Rice University June 21, 2000 Document No. UNIX 4.01 vi Reference Card

INTERING vi

i (visual) is a display-oriented text editor based on an underly-1g line editor ex. When using vi, changes you make to the file re reflected in what you see on your terminal screen. The posion of the cursor on the screen indicates the position within the le. Many commands may be preceded by an integer, n, indicatig that the command is to be repeated n times at the current curor position. Typing the ESC (escape) character takes you out of put mode and into command mode. A partial command may be ancelled by typing ESC. To enter the vi editor type:

i -options filename

)PTIONS

l	lisp mode: indents appropriately for lisp code, the () {} [[and]] commands in vi are modified to have meaning for lisp	
r filename	recover filename after an editor or system crash. If file is not specified a list of all saved files will be printed.	
R	read only mode	
/string	search for string	
i filenamelist	enter vi, read in first file in filenamelist	
n	edit next file in filenamelist	
n filenamelist	specify new filenamelist	
e filename		
e#	return to original file	
e! filename	edit filename, discard previous buffer	
r filename	place copy of filename below the current line	
CONTROL-g	display the current file name and line number of current line	

Iodes of Operation

- 'ommand normal and initial mode; other modes return to command mode upon completion. ESC (escape) is used to cancel partial command.
- To enter the Input mode, type one of the following: nput a, i, A, I, o O, c, C, s, S, or R. Text may then be entered. Input mode is terminated with ESC character.

ESC	cancel unexecuted vi command
Control-C	stop in-progress command
u	counteract last command that changed the buffer
U	counteract changes to current line

REPEATING A COMMAND

repeat the last command that changed the buffer

SAVING WORK/EDITING

:w	write file under original name
ZZ or :wq	write file under original name, exit vi
:q	exit vi, no changes are saved
:w filename	write the file under <i>filename</i>
:w! filename	write the file under <i>filename</i> , overwrite existing
	filename
x,y w filename:	write lines x through y under <i>filename</i>
: <i>x</i> , <i>y</i> w !	filename write lines x through y under <i>filename</i> ,
	overwrite existing filename

DISPLAYING LINE NUMBERS

CONTROL-g display line number of current line :set number display all line numbers, to the left of each line **:set nonumber** remove all displayed line numbers

INSERTING TEXT

Inserting Text

insert before the current character
insert after the current character
insert at end of current line
insert at beginning of current line
insert below current line (opens new line)
insert above current line (opens new line)

ESC end text insertion

Replacing Text

- replace the current character, no ESC necessary r
- replace the current character s
- replace the current word cw
- S replace the current line
- С replace the current cursor position to end of line
- R replace from current cursor position to end of line, does not change characters typed over
- ESC end text insertion

Erasing During Insertion

Control-h erase character, move left or **DELETE Control-w** erase word, move left Control-u erase the current line

set wrapmargin=*x* set right margin to *x*, automatic word wrap

Setting Automatic Indentation

set autoindent:	set automatic indentation
:set noai	turn off automatic indentation
Control-d	move left one tabstop
Control-t	move right one tabstop

JOINING LINES

J	jo	in	the	current	line	and	the	line below it

J join # lines, starting with the current line

DELETING TEXT

x	delete the current character
# x	delete # characters, starting with current character
dw	delete current word
# dw	delete # words, starting with the current word
dd	delete the current line
# dd	delete # lines, starting with the current line
D	delete from current cursor position to end of line
: <i>x</i> , y d	delete lines x through y
d' /	delete from current line to line with marker /

COPYING TEXT

Making a Copy

- у yank current character
- yank # characters, starting with current character # y
- yank current word yw
- # **vw** yank # words, starting with current word
- yank current line уу
- yank # lines, starting with current line #yy
- $x, y \mathbf{v}$ yank lines x through y
- yank from current line to line with marker / **v**'/

RETRIEVING TEXT

- **p** place most recently deleted or yanked character(s) or word(s) after the current character, place line(s) below current line
- **P** place most recently deleted or yanked character(s) or word(s) before the current character, place line(s) above the current line

