

CS542200

Parallel Programming

Basic ViM Tutorial

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Outline

Basic Concepts

Common Operations

- *Open / Close / Suspend / Resume*
- *Normal-Mode / Insert-Mode / Visual-Mode*
- *Cursor movements*
- *Screen Scrolling*
- *Copy / Paste / Delete*
- *Undo / Redo / Search*

Basic Concepts

ViM is a modal editor

- VIM has 11 modes
- Users should always aware of current mode

ViM uses keyboard only

- this can be pretty difficult to learn
- “Google is your best firend”

Common Operations

vim命令圖解

vim命令圖解

游標移動/範圍單位

字元(character)

h j k l

← ↓ ↑ →

單字(word)

w b 前/後個單字

W B 前/後個單字(跳過符號)

e 單字尾端

行(line)

O 行頭 S 行尾

A 行頭(非空白字元)

段落(paragraph)、區塊(block)

{ 上一段 } 下一段

[{ 區塊頭]} 區塊尾

% 對應括號

螢幕(screen)、檔案(file)

H 螢幕頂端 Zt 捲至頂端

M 螢幕中間 zz 捲至中間

L 螢幕底部 zb 捲至底部

Ctrl-W p Ctrl-W k Ctrl-W j Ctrl-W l

Ctrl-F Ctrl-B

gg 檔頭 G 檔尾

mx 標記x 'x 跳至標記x

搜尋(search)

* # 向後/向前搜尋目前單字

fx 向後搜尋字元x

gd 跳至目前單字的定義位置

/xxx 搜尋xxx

n N 下/上一個搜尋結果

模式切換指令

ESC C-v 進入normal mode

V 進入visual mode

V 進入visual line mode

C-v 進入visual block mode

i 進入insert mode

R 進入replace mode

a 在游標後附加

A 在行末附加

動作指令

y 複製(範圍)

d 刪除/剪下(範圍)

c 修改(範圍)

x 刪除/剪下(字元)

D 刪除至行末

C 修改至行末

p 貼上

J 和下一行合併

r 替換(字元)

> 縮排

< 反縮排

. 重複上一命令

u 回復上一命令

EX指令

:w 儲存(:wq 儲存並退出)

:q 退出(:q! 強制退出)

:e x 編輯檔案x

:n 開新文件

:h 呼叫vim help

:xx 跳至xx行

自動補齊 [insert mode]

C-N C-P 自動補齊下/上個可能字

C-X C-F 自動補齊可能檔名

分割視窗(split window)

:vsp :sp 垂直/水平分割視窗

:diffs 分割視窗並比較(diff)檔案

:C-W p (來回)跳至前一個分割視窗

:C-W w 跳至下個分割視窗

<http://blog.vgod.tw.s3.amazonaws.com/wp-content/uploads/2009/12/vim-cheat-sheet-full.png>

Common Operations 1

Open / Close / Suspend / Resume

Open / Close File: [:help write-quit]

- `vim file.txt`
- `:q`

Suspend / Resume

- `<Ctrl> + <Z>`
- `jobs`
- `fg [number]`

Common Operations 2

Normal-Mode / Insert-Mode / Visual-Mode

Normal Mode <Esc>

- Every entered are interpreted as commands
- One can always switch to this mode by double tapping <Esc>

Insert Mode <i> <I> <a> <A> <o> <O>

- Most keys are inserted as text

i	switch to insert-mode before cursor
I	switch to insert-mode and jump to first non-blank character of this line
a	switch to insert-mode after cursor
A	switch to insert-mode and jump to the end of the line
o	Add a new line after current line and get into insert-mode
O	Add a new line before current line and get into insert-mode

Common Operations 2 (cont'd)

