### Vim Editor [Yet Another] Cheat Sheet by PeterCeeAU via cheatography.com/58333/cs/15442/

### Modes

Vim offers multiple modes, including Normal, Insert, Command and Visual.

**Normal mode** is the mode Vim starts in and which is used for navigation and text manipulation. You can return to normal mode by pressing ESC.

**Insert mode** is used for inserting text and can be accessed several ways, the most common being "i" to Insert, "a" to Append, "c" to change.

**Command mode** is to enter commands such as searching, reading files, saving and exiting. It is accessed by ":" key.

Visual mode like normal mode is used for navigation and text manipulation, there are additional sub-modes - visual, visual-line and visual-block modes. Visual mode is accessed by pressing a variety of "v" key combinations.

In the various modes most commands execute immediately, the exception to this is Command mode where you need to press the Enter key to execute.

#### Insert Mode

- i insert 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 blank line below current line (no need to press return)
- o open blank line above current line
- ESC to exit insert mode (and return to normal mode)

Cursor movements can be combined with insert mode commands

- \* Bi insert at the start of the current word
- $^{\ast}$  ea append at the end of the current word
- \* Wi insert at the start of next word
- \* jI insert at the start of next line
- \* jA append at the end of next line



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Command Mode		
Key	Action	
:	enter command mode	
Enter	to action command	
Esc x2	to exit command mode (and return to normal mode)	

The command is only executed after pressing the Enter key.

Visual Mode		
Key	Action	
v	enter visual mode	
V	enter visual-line mode	
Ctrl-v	enter visual-block mode	
Esc X2	to exit visual mode (and return to normal mode)	

Examples of usage, after making visual selection perform the following actions:

visual-line mode

- \* delete complete lines d
- \* yank (copy) y
- visual-block mode
- \* Insert text to start of multiple lines I, <text,whitespace>, Esc,
- Esc
- \* Delete characters from the start of multiple lines d

Cursor Movement	
Key	Action
h	move left (also left cursor)
j	move down (also down cursor)
k	move up (also up cursor)
1	move right (also right cursor)
W	jump forward to start of words (punctuation considered words)
W	jump forward to start of words (spaces separate words)
е	jump forward to end of words (punctuation considered words)
Е	jump forward to end of words (spaces separate words)

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### **Cursor Movement (cont)**

b	jump backward to start of words (punctuation considered words)
В	jump backward to start of words (spaces separate words)
0	jump to start of line (zero)
Λ	jump to first non-blank character of line
\$	jump to end of line
G	go to end of file
gg	go to start of file
Н	move to top of screen (no screen movement)
Μ	move to middle of screen (no screen movement)

L move to bottom of screen (no screen movement)

Prefix a movement command with a number to repeat the move that number of times.

### Editing

9	
Key	Action
х	delete character from right
X	delete character to left
r	replace a single character (does not use insert mode)
R	replace multiple characters
<b>change</b> c+option	start change command (will enter Insert mode)
CW	change to the end of word
CC	change an entire line
C\$ or C	change to the end of line
cG	change to end of file
delete d+option	start delete command (will stay in Normal mode)
dw	delete word
dd	delete entire line

## Editing (cont)

d\$ <b>or</b> D	delete to the end of the line
dG	delete to the end of the file
S	delete character at cursor and substitute text (enters Insert mode)
S	delete line at cursor and substitute text (same as cc)
хр	transpose two letters (technically a combo to delete and paste)
u	undo
Crtl-	redo
r	
•	repeat last command
J	join current line with line below

Commands seem similar but there are slight differences. Some command will execute and can be repeated by pressing the same key. Other commands will perform the action and then automatically switch to Insert mode. Also, a command can be performed in multiple modes with slightly different keystrokes.

