SEARCHES (continued)

Simple search

/*string*	Searches forward in the file for *string*
?*string*	Searches backward in the file for *string*
n	Subsequent searches in the same direction
N	Subsequent searches in the opposite direction
:set wrapscan	Sets wrapping during a search
:set nowrapscan	Sets 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,y*s/*oldstring*/*newstring*/*flags*

x,y	Line numbers in which the substitution is to occur. Give one line number, or two separated by a comma, which indicate range of lines. Absence of line numbers indicates current line.
s	Substitution command. Only the first occurrence of the string on the selected line(s) is replaced unless the **g** flag, described below, is used.
/*oldstring*	String to replace. If you do not specify an *oldstring*, *vi* searches for the *oldstring* specified in the last **s** command or search (if there was one).
/*newstring*	Replacement string
/*flags*	Optional; specify type of search: **c** Waits for confirmation before substituting. Type *y* or *n* and press RETURN. **g** Replaces all occurrences of the string in specified lines

Special characters in searches

Character Classes

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

SEARCHES (continued)

Characters at Specified Locations

\<*cc*	Matches words that begin with *cc*
\>*cc*	Matches words that end in *cc*
^	Matches beginning of lines
^*cccc*	Matches lines that begin with *cccc*
$	Matches end of lines
cccc$	Matches lines that end with *cccc*

Wildcard and Multiplier Characters

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

Matching Special Characters ($. * [ ] ^ \)

Precede the special character with \ (back slash)

Matching Occurrences

\{ *#*\ }	Matches # occurrences of preceding search string
\{ *#*, \ }	Matches at least *#* occurrences of preceding search string
\{ *#1*, *#2*\ }	Matches between *#1* and *#2* occurrences of preceding search string
\ (*string*\ ) \ #	Matches *string* followed by # occurrences of *string*

Special replacement characters (substitution only)

&	Substitutes the search string
%	Repeats last replacement string

Case in a search

:set ignorecase	Case ignored in a search
:set noic	Case distinguished in a search

MISCELLANEOUS

%	Moves to matching (,) , [,] , { , or }.

SHELL COMMANDS

:!*command*	Executes one shell command.
:sh	Runs subshell. Type *exit* and press RETURN to return to *vi*.
:r !*command*	Inserts output of shell command below current line

RECOVERING A FILE

vi -r *filename*	Recovers file lost during system crash or line disconnection
vi -r	Lists all recoverable files

SETTING *vi* CHARACTERISTICS

.exrc	File containing *ex* commands to execute at *vi* startup
EXINIT	Environment variable whose value is interpreted as *ex* commands. EXINIT executes at *vi* startup

REDRAWING THE SCREEN

CONTROL-l	Clears and redraws screen
CONTROL-r	Retypes screen and removes @ lines (slow and dumb terminals only)

TES

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SETTING THE TERMINAL TYPE

Bourne Shell

```
TERM=name
export TERM
```

C Shell

```
set term=name
```

UNDOING/CANCELING COMMANDS

ESC	Cancels unexecuted *vi* command
interrupt †	Stops in-progress command
u	Counteracts last command that changed the buffer
U	Counteracts changes to current line

† This character is user dependent. See your system administrator for specific character.

REPEATING A COMMAND

.	Repeats the last command that changed the buffer

ENTERING *vi* / READING IN A FILE

vi *filename*	Enters *vi*, reads in *filename*
vi *arglist*	Enters *vi*, reads in first file in *arglist*
:n	Already in *vi*, edits next file in *arglist*
:n *arglist*	Already in *vi*, specifes new *arglist*
:e *filename*	Already in *vi*, edits different file
:e#	Already in *vi* returns to original file
:e! *filename*	Already in *vi*, edit *filename*; discards previous buffer.
:r *filename*	Already in *vi*, places copy of *filename* below the current line
CONTROL-g	Displays current file name and line number of current line

ENTERING *vi* / READING IN A FILE (continued)

Options when entering

vi options *filename*

options:

-l	LISP mode
-r	Recovers file after editor or system crash
-R	Read only mode
-t *tag*	Start editing at *tag*
+/*string*	Search for *string*

SAVING WORK / EXITING

:w	Writes file under original name
ZZ or **:wq**	Writes file under original name, exits *vi*
:q	Exits *vi* if no modifications were made since the last write.
:q!	Exits *vi*, no changes are saved
:w *filename*	Writes the file under *filename*
:w! *filename*	Writes the file under *filename*; overwrites existing *filename*
:*x*,*y* **w** *filename*	Writes lines *x* through *y* under *filename*
:*x*,*y* **w!** *filename*	Writes lines *x* through *y* under *filename*; overwrites existing *filename*

DISPLAYING LINE NUMBERS

CONTROL-g	Displays line number of current line
:set number	Displays all line numbers, to left of each line
:set nonumber	Removes all displayed line numbers

ADDRESSING LINES
(*For ex command lines*)

Line numbers

Special symbols

.	Current line
^	First line in file
$	Last line in file
%	All lines in file

Relative lines

+	One line below the current line
–	One line above the current line
+#	# lines below the current line
–#	# lines above the current line

ADDRESSING LINES (continued)

Search strings

/string /	First occurrence of *string* below the current line
?*string* **?**	First occurrence of *string* above the current line

