previous word	C-w
emulate ESC key in emacs mode	C-z

The rest of this card explains commands in **vi mode**.

Getting Information on VIP

Execute info command by typing $\mathtt{M-x}$ info and select menu item vip. Also:

describe function attached to the key x C-h k x

Leaving Emacs

suspend Emacs	X Z or :st
exit Emacs permanently	ZZ or XC or :q

Error Recovery

abort partially typed or executing comman	nd	C-g
redraw messed up screen		C-1
recover a file lost by a system crash	M-x	recover-file
restore a buffer to its original contents	M-x	revert-buffer

Counts

Most commands in vi mode accept a *count* which can be supplied as a prefix to the commands. In most cases, if a count is given, the command is executed that many times. E.g., $5 \ d \ d$ deletes 5 lines.

Registers

There are 26 registers (a to z) that can store texts and marks. You can append a text at the end of a register (say x) by specifying the register name in capital letter (say X). There are also 9 read only registers (1 to 9) that store up to 9 previous changes. We will use x to denote a register.

Entering Insert Mode

insert at point	i
append after cursor	a
insert before first non-white	I
append at end of line	А
open line below	0
open line above	0
open line at point	C-o

Buffers and Windows

move cursor to next window	C-n
delete current window	X O
delete other windows	X 1
split current window into two windows	X 2
show current buffer in two windows	Х З
switch to a buffer in the current window	${\tt s}$ buffer
switch to a buffer in another window	S buffer
kill a buffer	K
list existing buffers	ХВ

Files

visit file in the current window	v file or :e file
visit file in another window	V file
save buffer to the associated file	X S
write buffer to a specified file	X W
insert a specified file at point	ΧI
get information on the current file	g or :f
run the directory editor	X d

Viewing the Buffer

scroll to next screen	SPC or C-f
scroll to previous screen	RET or C-b
scroll down half screen	C-d
scroll \mathbf{up} half screen	C-u
scroll down one line	C-e
scroll up one line	С-у
put current line on the home line	z H or z RET
put current line on the middle line	zMorz.
put current line on the last line	z L or z -

Marking and Returning

mark point in register x	m	x
set mark at buffer beginning	m	<
set mark at buffer end	m	>
set mark at point	m	
jump to mark	m	,
exchange point and mark	٢	٢
and skip to first non-white on line	,	,
go to mark x	٢	x
and skip to first non-white on line	,	x

Macros

start remembering keyboard macro	Х	(
finish remembering keyboard macro	Х)
call last keyboard macro	*	
execute macro stored in register x	0	x

Motion Commands

go backward one character go forward one character next line keeping the column previous line keeping the column next line at first non-white previous line at first non-white	h 1 j k +
beginning of line	0
first non-white on line	^
end of line	\$
go to <i>n</i> -th column on line	n
go to <i>n</i> -th line	n G
go to last line	G
find matching parenthesis for (), {} and []	%
go to home window line	H
go to middle window line	M
go to last window line	L

Words, Sentences, Paragraphs

forward word	w or W
backward word	b or B
end of word	e or E

In the case of capital letter commands, a word is delimited by a non-white character.

forward sentence)
backward sentence	(
forward paragraph	}
backward paragraph	{

Find Characters on the Line

find c forward on line	f c
find c backward on line	F c
up to c forward on line	t c
up to c backward on line	T c
repeat previous f, F, t or T	;
in the opposite direction	,

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Searching and Replacing

search forward for <i>pat</i>	/ pat
search backward for <i>pat</i>	? pat
repeat previous search	n
in the opposite direction	N
incremental search	C-s
reverse incremental search	C-r
replace	R
query replace	Q
replace a character by another character c	r c

Modifying Commands

The delete (yank, change) commands explained below accept a motion command as their argument and delete (yank, change) the region determined by the motion command. Motion commands are classified into *point commands* and *line commands*. In the case of line commands, whole lines will be affected by the command. Motion commands will be represented by m below.

The point commands are as follows:

hl0^\$wWbBeE()/?'fFtT%;,

The line commands are as follows:

j k + - H M L { } G '

Delete/Yank/Change Commands

region determined by m into register x	delete d m " x d m	yank y m " x y m	change c m " x c m
a line	d d	Yoryy	сс
current region	d r	y r	cr
expanded region	d R	y R	c R
to end of line	D	у\$	с\$
a character after point	x	y l	c l
a character before point	DEL	y h	c h

Put Back Commands

Deleted/yanked/changed text can be put back by the following commands.

