# Vim Cheat Sheet

## Global

**:help keyword** - open help for keyword

**:o file** - open file

**:saveas file** - save file as

**:close** - close current pane

## Cursor movement

**h** - move cursor left

**j** - move cursor down

**k** - move cursor up

**l** - move cursor right

**w** - jump forwards to the start of a word

**W** - jump forwards to the start of a word (words can contain punctuation)

**e** - jump forwards to the end of a word

**E** - jump forwards to the end of a word (words can contain punctuation)

**b** - jump backwards to the start of a word

**B** - jump backwards to the start of a word (words can contain punctuation)

**0** - jump to the start of the line

**^** - jump to the first non-blank character of the line

**$** - jump to the end of the line

**g_** - jump to the last non-blank character of the line

**gg** - go to the first line of the document

**G** - go to the last line of the document

**5G** - go to line 5

**fx** - jump to next occurrence of character x

**tx** - jump to before next occurrence of character x

**}** - jump to next paragraph (or function/block, when editing code)

**{** - jump to previous paragraph (or function/block, when editing code)

**Ctrl + b** - move back one full screen

**Ctrl + f** - move forward one full screen

**Ctrl + d** - move forward 1/2 a screen

**Ctrl + u** - move back 1/2 a screen

## Editing

**r** - replace a single character

**J** - join line below to the current one

**cc** - change (replace) entire line

**cw** - change (replace) to the end of the word

**c$** - change (replace) to the end of the line

**s** - delete character and substitute text

**S** - delete line and substitute text (same as cc)

**xp** - transpose two letters (delete and paste)

**u** - undo

**Ctrl + r** - redo

**.** - repeat last command

## Marking text (visual mode)

**v** - start visual mode, mark lines, then do a command (like 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 ()

**aB** - a block with {}

**ib** - inner block with ()

**iB** - inner block with {}

**Esc** - exit visual mode

## Visual commands

**>** - shift text right

**<** - shift text left

**y** - yank (copy) marked text

**d** - delete marked text

**~** - switch case

## Registers

**:reg** - show registers content

**"xy** - yank into register x

**"0p** - paste contents of register x

## Marks

**:marks** - list of marks

**ma** - set current position for mark A

## Cut and paste

**yy** - yank (copy) a line

**2yy** - yank (copy) 2 lines

**yw** - yank (copy) the characters of the word from the cursor position to the start of the next word

**y$** - yank (copy) to end of line

**p** - put (paste) the clipboard after cursor

**P** - put (paste) before cursor

**dd** - delete (cut) a line

**2dd** - delete (cut) 2 lines

**dw** - delete (cut) the characters of the word from the cursor position to the start of the next word

**D** - delete (cut) to the end of the line

**d$** - delete (cut) to the end of the line

**x** - delete (cut) character

## Exiting

**:w** - write (save) the file, but don't exit

**:w !sudo tee %** - write out the current file using sudo

**:wq** or **:x** or **ZZ** - write (save) and quit

**:q** - quit (fails if there are unsaved changes)

**:q!** or **ZQ** - quit and throw away unsaved changes

## Search and replace

**/pattern** - search for pattern

**?pattern** - search backward for pattern

**\vpattern** - 'very magic' pattern: non-alphanumeric characters are interpreted as special regex symbols (no escaping needed)

**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

**:noh** - remove highlighting of search matches

## Search in multiple files

**:vimgrep /pattern/ {file}** - search for pattern in multiple files

## Working with multiple files

**:e** filename - edit a file in a new buffer

**:bnext** or **:bn** - go to the next buffer

**:bprev** or **:bp** - go to the previous buffer

**:bd** - delete a buffer (close a file)

**:ls** - list all open buffers

**:sp** filename - open a file in a new buffer and split window

**:vsp** filename - open a file in a new buffer and vertically split window

**Ctrl + ws** - split window

**Ctrl + ww** - switch windows

**Ctrl + wq** - quit a window

**Ctrl + wv** - split window vertically

**Ctrl + wh** - move cursor to the left window (vertical split)

**Ctrl + wl** - move cursor to the right window (vertical split)

**Ctrl + wj** - move cursor to the window below (horizontal split)

**Ctrl + wk** - move cursor to the window above (horizontal split)

## Tabs

**:tabnew** filename or **:tabn** filename - open a file in a new tab

**Ctrl + wT** - move the current split window into its own tab

**gt** or **:tabnext** or **:tabn** - move to the next tab

**gT** or **:tabprev** or **:tabp** - move to the previous tab

**#gt** - move to tab number #

**:tabmove #** - move current tab to the #th position (indexed from 0)

**:tabclose** or **:tabc** - close the current tab and all its windows

**:tabonly** or **:tabo** - close all tabs except for the current one

**:tabdo** command - run the command on all tabs (e.g. :tabdo q - closes all opened tabs)

## Insert mode - inserting/appending text

**i** - insert before the cursor

**I** - insert at the beginning of the line

**a** - insert (append) after the cursor

**A** - insert (append) at the end of the line

**o** - append (open) a new line below the current line

**O** - append (open) a new line above the current line

**ea** - insert (append) at the end of the word

**Esc** - exit insert mode

**`a** - jump to position of mark A

**y`a** - yank text to position of mark A

## Macros

**qa** - record macro a

**qq** - stop recording macro

**@@** - rerun last run macro

**:cn** - jump to the next match

**:cp** - jump to the previous match

**:copen** - open a window containing the list of matches