Markers

m *l*	Marks the currrent line with lowercase letter *l*
'*l*	Refers to line with marker *l*
`*l*	Refers to the character with marker *l*

INSERTING TEXT

Inserting Text

i	Inserts before the current character
a	Inserts after the current character
A	Inserts at end of current line
I	Inserts at beginning of current line
o	Inserts below current line (opens new line)
O	Inserts above current line (opens new line)
ESC	Ends the text insertion

Replacing Text

r	Replaces the current character; no ESC necessary
s	Replaces the current character
cw	Replaces the current word
S	Replaces the current line
C	Replaces from current cursor position to end of line
R	Replaces from current cursor position to end of line; does not change characters not typed over
ESC	Ends the text insertion

Erasing During Insertion

CONTROL-h or erase†	Erases characters, moves left
CONTROL-w	Erases words, moves left
kill†	Erases the current line

Setting Margins

set wrapmargin=*x*	Sets right margin of *x*; automatic word wrap

Setting Automatic Indentation

:set autoindent	Sets automatic indentation
:set noai	Turns off automatic indentation
CONTROL-d	Moves left one tabstop
CONTROL-t	Moves right one tabstop

† These characters are user dependent. See your system administrator for specific characters.

JOINING LINES

J	Joins the current line and the line below it
#J	Joins # lines, starting with the current line

SHIFTING TEXT

>>	Shifts current line right one tab stop
<<	Shifts current line left one tab stop
>'*a*	Shifts from current line through line with marker *a*, right one tabstop

CHANGING CASE

~	Changes case of current character

MOVING AROUND IN A FILE

Moving by Characters

h or **BACKSPACE**	Moves left one character
j	Moves down one line
k	Moves up one line
l or space bar	Moves right one character

Moving by Words

w	Moves right one word or group of punctuation marks
b	Moves left one word or group of punctuation marks
e	Moves to the end of a word or group of punctuation marks
W	Moves right one word
B	Moves left one word
E	Moves to the end of a word

Moving by Lines

0	Moves to beginning of current line
$	Moves to end of current line
RETURN	Moves to first non-whitespace character at beginning of next line
– (minus)	Moves to first non-whitespace character at beginning of previous line
H	Moves to top line on screen
L	Moves to bottom line on screen
M	Moves to middle line on screen
G	Moves to end of file
x **G**	Moves to line number *x*
'*l*	Moves to first character in line marked with *l*
`*l*	Moves to character marked with *l*
' '	Moves to previous location (counteracts **G** or simple search)

MOVING AROUND IN A FILE (CONTINUED)

Scrolling

CONTROL-e	Scrolls up one line
CONTROL-y	Scrolls down one line
CONTROL-f	Scrolls forward one screen
CONTROL-b	Scrolls backward one screen
CONTROL-d	Scrolls forward half screen
CONTROL-u	Scrolls backward half screen
z<RETURN>	Redraws screen, current line at top of screen
z–	Redraws screen, current line at bottom of screen
z.	Redraws screen, current line at center of screen

Moving by sentences/paragraphs

)	Moves to next sentence
(	Moves to previous sentence
}	Moves to next paragraph
{	Moves to previous paragraph

Moving to a column

# |	Moves to column number #.

DELETING TEXT

x	Deletes the current character
#x	Deletes # characters, starting with current character
dw	Deletes current word
#dw	Deletes # words, starting with current word
dd	Deletes the current line
#dd	Deletes # lines, starting with current line
D	Deletes from current cursor position to end of line
:*x*,*y* **d**	Deletes lines *x* through *y*
d'*l*	Deletes from current line to line with marker *l*

COPYING TEXT

Making a Copy

y	Yanks current character
# y	Yanks # characters, starting with current character
yw	Yanks current word
#yw	Yanks # words, starting with current word
yy	Yanks current line
#yy	Yanks # lines, starting with current line
:*x*,*y* **y**	Yanks lines *x* through *y*
y'*l*	Yanks from current line to line with marker *l*

RETRIEVING TEXT

p	Places most recently deleted or yanked character(s) or word(s) after the current character; places line(s) below the current line
P	Places most recently deleted or yanked character(s) or word(s) before the current character; places line(s) above the current line

TEXT BUFFERS

Automatic Numbered Buffers (1-9)

"#p	Places text from buffer # below current line
"#P	Places text from buffer # above current line

Named Buffers (a-z)

"*b command*	Places text deleted or yanked with *command* into buffer *b*
"*b* **p**	Places text from buffer *b* below current line
"*b* **P**	Places text from buffer *b* above current line

MOVING BY LINE NUMBER

:*x* **m***z*	Moves line *x* below line *z*
:*x*,*y* **m***z*	Moves lines *x* through *y* below line *z*

COPYING BY LINE NUMBER

:*x***t** *z*	Copies line *x* below line *z*
:x,y**t** *z*	Copies lines *x* through *y* below line *z*

SEARCHES

Searching in a line

f *c*	Moves forward to find charac *c* on current line; cursor rests on *c*.
t *c*	Moves forward to find charac *c* on current line; cursor restr character before *c*.
F *c*	Moves backwards to find character *c* on current line; cursor rests on *c*.
T *c*	Moves backwards to find character *c* on current line; cursor rests on character afte
;	Repeats last **f**,**F**,**t**, or **T**
,	Inverse of last **f**,**F**,**t**, or **T**