Introduction to Vim, II

Introduction to Programming

EE231002

Sep. 24, 2018

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- vim use keyboard as the input device for better efficiency
- In normal mode, one can use h, j, k, and 1 to move cursor
 - h=←, j=↓, k=↑, 1=→
- \bullet One can also use the following normal mode command to go to line number ${\tt n}$ directly
 - :n: go to line n, n is an integer
 - This is especially useful for debugging

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• In normal mode, one can copy one line or multiple lines into the buffer

- yy : copy the current line into the buffer
- <u>nyy</u>: copy n lines, starting from the current line, into the buffer (n is an integer)
- The content of the buffer can be pasted following the current line by
 - **p**: paste the content of the buffer following the current line.

- In normal mode, the following are delete commands
 - dd : delete the current line and place it into the buffer
 - | ndd : delete n lines, starting from the current line, and place it into the buffer
 - D: delete to the end of the line (from the cursor position) and place the content into the buffer
 - dw : delete the current word and place it into the buffer
- The content of the buffer can be pasted at the current position using
 - **p**: paste the content of the buffer at the current position.

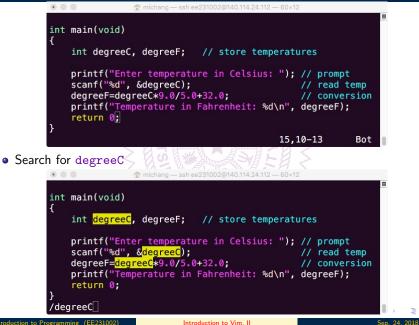
Undo, Redo and Repeat Command

- In normal mode, delete (and other commands) can be undo by
 - u: undo command
- After undo, the original operation can be redone by
 - Ctl-r : redo command
- In normal mode, the same command can be repeated by
 - repeat command

• In normal mode, one can search for a word by

- /word : searches for tkbword
- The cursor will be placed at the first word after the cursor.
- To search for the next word use command
- n: searches for the next word
- To search for the previous word use command
- N : searches for the previous word
- Note that <u>/word</u> searches the first word after the cursor, to search for the previous work use the following command
 - ?word : search for the previous word before the cursor position
- Note that after searching command, all word will be highlighted
 - To turn off highlight, use the following command
 - : noh : turn off highlights

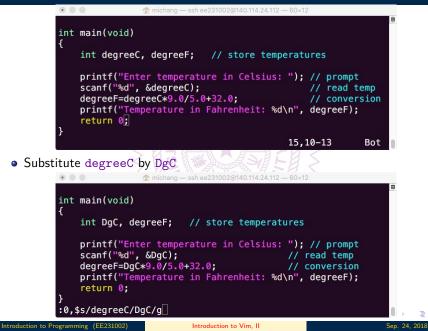
Search Example



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- In normal mode, one can substitute word1 by word2 by
 - :0,\$s/word1/word2/g
 - This command replaces all occurrences of word1 by word2
 - :m,ns/word1/word2/cgi
 - This command replaces word1 by word2 from line m to n
 - c : confirmation
 - g: all occurrence, not the first one of each line
 - i : case insensitive

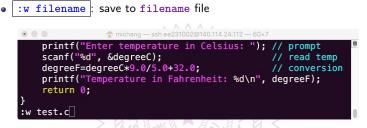
Substitute Example



9 / 12

Read and Write

• In normal mode, the file can be saved to a different name



- One can also read in other file's content and place after current line
 - :r filename : read filename



Swap File Error Example

• vim error? . . . Tinchang - ssh ee231002@140.114.24.112 - 80×23 F325: ATTENTION Found a swap file by the name ".lab01.c.swp" owned by: ee231002 dated: Fri Sep 9 07:19:36 2016 file name: ~ee231002/C_program/lab01/lab01.c modified: no user name: ee231002 host name: ws38 process ID: 1907 (still running) While opening file "lab01.c" (1) Another program may be editing the same file. If this is the case, be careful not to end up with two different instances of the same file when making changes. Quit, or continue with caution. (2) An edit session for this file crashed. If this is the case, use ":recover" or "vim -r lab01.c" to recover the changes (see ":help recovery"). If you did this already, delete the swap file ".lab01.c.swp" to avoid this message. Swap file ".lab01.c.swp" already exists! [0]pen Read-Only, (E)dit anyway, (R)ecover, (Q)uit, (A)bort:

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Swap File

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• When editing a file file, a temporary file .file.swp, is created

- .file.swp is deleted after successful quitting from vim program
- If vim is abnormally terminated, .file.swp remains
- The next time vim file will have an error
- This .file.swp should be removed using linux command

• rm .file.swp

[ee231002@ws38 lab01]\$ vim lab01.c
[ee231002@ws38 lab01]\$ rm .lab01.c.swp
[ee231002@ws38 lab01]\$ vim lab01.c]

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