# 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 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 comma	and	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	Α
open line below	0
open line above	0
open line at point	C-o

#### **Buffers and Windows**

move cursor to <b>next</b> window	C-n
delete current window	ΧО
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	s buffer
switch to a buffer in another window	S buffer
kill a buffer	K
list existing <b>buffers</b>	ХВ

### **Files**

<b>visit</b> file in the current window	v file or :e file
visit file in another window	${\tt V}$ 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 <b>directory</b> editor	X d

# Viewing the Buffer

scroll to next screen scroll to previous screen	SPC or C-f RET or C-b
scroll <b>down</b> half screen	C-d
scroll <b>up</b> half screen	C-u
scroll down one line	С-е
scroll up one line	С-у
put current line on the <b>home</b> line	z H or z RET
put current line on the <b>middle</b> line	${\tt z}$ M or ${\tt z}$ .
put current line on the <b>last</b> line	z L or z -

# Marking and Returning

$\mathbf{mark}$ point in register $x$	m	$\boldsymbol{x}$
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	(	(
and skip to first non-white on line	,	,
go to mark x	(	$\boldsymbol{x}$
and skip to first non-white on line	,	$\boldsymbol{x}$

## Macros

start remembering keyboard macro	X	(
finish remembering keyboard macro	X	)
call last keyboard macro	*	
execute macro stored in register $x$	0	$\boldsymbol{x}$

## **Motion Commands**

go backward one character	h
go forward one character	1
next line keeping the column	j
previous line keeping the column	k
next line at first non-white	+
previous line at first non-white	-
beginning of line	0
first non-white on line	^
end of line	\$
go to <i>n</i> -th column on line	n
go to n-th line	n G
go to last line	G
find matching parenthesis for (), $\{\}$ and []	%
go to <b>home</b> window line	Н
go to <b>middle</b> window line	M
go to <b>last</b> 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
$\mathbf{find} \ c \ \mathbf{backward} \ \mathbf{on} \ \mathbf{line}$	F	c
up <b>to</b> $c$ forward on line	t	c
up $\mathbf{to} \ c$ backward on line	T	c
repeat previous f, F, t or T	;	
in the opposite direction	,	

# VIP Quick Reference Card

### Searching and Replacing

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

### **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:

```
h 1 0 ^ $ w W b B e E ( ) / ? ' f F t T %;,
```

The line commands are as follows:

#### Delete/Yank/Change Commands

	$\mathbf{delete}$	yank	${f change}$
region determined by $m$	$\mathtt{d}\ m$	y $m$	$c\ m$
$\dots$ into register $x$	" $x d m$	" $x$ y $m$	" $x$ c $m$
a line	d d	Y or y y	сс
current <b>region</b>	d r	y r	c r
expanded <b>region</b>	d R	y R	c R
to end of line	D	у \$	c \$
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	P		
$\dots$ from register $x$	11	$\boldsymbol{x}$	P
put back after point/below line	p		
$\dots$ from register $x$	"	$\boldsymbol{x}$	р

#### Repeating and Undoing Modifications

undo last change	u	or	:und
repeat last change		(dc)	ot)

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

#### Miscellaneous Commands

	shift left	shift right	filter shell con	nmand	indent
region	< m	> m	! $m$ shell-com		= <i>m</i>
line	< <	> >	!! shell-com		= =
emulat	e ESC/C-h i	n emacs mode		ESC/C-h	
emulat	e C-c/C-x i	n emacs mode		$\mathtt{C}/\mathtt{X}$	
join li	nes			J	
lowerca	ase region			# c $m$	
upperd	ase region			# C $m$	
executeregion	e last keybo	ard macro on	each line in the	# g $m$	
O	enecified stri	ng for each lir	ne in the region	# q m	
	•	0	0	=	
спеск я	spennig of tr	ne words in th	e region	# s $m$	

#### 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.

	$\mathbf{Vi}$	$\mathbf{VIP}$
forward character	SPC	1
backward character	C-h	h
next line at first non-white	RET	+
delete previous character	X	DEL
get information on file	C-g	g
substitute characters	S	хi
substitute line	S	СС
change to end of line	$\mathtt{C}\ \mathrm{or}\ \mathtt{R}$	c \$

(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 " '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 pat
                                                / pat /
line n
                     previous line with pat
                                                ? 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 pat and execute cmds on :g /pat/ cmds
mark lines not matching pat and execute cmds :v /pat/ cmds
on these lines
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]
                                                  :y [x]
put back text [from register x]
                                                  :pu [x]
substitute repl 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
write out specified lines at the end of file
                                                  :w>> file
write out and then quit
                                                  :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
                                                  :<
ioin lines
                                                  : j
mark specified line to register x
                                                  :k x
set a variable's value
                                                  :se
run a subshell in a window
                                                  :sh
execute shell command command
                                                 :! command
find first definition of tag tag
                                                 :ta tag
             Copyright © 2019 Free Software Foundation, Inc.
```

Copyright © 2019 Free Software Foundation, Inc. For VIP 3.5 with GNU Emacs version 18
Written by Masahiko Sato,
using refcard layout designed by Stephen Gildea.

Released under the terms of the GNU General Public License version 3 or later.

For more Emacs documentation, and the  $T_EX$  source for this card, see the Emacs distribution, or https://www.gnu.org/software/emacs