

Modes

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Modes

1. Normal

Move Cursor, screen

Change file

Switch to other mode

2. Insert/Replace

Text editing (only the input and delete is valid, cannot change the cursor position)

3. Visual

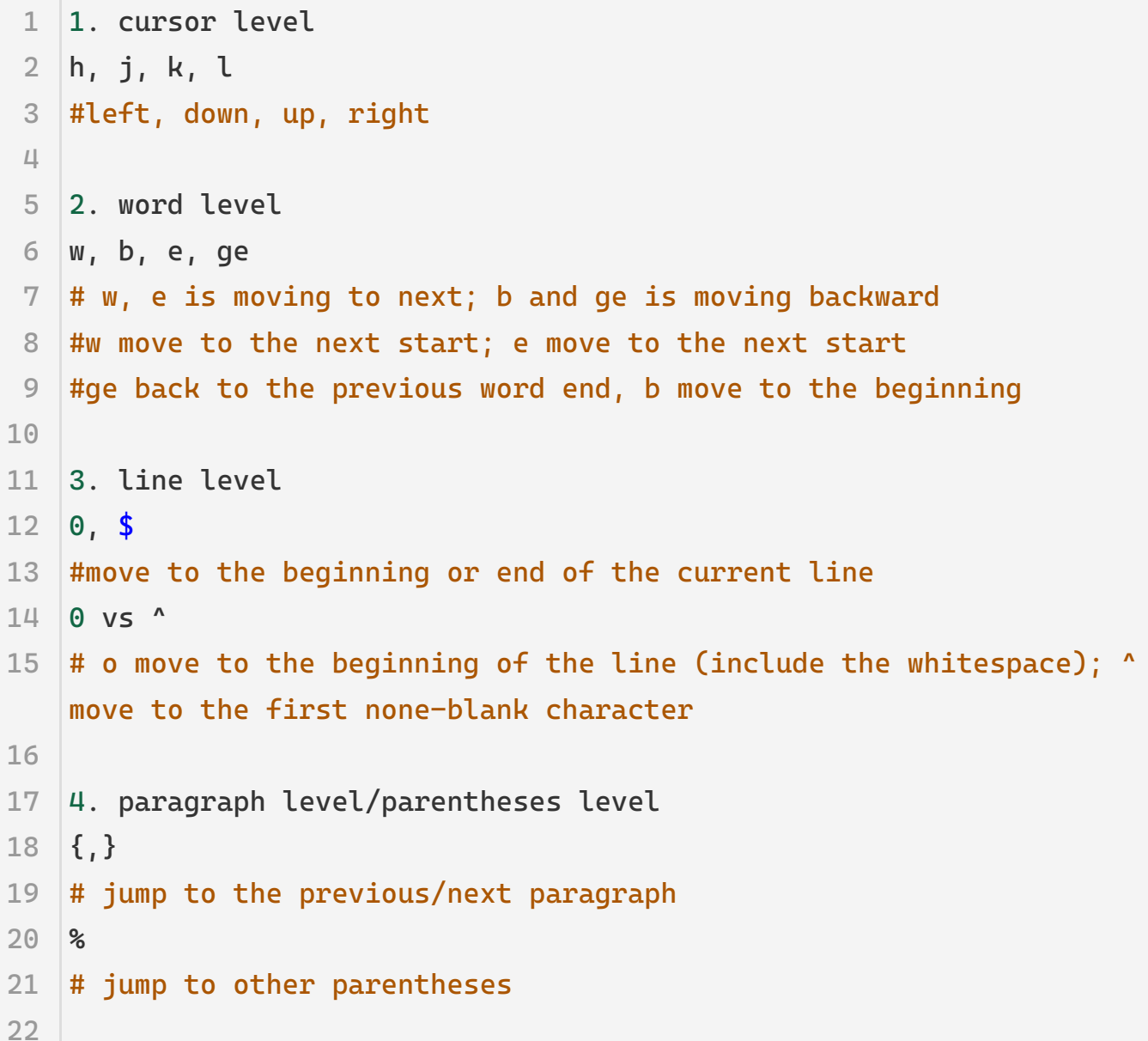
Select text -> visualize it

4. Command

Interact with Vim

Text Operations

H2 Movement



```
1 1. cursor level
2 h, j, k, l
3 #left, down, up, right
4
5 2. word level
6 w, b, e, ge
7 # w, e is moving to next; b and ge is moving backward
8 #w move to the next start; e move to the next start
9 #ge back to the previous word end, b move to the beginning
10
11 3. line level
12 0, $
13 #move to the beginning or end of the current line
14 0 vs ^
15 # o move to the beginning of the line (include the whitespace); ^
   move to the first none-blank character
16
17 4. paragraph level/parentheses level
18 {,}
19 # jump to the previous/next paragraph
20 %
21 # jump to other parentheses
22
```

```
23 4. page level
24 ctrl + u or d
25 # move half page up or down
26 ctrl + b or f
27 # move whole page backward or forward
28
29 5. file level
30 gg G # move to the bottom or the end of the file
31 [number] gg, G # jump to line
```

