**VIM Keyboard Shortcuts**

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| **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 |
| Note: | 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 subsitute 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 |
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| **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 |
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| **Visual commands** | |
| > | shift right |
| < | shift left |
| y | yank (copy) marked text |
| d | delete marked text |
| ~ | switch case |
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| **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 |
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| **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 |
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| **Working with multiple files** | |
| :e filename | Edit a file in a new buffer |
| :bnext (or :bn) | go to next buffer |
| :bprev (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 |
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