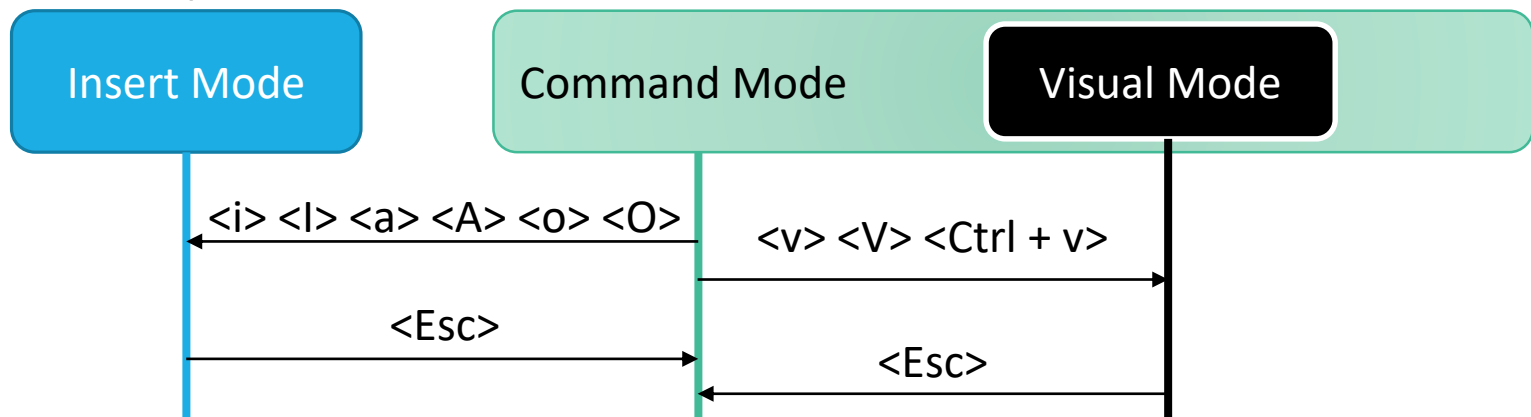
Normal-Mode / Insert-Mode / Visual-Mode

Visual Mode <v> <V> <Ctrl + v>

- Visually select some texts (with most normal-mode commands)

v	Switch to the visual mode (character oriented)
V	Switch to the visual mode (line oriented)
Ctrl + v	Switch to the visual mode (block oriented)

To Sum up:

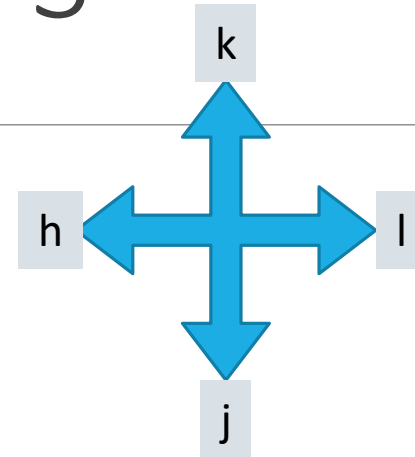


Common Operations 3

Cursor movements

Move in character unit

- in vi (normal mode) `<h> <j> <k> <l>`
- in vim (any mode) `<←> <↓> <↑> <→>`



Move in word unit

w	Jump to the beginning of next word
W	Jump to the beginning of next word, ignore punctuation
e	Jump to the end of next word
E	Jump to the end of next word, ignore punctuation
b	Jump to the beginning of last word
B	Jump to the beginning of last word, ignore punctuation
ge	Jump to the end of last word
gE	Jump to the end of last word, ignore punctuation

Common Operations 3 (cont'd)

Cursor movements

Move to the beginning / end of one line

Home / 0	Move to the first column of the line
^	Move to the first non-blank column of the line
End / \$	Move to the last column of the line
g_	Move to the last non-blank column of the line

Move to somewhere relative to screen

H	Move to the top of current screen
M	Move to the middle of current screen
L	Move to the bottom of current screen

Common Operations 3 cont'd

Cursor movements

Move to any line in a file

<code>[num]G / :[num]</code>	Move to the line with line number <code>[num]</code>
<code>gg</code>	Move to the first line of the file
<code>G</code>	Move to the last line of the file
<code>[num]%</code>	Move to the line at <code>[num]</code> % relative to the file

Common Operations 3 cont'd

Screen Scrolling

Ctrl + F / PgDn	Scroll the screen one page forward
Ctrl + B / PgUp	Scroll the screen one page backward
Ctrl + E	Scroll the screen one line forward
Ctrl + Y	Scroll the screen one line backward
zt	Scroll the screen to place the cursor at the 1 st non-blank line
zb	Scroll the screen to place the cursor at the last non-blank line
zz	Scroll the screen to place the cursor at the 1 st non-blank line

Common Operations 4

Copy / Paste / Delete

Yank (copy) <y>

y[num]l	Yank [num] chars before cursor
y[num]h	Yank [num] chars after cursor
yy	Yank this line
[num]yy	Yank [num] lines from cursor

Paste <p>

p	Paste after cursor
P	Paste before cursor
"[num]p	Paste the [num]-th most recent contents after cursor

Common Operations 4 (cont'd)

Copy / Paste / Delete

Delete <d><x>

- the deleted contents are yanked and can be pasted later

x / Del	Delete chars after cursor
X / BackSpace	Delete chars before cursor
d[num]l / [num]X	Delete [num] chars before cursor
d[num]h / [num]x	Delete [num] chars after cursor
dd	Delete this line
[num]dd	Delete [num] lines from cursor

Common Operations 5

Undo / Redo / Search

Undo / Redo

u	Undo
Ctrl + r	Redo

Search

/[RegExp]	Search for pattern in a file
n	Next occurrence of the searched pattern
N	Last occurrence of the searched pattern

References

Vim Introduction and Tutorial

- https://blog.interlinked.org/tutorials/vim_tutorial.html

OpenViM Interactive Tutorial

- <http://www.openvim.com/>