

# LAB #2

## PART I: THE VIM TEXT EDITOR

Sections

1. Introduction

2. Two modes, insert and normal

3. Basic movement: h, j, k, and l

4. Word movement: w, e, b

5. Number powered movement, e.g. 5w

6. Insert text repeatedly, e.g. 3iYes

7. Find a character, f and F

8. Go to matching parentheses, %

9. Go to start/end of line, 0 and \$

10. Find word under cursor, \* and #

11. Goto line, g and G

12. Search, /text with n and N

13. Insert new line, o and O

14. Removing a character, x and X

15. Replacing letter under cursor, r

16. Deleting, d

17. Repetition with .

18. Visual mode, v

19. Real Vim awaits

20. The end

Tutorial Practice Development Bugs

Two modes, insert and normal

mode: NORMAL7,41

1 Vim has two basic modes. One is insert mode, in which you write text as if in normal text editor.

2 Another is normal mode which provides you efficient ways to navigate and manipulate text.

3 At any time, you can see which mode you are in on the status bar which is located at the top of the editor.

4 To change between modes, use Esc for normal mode and i for insert mode

5 Let's try it out! First, change to insert mode.

6 Good, now you're in insert mode. Write something and change back to normal mode. Hello EE463

7 Good. Let's move on to another section.

Esc3dScreen brightnessKeyboard size

1!2"3#4\$5%6&7/8(9)0=

tabqwertyuiop<=

capsasdgfhjkl\*Enter

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TutorialPracticeDevelopmentBugs

Basic movement: h, j, k, and l

mode: NORMAL3, 16

1 In contrast to regular text editor, you use keys **h**, **j**, **k**, and **l** instead of arrow keys to move the cursor.

2 Let's see how it works in practice!

3 Let's move on.

Esc3dScreen brightnessKeyboard size

1 !2 "3 #4 \$5 %6 &7 /8 (9 )0 =

tabq w e r t y u i o p <=

capsa s d f g h j k l \* Enter

shiftz x c v b n m , . > <

ctrlaltSpace

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TutorialPracticeDevelopmentBugs

Word movement: w, e, b

mode: NORMAL3, 22

1 To navigate the text in terms of words, you can use keys **w**, **b**, and **e** (also **W**, **B**, **E** in real Vim).

2 **w** moves to the start of next word; **e** moves to the end of the word; and **b** moves to beginning of the word.

3 Word! Let's move on.

Esc3dScreen brightnessKeyboard size

1 !2 "3 #4 \$5 %6 &7 /8 (9 )0 =

tabq w e r t y u i o p <=

capsa s d f g h j k l \* Enter

shiftz x c v b n m , . > <

ctrlaltSpace

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Number powered movement, e.g. 5w

mode: NORMAL1,24

1 Moving within the text is not limited to individual keys; you can combine movement keys with a number. For example, 3w is the same as pressing w three times.

Esc3dScreen brightnessKeyboard size

1!2"3#4\$5%6&7/8(9)0=

tabqwertyuiop<=

capsasdhfgjkl\*Enter

shiftzxcvbnm.,.><

ctrlaltSpace

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TutorialPracticeDevelopmentBugs

Insert text repeatedly, e.g. 3iYes

mode: NORMAL5,47

1 You can insert text multiple times.

2 For example, an underline of a header might consist of 30 s.

3 -----

4 With 30i Esc, there's no need to press 30 times.

5 Let's try it out: insert go three times.gogogo

Esc3dScreen brightnessKeyboard size

1!2"3#4\$5%6&7/8(9)0=

tabqwertyuiop<=

capsasdhfgjkl\*Enter

shiftzxcvbnm.,.><

ctrlaltSpace

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TutorialPracticeDevelopmentBugs

Find a character, f and F

mode: NORMAL2,92

1 To find and move to the next (or previous) occurrence of a character, use f and F, e.g. fo finds next o.

2 You can combine f with a number. For example, you can find 3rd occurrence of 'q' with 3fq, que?

Esc3dScreen brightnessKeyboard size

1!2"3#4\$5%6&7/8(9)0=

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TutorialPracticeDevelopmentBugs

Go to start/end of line, 0 and \$

mode: NORMAL2,1

1 To reach the beginning of a line, press 0.

2 For the end of a line, there's \$

Esc3dScreen brightnessKeyboard size

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TutorialPracticeDevelopmentBugs

Find word under cursor, \* and #

mode: NORMAL2,31

1 Find the next occurrence of the word under cursor with \*, and the previous with #.

2 Nothing new under the cursor.

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tabqwertyuiop<=

capsasdhfgjhkl;'Enter

shiftzxcvbnm.,.><

ctrlaltSpace

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TutorialPracticeDevelopmentBugs

Goto line, g and G

mode: NORMAL3,76

1 gg takes you to the beginning of the file; G to the end.

2 To jump directly to a specific line, give its line number along with G.

3 Now go to the beginning of this screen with gg and then back to end with G.

Esc3dScreen brightnessKeyboard size

1!2"3#4\$5%6&7/8(9)0=

tabqwertyuiop<=

capsasdhfgjhkl;'Enter

shiftzxcvbnm.,.><

ctrlaltSpace

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tabqwertyuiop<=

capsasdgfhjkl\*Enter

shiftzxcvbnm.,><

ctrlaltSpace

## PART II: SHELL SCRIPT EXAMPLE

khaled@lamp: /home/khaled

Linux Software Diagnostics (LSD) Shell Script Ver.1.0

Press Up/Down Keys to move

User name: khaled (Login name: khaled)

Current Shell: /bin/bash

Home Directory: /home/khaled

Your O/s Type: linux-gnu

PATH: /usr/lib/git-core:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin

Current directory: /home/khaled

Currently Logged: 1 user(s)

Available Shells:

# /etc/shells: valid login shells

/bin/sh

/bin/bash

/usr/bin/bash

/bin/rbash

/usr/bin/rbash

/bin/dash

/usr/bin/dash

/usr/bin/screen

EXIT