Commands are combined with cursor movement commands, so it is possible to:

- \* dgg delete to beginning for file
- \* c5w change 5 words
- \* 4dj delete current and 4 other lines

Cut, Copy, Paste		
Key	Action	
delete	delete, i.e. cut (see previous)	
yank (y+option)	yank, i.e. copy	
УW	yank word	
УУ	yank line	
2yy	yank 2 lines	
сv	yank current and next line	
put (p+option)	put, i.e. paste	
р	put clipboard contents after cursor	
Р	put clipboard contents before cursor	
2p	paste 2 copies	



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Open, Save and Exit

:r !head -n5 file

Key

:w

:q

:q! :r file

:w file

:wq or ZZ

:e file

:sp file

ctrl-ww

!! command

:1,5w file

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Search and Replace		
Key	Action	
/pattern	search for pattern forward from cursor	
?pattern	search for pattern backward from cursor	
n	repeat search in same direction	
N	repeat search in opposite direction	
:%s/old/new/g	replace all old with new throughout file	
:%s/ <i>old/new</i> /gc	replace all <i>old</i> with <i>new</i> throughout file with confirmations	
:1,.%s/old/new/g	search from start of file to current cursor position, replace all <i>old</i> with <i>new</i>	
:.,\$%s/ <i>old/new</i> /g	search from current cursor position to end of file, replace all <i>old</i> with <i>new</i>	

Action

write to new file

cursor position

edit file in new buffer

overwrite current line

switch between windows

write lines 1-5 to new file write (save) and quit

quit and discard changes

write (save) the file, but don't exit

quit (fails if anything has changed)

read in file to current cursor position

read in the first 5 lines of file to current

edit file in new buffer and split window

perform shell command, output will

Marks	
:marks	list of marks - includes mark name, line, column and text
ma	set current position for mark 'a'
'a	jump to position of mark 'a'
`a	jump start of line of mark 'a'
y'a	yank from current position to mark 'a'

Can use a variety of commands from current position to position of mark 'a'. Most often use this command to copy and paste multiple lines of text. Similar results can be achieved in Visual mode.

Ranges	
:.	perform action on current line
:1	perform action on line 1
:1,5	perform action on lines 1-5
:\$	perform action on last line
:%	perform action on all lines
:5,\$	perform action on lines 5 to last
:.,\$	perform action on current to last line
:.+1,\$	perform action on line below current to last
:.+1,.+5	perform action on line below to 5 lines below current line
:'a,'b	peform action from mark ${\tt a}$ to mark ${\tt b}$

Ranges are combined on the Command line to perform a task on the lines specified. The default range, for most commands, is the current line. While for other commands the default range is all lines. :1,5d - delete lines 1-5

:5, .y - yank lines 5 to current

:., \$s/old/new/g - replace old with new from current line to end of file

'a, 'by - yank from 'a' to 'b'

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Miscellaneous	
:set number	display line numbers
<pre>:set number! or :set nonumber</pre>	turn off line numbers
:colorscheme <colorscheme></colorscheme>	change colorscheme
:version	show version and other information
:set list	show hidden characters
:set nolist	do not show hidden characters
Ctrl-V, <b>cursor highlight</b> , I, #, Esc, Esc	multi-line comment
Ctrl-V, cursor highlight,	delete multi-line comment
:nohl	remove search highlight
:%s/^M//g	replace DOS carriage returns (if dos2unix is not installed)

Commands can be abbreviated, e.g. :nohl is shorthand for :nohl-search

#### Configuration

Global defaults can be configured in /etc/vimrc but setting personal defaults is preferred. Shared colour scheme files are located in /usr/share/vim/vimXX/colors Personal defaults can be configured in ~/.vimrc Personal colour scheme files added to ~/.vim/colors Specifiy default colour scheme in ~/.vimrc colorscheme <colorscheme>

### **Useful Links**

https://en.wikibooks.org/wiki/Learning\_the\_vi\_Editor/Vim/Modes http://vim.wikia.com/wiki/Vim\_Tips\_Wiki http://vim.wikia.com/wiki/Search\_and\_replace http://vimcolors.com/ https://www.howtoforge.com/vim-basics



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