SHELL COMMANDS

:!command	execute one shell command
:sh	run subshell. Type exit and press RETURN to return
	to vi.
:r!command	insert output of shell command below current line

ving by characters

backspace	move left one character
-	move down one line
	move up one line
space bar	move right one character
ving by words	

move right one word or group of punctuation marks move left one word or group of punctuation marks move right one word move left one word move to the end of a word

ving by Li

ΓURN

nus)

es	
	move to the beginning of current lune
	move to the end of current line
	move to first non-white space character
	at beginning of next line
	move to first non-whitespace character
	at beginning of previous line
	move to top line on screen
	move to bottom line on screen
	move to middle line on screen
	move to end of file
	moves to line number x
	move to first character in line marked with /
	move to previous location (counteracts
	G or simple search)

ROLLING

trol-e	scrollup one line
trol-y	scroll down one line
trol-f	scroll forward one screen
trol-b	scroll backward one screen
trol-d	scroll forward half screen
itrol-u	scroll backward half screen
ETURN>	redraw screen, current line at top of
	screen
	redraw screen, current line at bottom of
	screen
	redraw screen, current line at center of
	screen.

Automatic Numbered Buffers (1-9)

"# p	place text from buffer # below current line
"# P	place text from buffer # above current line
	d Buffers (a-z) <i>mand</i> place text deleted or yanks with command into buffer
441	

"b р	place text from buffer b below current line
"b Р	place text from buffer b above current line

MOVING BY LINE NUMBER

:x mz	move line x below line z
:x, y mz	move lines x through y below z

COPYING BY LINE NUMBER

:xt z	copy line x below line z
: <i>x</i> , <i>y</i> m <i>z</i>	move lines x through y below line z

Recovering a File

vi -r filename	recover file lost during system crash or line
	disconnection
vi -r	list all recoverable files

SEARCHES

Searching in a Line

fc	move forward to find character c on current
	line, cursor rests on c
t c	move forward to find character c on current
	line, cursor rests on character before c
Fc	move backwards to find character on current
	line, cursor rests on c
Тс	move backwards to find character c on current
	line, cursor rests on character after c
;	repeat last f, F, t, T
,	inverse of last f , F , t , T

Simple Search

/string	search forward in the file for string
?string	search backward in the file for string
n	subsequent search in the same direction
Ν	subsequent search in the opposite direction
:set wrapscan set wrapping during a search	
:set nowrapscanset no wrapping during a search	

Global Search

:g/string/command command affects lines containing string :v/string/command command affects lines not containing string

Substitution (Search and Replace) :x,ys/oldstring/newstring/flags

<i>x</i> , <i>y</i>	line numbers in which the substitution is to occu
, ,	Give one line number, or two separated by a
	comma, which indicate a range of lines. Absence
	of line numbers indicates current line substitution
	command. Only the first occurrence of the string
	on the selected line(s) is replaces unless the g
	flag, described below, is used.
	6.
S	substitution command. Only the first occurrence
	the string on the selected line(s) is replaced unles
	the \mathbf{g} flag, described below, is used.
/oldstring	string to replace. If you do not specify an
	oldstring, vi searches for the oldstring specified i
	the last s command or search (if there was one).
/newstring	replacement string
/flags	optional, to specify the type of search:
	c wait for confirmation before substituting.
	Type y or n and press RETURN.
	g replace all occurrences of the string in
	specified lines
Special Cha	aracters in Searches
Character	Classes
[cccc]	match any specified letter or number

[cccc]	match any specified letter or number
[^cccc]	match all letters or numbers except those specifie
[c1-c2]	match all letters or numbers in specified range

Character at Specified Locations

\ <cc< th=""><th>match words that begin with cc</th></cc<>	match words that begin with cc
\>cc	match words that end in cc
^	match beginning of lines
^cccc	match lines that begin with cc
\$	match end of lines
cccc\$	match lines that end with cccc

Wildcard and Multiplier Characters

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- match any one character *
 - match zero or more occurrences of the preceding character
- .* match any number of characters