Vi Quick Reference

Entering and Exiting vi

vi file Edits file.

 $\mathbf{vi} + n$ file Edits file, cursor at line n. $\mathbf{vi} + file$ Edits file, cursor at end. $\mathbf{vi} - r$ List system saved files. $\mathbf{vi} - r$ file Edits system saved file. \mathbf{vi} file ... Edits first file; rest via : \mathbf{n} .

vi -t tag Edits file through tag in tags file.

vi +/pattern file Edits file, cursor at pattern. view file vi file, no modification.

ZZ Exits from **vi**, saving changes. ^Z Stops **vi** for later resumption.

The Display

Last line Error messages, echoing input to commands: /, ?, :, !, feedback about

I/O and large changes.

TABs Expands to spaces, cursor on last space.

Counts before vi Commands

Line/column no. z, G, |
Scroll amount ^D, ^U
Replicate insert a, i, A, I
Repeat effect Most rest

Vi States

Command mode Executes commands; the normal and initial state. Other modes return

to command mode. ESC cancels a partial command.

Insert mode Entered by a, i, A, I, o, O, c, C, s, S, R, followed by arbitrary

text terminated by ESC. An interrupt aborts an insertion.

Last line Reads user input for commands /, ?, :, !, which terminates in ESC

or RETURN. An interrupt aborts.

Basic Commands

dw Deletes a word.

de Deletes a word leaving punctuation.

dd Deletes a line.3dd Deletes three lines.

d% Deletes to matching parenthesis/bracket

itextESC Inserts text

cwtextESC Changes word to text

easESC Pluralizes word.

xp Transposes characters.

Interrupting, Cancelling, Shell Interaction

ESC Ends insert, input, or incomplete command.

?? (DELETE) interrupts vi.
?Z Suspends vi (csh and ksh).
:sh Runs default shell, then returns.
:! cmd Runs shell-level cmd, then returns.

File Manipulation

:w Writes back changes.

:wq Writes and quits from vi.

:q Quits from **vi**.

:q! Quits, discards changes.

:e file Edits file.

:e! Reedits, discards changes.

:e + file Edits file, starting at the end. :e + n file Edits file starting at line n.

 $: w \ file$ Writes to file. $: w! \ file$ Overwrites file.

:n Edits next file in argument list.
:n args Specifies new argument list.
:f Displays current file and line.

^G Synonym for :f.

:ta tag Goes to tags file entry tag.

Same as :ta, but current word is tag.

Positioning within File

T Moves forward a screen.
B Moves backward a screen.
D Scrolls down half a screen.
U Scrolls up half a screen.

kG Goto line k or last line (default). / patternESC Searches forward for pattern. ? patternESC Searches backward for pattern.

n Repeats last / or ?.

N Repeats last / or ? in other direction.

/pattern/+n Goto nth line after pattern.
?pattern?-n Goto nth line before pattern.
]] Next section or function.
[[Previous section or function.
% Finds matching (,), {, or }.

Adjusting the Screen

^L Clears and redisplays.

R Redisplays, eliminates @ lines.
 zRETURN Current line at window top.
 z- Current line at window bottom.
 z. Current line at window center.

/pattern/z- Line with pattern at bottom.

zn Uses n line window.

^E Scrolls window down one line. ^Y Scrolls window up one line.

Marking and Returning

Returns to previous context.

Returns to previous context at first nonblank character of the line.

mx Marks position with letter x.
'x Returns to marked position x.

'x Returns to x at first nonblank character in line.

Line Positioning

:.= Displays current line number
H Moves to the first window line.
L Moves to the last window line.
M Moves to the middle window line.

+ Next line.- Previous line.RETURN Same as '+'.

↓ or j↑ or kNext line, same column.Previous line, same column.

Character Positioning

First nonblank character.

0 (zero) Beginning of line (column one).

\$ End of line (last character).

 $\begin{array}{lll} \mbox{h or } \leftarrow & \mbox{Previous character.} \\ \mbox{l or } \rightarrow & \mbox{Next character.} \\ \mbox{$^{$\mbox{H}}$} & \mbox{Same as } leftarrow. \end{array}$

SPACE Same as \rightarrow .

fx Finds x forward in current line. Fx Finds x backward in current line. tx Moves forward upto x in current line. Tx Moves backward upto x in current line. Repeats last f F t or T ; in the reverse direction. Moves to specified column. Moves to matching $(, \{, \})$, or $\{\}$.

Words, Sentences, Paragraphs

W	Next word.
b	Moves backward to the beginning of a word.
е	End of word.
)	Next sentence.
}	Next paragraph.
(Moves backward to the beginning of a sentence.
{	Moves backward to the beginning of a paragraph.
W	Next blank delimited word.
В	Moves backward to the beginning of a blank delimited word.
E	End of blank delimited word.

Corrections During Insert

Deletes last input character.

Deletes last input word.

^H

^W

	ı
erase	Character erase, same as ^H.
kill	Line kill, deletes entire input line.
\	Escapes character erase and line kill.
ESC	Ends insertion, back to command mode.
interrupt	Aborts insert (usually ^c).
^D	Backtabs over blanks supplied by autoindent.
^^D	(hat then ^D) Kills autoindent; autoindent remains effective for next line.

0^D Kills autoindent; until next indent.

^V Quotes any special character.

Insert and Replace

a	Inserts after cursor.
i	Inserts before cursor.
Α	Inserts at end of current line.
I	Inserts before first nonblank character of current line.
0	Opens a line for insertion below current line.
0	Opens a line for insertion above current line.
$\mathbf{r}x$	Replaces current character with x .
R	Overwrites characters.
~	Changes case of current character.

Operators (Double to affect lines)

d	Deletes text object.
С	Changes text object.
<	Left shifts text object.
>	Right shifts text object.
у	Yanks text object to buffer.

Miscellaneous Operations

С	Changes rest of line.
D	Deletes rest of line.
S	Substitutes characters.
S	Substitutes lines.
J	Joins lines.
x	Deletes characters.
X	Deletes characters before cursor.

Cut and Paste

p or " <i>x</i> p	Pastes deleted or buffer x text after current position/line.
P or " x	Pastes deleted or buffer x text before current position/line.

"xy Copies (Yanks) text object to buffer x.

"xd Deletes text object into buffer x.

yy Yanks current line. nyy Yanks several lines.

Undo, Redo, and Retrieve

u Undoes last change.
U Restores current line.
. Repeats last change.
"np Retrieves nth last delete.