

VI

Cursor movement

```

h - move left
j - move down
k - move up
l - move right
w - jump by start of words (punctuation considered words)
W - jump by words (spaces separate words)
e - jump to end of words (punctuation considered words)
E - jump to end of words (no punctuation)
b - jump backward by words (punctuation considered words)
B - jump backward by words (no punctuation)
0 - (zero) start of line
^ - first non-blank character of line
$ - end of line
G - Go To command (prefix with number - 5G goes to line 5)

```



Prefix a cursor movement command with a number to repeat it. For example, 4j moves down 4 lines.

Insert Mode - Inserting/Appending text

```

i - start insert mode at cursor
I - insert at the beginning of the line
a - append after the cursor
A - append at the end of the line
o - open (append) blank line below current line (no need to press return)
O - open blank line above current line
ea - append at end of word
Esc - exit insert mode

```

Editing

```

r - replace a single character (does not use insert mode)
J - join line below to the current one
cc - change (replace) an entire line
cw - change (replace) to the end of word
c$ - change (replace) to the end of line
s - delete character at cursor and substitute text
S - delete line at cursor and substitute text (same as cc)
xp - transpose two letters (delete and paste, technically)
u - undo
. - repeat last command

```

Marking text (visual mode)

```

v - start visual mode, mark lines, then do command (such as y-yank)
V - start Linewise visual mode
o - move to other end of marked area
Ctrl+v - start visual block mode
O - move to Other corner of block
aw - mark a word
ab - a () block (with braces)
aB - a {} block (with brackets)
ib - inner () block
iB - inner {} block
Esc - exit visual mode

```

Visual commands

```
> - shift right
< - shift left
y - yank (copy) marked text
d - delete marked text
~ - switch case
```

Cut and Paste

```
yy - yank (copy) a line
2yy - yank 2 lines
yw - yank word
y$ - yank to end of line
p - put (paste) the clipboard after cursor
P - put (paste) before cursor
dd - delete (cut) a line
dw - delete (cut) the current word
x - delete (cut) current character
```

Exiting

```
:w - write (save) the file, but don't exit
:wq - write (save) and quit
:q - quit (fails if anything has changed)
:q! - quit and throw away changes
```

Search/Replace

```
/pattern - search for pattern
?pattern - search backward for pattern
n - repeat search in same direction
N - repeat search in opposite direction
:%s/old/new/g - replace all old with new throughout file
:%s/old/new/gc - replace all old with new throughout file with confirmations
```

Working with multiple files

```
:e filename - Edit a file in a new buffer
:bnex (or :bn) - go to next buffer
:bp (of :bp) - go to previous buffer
:bd - delete a buffer (close a file)
:sp filename - Open a file in a new buffer and split window
ctrl+ws - Split windows
ctrl+ww - switch between windows
ctrl+wq - Quit a window
ctrl+wv - Split windows vertically
```

Line Numbers

```
:set number
```

[cheatsheet, vi](#)

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