Put back at point/above line	Р
\dots from register x	" <i>x</i> P
\mathbf{put} back after point/below line	р
\dots from register x	"хр

Repeating and Undoing Modifications

undo last change	u	or :und
repeat last change	•	(dot)

Undo is undoable by u and repeatable by .. For example, u... will undo 4 previous changes. A . after 5dd is equivalent to 5dd, while 3. after 5dd is equivalent to 3dd.

Miscellaneous Commands

region line	< m	<pre>shift right > m > ></pre>	!		mma	nd	inde = m = =	nt
	,	n emacs mode n emacs mode			ESC/ C/X	′C−h		
join li	nes				J			
upper	•	ard macro on	ea	ch line in the	# c # C # g	m		
insert	specified str	ing for each li he words in th		•	# q # s	${m \atop m}$		

Differences from Vi

In VIP some keys behave rather differently from Vi. The table below lists such keys, and you can get the effect of typing these keys by typing the corresponding keys in the VIP column.

\mathbf{Vi}	VIP
SPC	1
C-h	h
RET	+
Х	DEL
C-g	g
S	хi
S	сс
${\tt C}~{\rm or}~{\tt R}$	с\$
	SPC C-h RET X C-g s S

(Strictly speaking, C and R behave slightly differently in Vi.)

Customization

By default, search is case sensitive. You can change this by including the following line in your .vip file.

```
(setq vip-case-fold-search t)
```

variable	default value
vip-search-wrap-around	t
vip-case-fold-search	nil
vip-re-search	nil
vip-re-replace	nil
vip-re-query-replace	nil
vip-open-with-indent	nil
vip-help-in-insert-mode	nil
vip-shift-width	8
vip-tags-file-name	"TAGS"

Include (some of) following lines in your .vip file to restore Vi key bindings.

```
(define-key vip-mode-map "\C-g" 'vip-info-on-file)
(define-key vip-mode-map "\C-h" 'vip-backward-char)
(define-key vip-mode-map "\C-m" 'vip-next-line-at-bol)
(define-key vip-mode-map "g" 'vip-forward-char)
(define-key vip-mode-map "g" 'vip-keyboard-quit)
(define-key vip-mode-map "s" 'vip-substitute)
(define-key vip-mode-map "C" 'vip-change-to-eol)
(define-key vip-mode-map "R" 'vip-change-to-eol)
(define-key vip-mode-map "S" 'vip-substitute-line)
(define-key vip-mode-map "X" 'vip-delete-backward-char)
```

Ex Commands in VIP

In vi mode, an Ex command is entered by typing:

: ex-command RET

Ex Addresses

current line		next line with <i>pat</i>	/ pat /
line n	n	previous line with <i>pat</i>	? pat ?
last line	\$	n line before a	a - n
next line	+	a through b	a , b
previous line	-	line marked with x	' x
entire buffer	%	previous context	, ,

Addresses can be specified in front of a command. For example,

:.,.+10m\$

moves 11 lines below current line to the end of buffer.

Ex Commands

mark lines matching <i>pat</i> and execute <i>cmds</i> on these lines	:g /pat/ cmds
mark lines <i>not</i> matching <i>pat</i> and execute <i>cmds</i> on these lines	:v /pat/ cmds
move specified lines after addr	:m addr
copy specified lines after addr	:co (or :t) addr
delete specified lines [into register x]	:d [x]
yank specified lines [into register x]	$:\mathbf{y} [x]$
put back text [from register x]	:pu [x]
substitute <i>repl</i> for first string on line matching	:s /pat/repl/
pat	
repeat last substitution	:&
repeat previous substitute with previous search	:~
pattern as pat	
read in a file	:r_file
read in the output of a shell command	:r! command
write out specified lines into file	:w file :w>> file
write out specified lines at the end of <i>file</i> write out and then quit	:w>> nie :wq file
-	-
define a macro x that expands to cmd	:map $x \ cmd$
remove macro expansion associated with x	:unma x
print line number	:=
print version number of VIP	:ve
shift specified lines to the right	:>
shift specified lines to the left	:<
join lines	:j
mark specified line to register x	:k x
set a variable's value	:se
run a sub shell in a window	:sh
execute shell command command	:! command
find first definition of tag tag	:ta tag
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Written by Masahiko Sato, using refcard layout designed by Stephen Gildea.

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