H2 Text Editing

```
1 i I # insert mode
2 # i insert at the current position, I insert at ^
3 a A # append
4 # a append at the current position, A insert at $
5 r R # replace
6 # r replace the current character, R enters the replace mode
7 # [Replace mode] delete results in undo the replacement
8
9 o O # insert a new line below or above this line
10
11 u # undo
12 ctrl + r # redo
13 . # repeat the last change
14
15 d D # deletion
16 c C # change mode (delete + insert)
17
18 x X #delete the current word
19
20 <<, >>, = # indent change
21 # del or insert or auto indent
22
```

```
23 y # copy the selected text
24 yy, Y # copy the whole line
25 -> p, P # paste the line above or below
26 yy$ or yy0 or yy^ #cursor to the position
27
28 p, P # paste after or before the cursor
29 gp, gP # paste and move the cursor after
```

Deletion Details (c -> change mode: do the deletion and then enter the insert mode)

```
1 d[movement] or c[movement]
2 d # the whole line
3 $ # the rest of the line
4 0 # the beginning till current position
5 w # to the beginning of the next word
6 b # to the beginning of the current word
7 h, j, k, l # left, down, up, right
8 [n] [movement]
```


H2 Text Searching and Replacing

```
1 1. search below
2 /[text] + n N # search text and then move to the next find or the
  previous find
3 2. search above
4 ?[text]
5
6 1. replace entire occurrence in entire file
```

```
7 %s/[old]/[new]/g
8 2. replace with confirmation
9 %s/[old]/[new]/gc
10 [options]
11 y, n, a[this and the remainings], q[quit],
12
13 :5,10s/old/new/g - replace in lines 5-10
14 :.,$s/old/new/g - replace from current line to end
15 : '<,'>s/old/new/g - replace in visual selection
16
17 char seach
18 f[char] #move to the next char in the current line
19 F[char] #move to the previous char in the current line
20 ; , # repeat the last F or f
```

H2 Visual mode (select text)

H3 Enter visual mode



```
1 v
2 # select @ character level
3 V
4 # select @ line level
5 ctrl + v
6 # select @ block level
```

H3 Navigation options

```
1 | h, j, k, l # move the cursor left, down, up, and right
2 | w, b # move the selection forward/backward on word level
3 | 0, $ # line start or line end
4 | gg, G # file start, end
```

H3 Operations

```
1 | d # delete the selected text
2 | y # yank the selected text
3 | c # change the selected text
4 | > # indent right
5 | < # indent left
6 | ~ # change case (First letter uppercase and the rest is lowercase)
7 | u # change to lower case
8 | U # change to upper case
```

H2 Special Operations

```
1 | vi[delimiter] # select inside the delimiter
2 | di[delimiter]
3 | ci[delimiter]
4 |
5 | va[delimiter] # select include the delimiter
6 | da[delimiter]
7 | ca[delimiter]
8 |
9 | [examples]
10 | viw - inner word
11 | vaw - around word
```

```
12 vi" - inner quotes
13 va" - around quotes
14 vi' - inner single quotes
15 va' - around single quotes
16 vi( - inner parentheses
17 va( - around parentheses
18 vi{ - inner curly braces
19 va{ - around curly braces
20 vi[ - inner square brackets
21 va[ - around square brackets
22 vit - inner HTML/XML tag
23 vat - around HTML/XML tag
```

Command Mode

```
1 :![command]
2 # external command
3
4 :sh
5 # open a shell
6
7 [n][actions/movements]
8 # do the action n times
```

H2 File Operations

H3 Open Command

```
1 | :e [filename] -> open multiple buffers at a time
```

H3 Quit or Save Command

```
1 | :q or ZQ # quit (only nothing changed)
2 | :q! # quit and disgard all changes
3 | :wq or ZZ # quit and save all changes
4 | :x #same as :wq
5
6 | :w # just save and not quit
7 | :w [filename] # save as a new file
8 | :wq! # force save and quit
```

H2 Buffer Operations

What is a buffer

- It's a temporary holding space for text
- Each file you open creates a new buffer
- You can have multiple buffers open at once


```
1 | :ls
2 | # list all the buffers
3 |
4 | :b [number]
5 | # switch buffer by number
6 | :bn or bp
7 | # switch to next buffer or previous buffer
8 |
9 | :bd [number] (2,5 or 2-5)
10 | # close the buffer with number
11 | :bw [number]
12 | # save + close the buffer with number
```

H2 Window Operations

H3 Window Split

```
1 | vim -o/-O [path_1] [path_2]
2 | # outside vim
3 |
4 | :sp, :vsp [filename]
5 | # split and open file
6 |
7 | :only display one window only
8 | :q close current window
```

H3 Navigate Cursor among window



1 | Ctrl + w + h, j, k, l